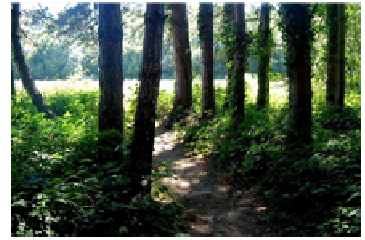
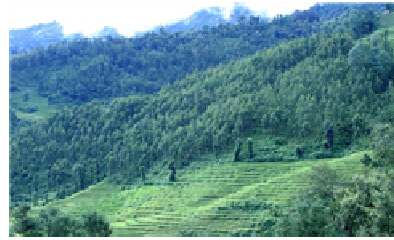




**Ministry of Forests and Soil Conservation  
REDD Implementation Center**

**Develop National Database of Basic Attributes of all Forest Management Regimes and Develop National REDD+ Information System or Registry**

**Contract No: (FCPF/REDD/S/QCBS-24)**



**Technical Working Document n. 7 to Final Report on:  
Database Infrastructure/Architecture of  
NFD and NFIS**

**April 2016**

**Authors:**

**Dr. Shrija Rajbahdnari**

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## **List of abbreviations**

MoFSC	Ministry of Forest and Soil Conservation
CF	Community Forest
CFUG	Community Forest User Group
LFUG	Leasehold Forest User Group
BZ	Buffer Zone
NFD	National Forest Database
NFIS	Nation Forest Information System
DFO	District Forest Office
DSCWM	Department of Soil Conservation and Watershed Management
CFMR	Community Forest management Regime
LHFMR	Leasehold Forestry Management Regime
CoFMR	Collaborative Forest Management Regime
PFMR	Private Forest Management Regime
RFMR	Religious Forest Management Regime
PrFMR	Protection Forest Management Regime

# 1. Introduction

## 1.1 Scope

The scope of this document is to provide an architectural overview of the National Forest Database (NFD) and National Forest Information System (NFIS), database design and available applications. In doing so this document will capture and convey the infrastructure and high-level database design which forms the basis for the key NFD NFIS system components and the External or public facing application.

## 1.2 Purpose

The purpose of the NFD is to provide the different forest management regimes at the MFoSC a repository of data on forest resources, forest management, carbon stocks, forest users and REDD+ activities. The NFD is designed to include data at VDC or range post level for data relating to forest inventory survey with tree level details, forest users and their activities. The web-based NFIS provides access to the NFD for analysis and reporting at national and sub-national levels. Data Entry Module is also integrated with the NFIS to facilitate submission of data by authorized staffs at district or departmental level.

The public facing NFIS application provides extensive query capabilities against the underlying database. The target audience for the NFD includes any person capable of accessing the Internet; however the primary users are those within the Ministry and its departments and divisions. Other users would be the forestry community and forestry research.

### 1.3 Assumptions and Dependencies

The following is a list of identified assumptions and dependencies for the NFD NFIS System.

Assumptions:

- ➔ The NFIS interface to the NFD database system will be constructed as a web site.
- ➔ The features intended for the departments and the public will be accessible on the Internet.
- ➔ System security will be from the NFIS interface based on authentication of users.  
System security will be based on authorization granted to departmental staffs for data entry and manipulation.

Dependencies:

- ➔ The NFD has no dependencies on any other existing systems in the departments.
- ➔ The NFD will store the integrated data taken from all the existing databases of all management regimes supported in the project and NFIS will utilize the data.
- ➔ The NFD will store data collected from the pilot western development region and NFIS will utilize the data.

### 1.4 Key objectives

The key objective of this document is to provide a high-level overview of the NFD data integration and system architecture and NFD data models to support the database design.

## 2. System Architecture

### 2.1 System Overview

#### 2.1.1 Methodology for Data Integration and Database Design

The methodology that will be used to achieve the above data integration task will be based on our understanding of the intended scope of work and deliverables, proposed time schedule of **approx. 5 months** for the program and on our collective and considerable experience in the articulation and implementation of work plans.

The proposed approach and methodology is focused on the outcome of development of NFD database and REDD+ Information System for Nepal (for example - control and management on carbon credits by visualizing carbon stocks and flows) and not just on the output of merely implementing improved database systems and processes and creating a National Forest database and REDD+ Information System.

The work will be rigorously focused on the implementation of the project, over the 5 months, working in conjunction with the participating stakeholders. The final 4 weeks of the project will focus on transitioning the IT system responsibilities to appropriately trained staff of the REDD+ team for ongoing coordination of implementation efforts.



Figure 1 Program and Project Management Framework

The tasks involved as per the ToR includes development of Component A: National Forest Database (NFD) and Component B: National REDD+ Information System. Even though they are two separate components the methodology we use needs to demonstrate how the output will be achieved for both and the inter-linkages acknowledged. Thus, the development process methodology needs to be sympathetic to understanding of the inter-linkages between the two components.

The proposed methodology consists of Program and Project Management framework [1] bringing together two distinct disciplines: Program and Project Management as shown in diagram above. Program Management and Project Management are often grouped together because of their intrinsic relationship. In this context, the Program Management will attempt to capture the synergies and value among project components i.e NFD and NFIS, whereas Project Management will be concerned with executing them individually in the most efficient and effective way possible.



Figure 2 Program and Project Management Framework Details

 - Check-points

### **Scope Phase (Two Weeks)**

The primary objective of the **Scope phase** will be to create and gain agreement on a project charter. The project charter will help establish the scope and objectives of role of Database expert as per the ToR, as well as other key variables, including the timeline

distribution, assumptions, constraints, roles & inter-linkages of roles with other team members and performance requirements associated with the project ToR.

Additional objectives of this phase will include:

- To identify key stakeholders and initiating communications:
- To initiate roles and responsibilities and inter-linkages of tasks with other team members
- To establish performance requirements and metrics.

### ***Organize phase (Two Weeks)***

The primary objective of the **Organize phase** will be to methodically create and establish plans and procedures for managing the project from its execution through to its close and transition.

This will be accomplished through the pursuit of **three objectives**:

- To create a project plan that efficiently and effectively addresses the project's ToR deliverables through combining the task distribution and timeline.
- To create the administrative plans that will provide the necessary supporting infrastructure.
- To create the project management plan, which will assist with project oversight.

### ***Execute phase (4 Months)***

The primary objective of the **Execute phase** will be to initiate the project work, as well as its administrative support plans and control processes/check-points.

This will be accomplished through the pursuit of **three objectives**:

- To secure required resources (access to all data and databases), infrastructure (server, networks, etc.). This may require some degree of administrative approval process to get access to the data and for procurement and setup of the needed infrastructure.



- To report on the inception.
- To define the project check-points.

### Agile Methodology

It is important that we make maximum and effective use of the significant quantity of technical detail and information for Implementation during both planning and throughout the implementation and operational phases by bringing in agile methodologies as shown in figure below rather than using the traditional waterfall methods.

### *Check phase (2 Weeks)*

The primary objective of the **Check phase** will be to accumulate progress and completion data for the project and create reporting that provides useful information to Team Leader and other project leadership to conduct effective monitoring.

This will be accomplished through the pursuit of **three objectives**:

- To accumulate work in progress and completion data from work completed on both components of NFD and NFIS as per the ToR defined for the experts in a timely and complete manner.
- To create transparent and useful progress reporting, which will be provided to Team Leader and other project leadership to support effective monitoring and decision making.

### *Rollout and Acceptance Testing*

Specific planning, design, set-up, operation and interpretation of tests require both the approved REDD cell specification of requirements. Accordingly, the database expert will provide following Acceptance Testing.

- (1) to define acceptance scenarios, specific tests, expected test results, and test plans,
- (2) to build test environments,
- (3) to conduct tests and compare expected results to actual results, and

(4) rerun tests as necessary to, eventually, obtain acceptance.

The acceptance testing shall include:

- Physical infrastructure at the main and back data centres;
- Fit out of the main and backup data centres;
- Technical infrastructure implementation at the main and backup data centres;
- Fail-over operations from main to backup and restoration of normal services;
- Implementation of NFD Data warehouse and NFD database;
- Customized and configured application software solution for all NFD business function sets (and any associated non-functional requirements)

The System Testing Methodology (STM) [2] that is proposed will address the complexity of software testing from organizational aspects, including people, processes, technology and risk management. The STM closely follows the software development life cycle and is organized into testing phases, which include Requirements, Design, Build, Validate, and Deploy and Maintain. A graphic of the STM Framework is shown below.

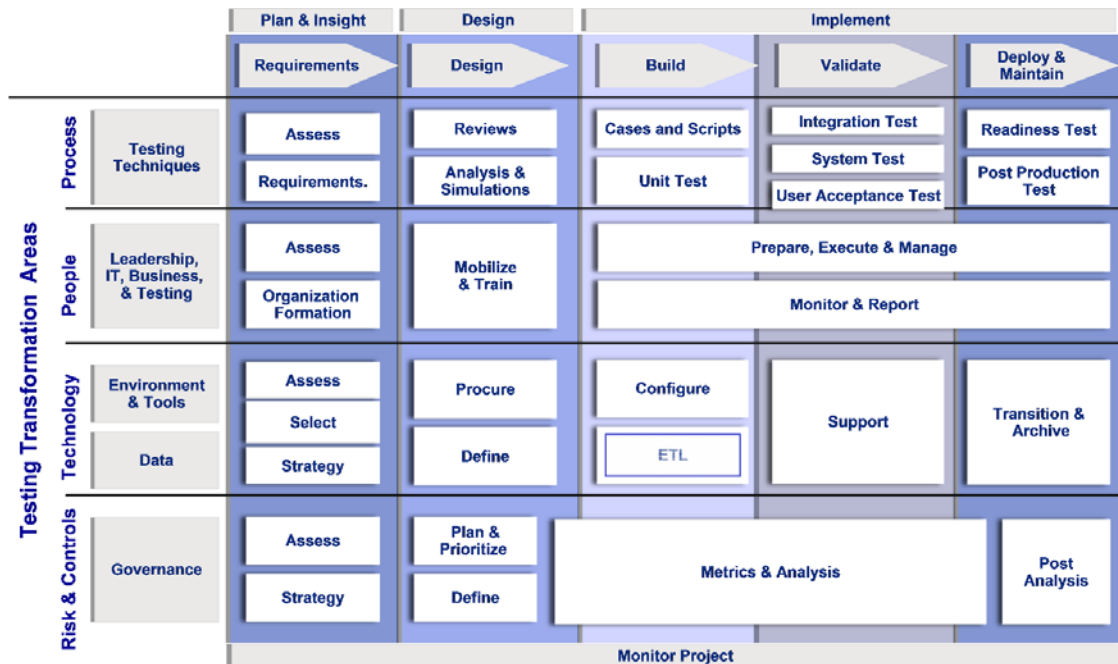


Figure 3 System Testing Methodology (STM) Framework

## STM Phases – Requirements, Design, Build, Validate and Deploy

The STM will be developed in relation to the software development life cycle (SDLC). Below is a high-level breakout of testing activities in each phase.

### Requirements

- Establish and align testing objectives and goals with vision
- Assess testing to identify improvements
- Develop Testing Strategy
- Develop Test Data Strategy
- Secure and mobilize internal and external testing resources
- Evaluate and select testing tools
- Design testing environment to support testing strategy

### Design

- Train resources on testing tools and techniques
- Procure testing tools and environment components
- Conduct software reviews and validations
- Develop, simulate and evaluate models based on software design

- Establish and help improve governance processes and procedures to be used in testing
- Define test data requirements

#### Build

- Conduct Unit Testing with static and dynamic testing techniques
- Continue to execute simulations and discuss recommendations with development team
- Develop metrics and reports and initiate testing progress and result reporting
- Configure and shakeout Integration, System and Non-Functional testing environments
- Develop test cases and scripts
- Perform Extract, Transform and Load activities

#### Validate

- Execute testing
  1. Integration
  2. System
  3. Performance and other non-functional testing
  4. User Acceptance Testing
- Conduct daily and status meetings with team
- Perform defect management and triage
- Monitor and control test execution

#### Deploy and Maintain

- Conduct Readiness Testing
- Execute Production Testing for patches and other system changes
- Conduct post-test analysis and capture lessons learned
- Perform ongoing monitoring and continue model simulations with production data
- Archive testing results as appropriate

### ***Transition phase (1 Month)***

The primary objectives of the **Transition phase** will be to administer the close of the project and execute the transition of the deliverables or ongoing operations to the appropriate parties within the **REDD cell team**.

This will be accomplished through the pursuit of **four objectives**:

- To create, communicate, and initiate close procedures in relation to the already existing Transition Plan.
- To conduct final performance analysis and conduct a lessons learned exercise to gather process improvement information.
- To dispose of infrastructure, release or disband resources, and close the tasks.
- To execute the Transition Plan and conduct a close meeting in order to formally communicate the end of the project.

The **final phase** will include administrative and engagement closure activities from Database perspective. The administrative activities will include finalizing the work papers (including handing over all access information such as username and passwords in sealed envelopes, etc.,) and handing over of performing review assessments. The key step in this phase is to formally communicate and conduct engagement closure for role of Database expert.

Significant benefits will come from major change, and significant change always brings uncertainty and potential for resistance. Effective change management will, therefore, need to be integral to any implementation strategy – to balance a focus on support and engagement for the individuals and stakeholders involved as a priority, alongside plans for the technical and physical rollout of any new equipment or systems. There will be many individuals directly affected by the introduction of the NFD and NFIS, and many more that will have some indirect interest in it. For this reason communications and change support (including capacity building and training) will need to be segmented and tailored to meet the needs of classes of stakeholders as well as the needs of the individuals involved.

Because of the diverse nature of NFD and NFIS impacts, the change and communications program elements of implementation will need to be delivered centrally as well at an individual department level of MoFSC. It is important we identify from each department within MoFSC some senior implementation change sponsors as part of the overall NFD and NFIS implementation plan. In summary, the successful introduction of NFD and NFIS will require timely and effective communications, engagement, marketing, training,

facilitation, monitoring and staff and technical support strategies. It will also require a mechanism for central and regular monitoring of the progress of change initiatives (and of implementation more generally) to ensure coordinated and effective use of available resources and to embed a “review and improve” approach to the changes. These will need to commence immediately – with engagement and communications to inform any final decisions about the functional and technical specifications and will need to continue for at least the first three months of implementation.

The Transition Change Implementation (TCI) methodology [3] proposed will implement the changes required (as per the detailed design and implementation plan) in order to prepare the client/REDD Cell for ‘go live’ of NFD and NFIS.

The ‘go-live’ is the point in a transformation when a series of coordinated initiatives for NFD and NFIS will affect real change for client/REDD Cell and stakeholders; in effect, at go-live the client/REDD Cell and stakeholder implementation change will be implemented and the organization will be operating under the new model/way of working. A great deal of work will have been undertaken before reaching ‘go live’, for example confirming that:

- The proposed changes are in line with the NFD and NFIS strategy.
- The change will deliver required benefits.
- The new business processes have been appropriately designed.

There is a risk of failure if the implementation phase is rushed or conducted ineffectively. Sustaining the change, and therefore realizing the full benefits, once attentions and focus have been diverted, post-transformation is also a challenge (for example when consultancy is disbanded).

TCI covers the components that directly influence the success of the implementation. Of these components, several occur before the go-live point, several are involved in the go-live itself and others relate to activity that occurs post go-live. This section will describe these activities and signpost readers to methods and other elements that cover these three stages in more detail.

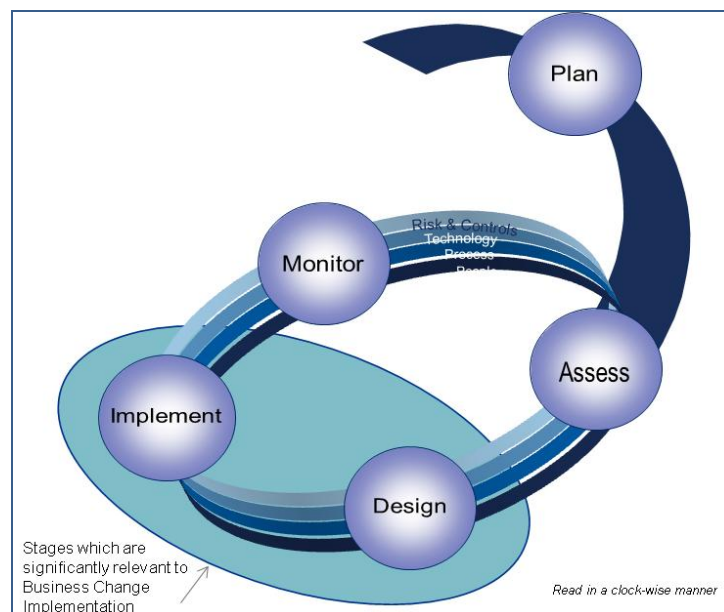
The main focus for TCI is:

- to implement the detailed program plan (covering all component initiatives) and make preparations for 'go-live' whilst ensuring that the organization is ready for the change
- to build client ownership for the change.

Given the importance of the go-live within a change program, as well as the extensive preparation and ongoing monitoring required, the start and end points of the TCI element should be set for approx. 3 days each month for the first 4 months with more days assigned in the last month of the project.

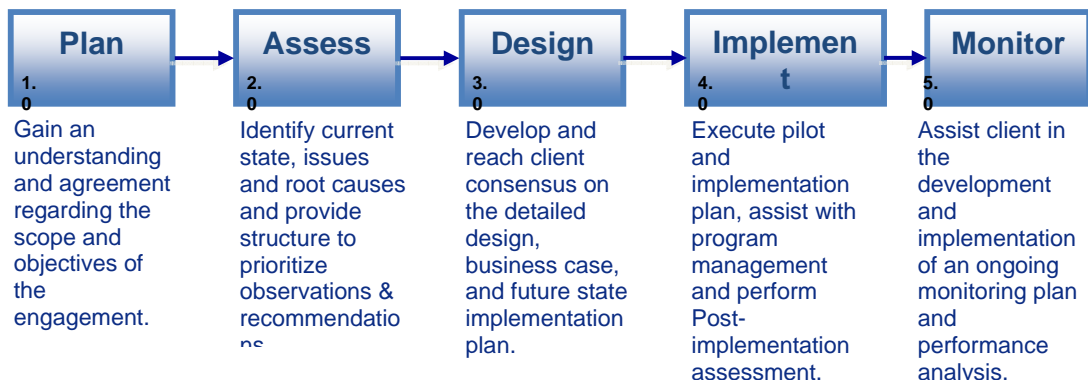
### **Transition Change Implementation Methodology**

The proposed Transition methodology will provide guidance in adoption of new processes, controls, and the implementation of new business processes to help achieve the objectives and performance improvement results.



*Figure 4 Transition Stages*

TCI stages: The TCI process has five phases:



The 'Implement' phase is the most relevant because it provides guidance on the activities required to implement a change program successfully:

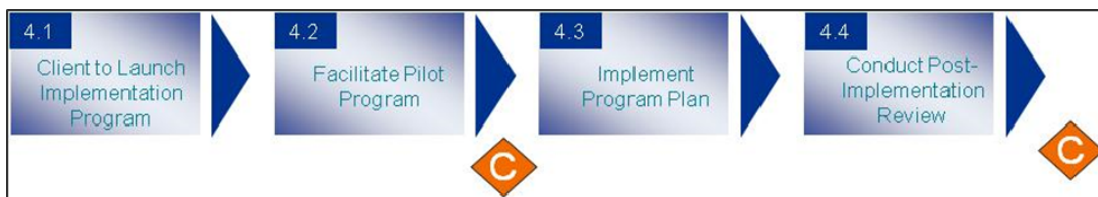


Figure 5 Implement phase overview

The TCI Methodology provides guidance for on the 'behavioral change' required for successful transition. The proposed new NFD and NFIS system will involve the adoption of new processes, the implementation of new business models to achieve performance improvements. The proposed Behavior Change Model will provide an overview of the TCI methodology's three stages (Analysis, Engagement, and Delivery), nine model elements and reflects the iterative nature of Behavior Change Model, for example, communication is shown as an ongoing activity that is required constantly with stakeholders:



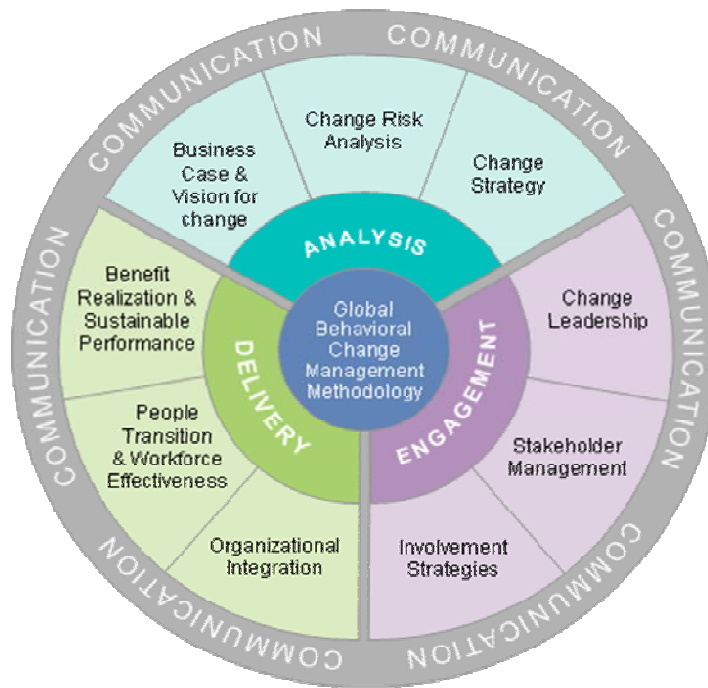


Figure 6 The Behaviour Change Model part of TCI Methodology

### **The Behavior Change Model part of TCI Methodology**

Behavior Change Model will be key in relation to implementing the required business change for NFD and NFIS implementation, because it will provides the tools and approaches required to help REDD Cell and MoFSC in general through the transformation stages. As such, the Engagement and Delivery segments of the Behavior Change Model wheel as shown in diagram above are the most relevant to TCI Methodology.

*Transition Change Management is about getting people ready, willing and able to continue sustainable benefit of NFD and NFIS.*

#### **2.1.1 Data Integration Architecture**

The data integration architecture is shown in Figure 7. As proposed at the inception phase, we performed the Extract, Transform and Load (ETL) process to achieve the aim of Data Integration. We designed the National Forest Database, which is a transactional database that also acts as a data warehouse holding data from all the sources in a structured manner. Data available from all the management regimes as shown in Figure 7 are being processed for ETL and stored in the NFD.

➔ **Data available:** The available data are the existing data collected at central level and data collected at DFOs of the pilot region. The data are in the form of files, spreadsheets and CSV files that consists of information on community user groups and social data, operational plan information, general forest information, location data on forest boundary, growing stock information, forest composition and inventory, forest product supply and demand and forest regeneration.

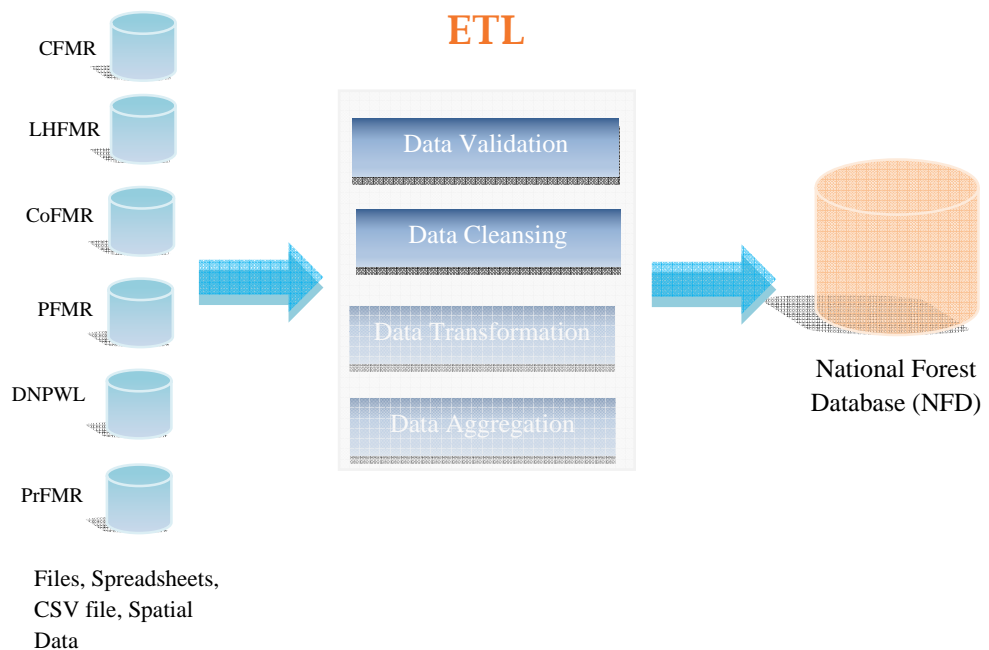


Figure 7 Data Integration Architecture

➔ **ETL Process:** The five steps of ETL process is described below:

Data Validation: Selecting only certain columns to load: (or selecting null columns not to load). For example, if the source data has two columns (also called attributes), operational plan approval date, and fiscal year, then the selection may take only approval date. Similarly, the selection mechanism may ignore all those records where approval date value is not present (approval date= null). (Strict validation may not be carried out in our case for missing data or null values as it is assumed that the records would be update by the authorised user/s using the data entry module).

Applying any form of simple or complex data validation. If validation fails, it may result in a full, partial or no rejection of the data, and thus none, some or all the data are handed over to the next step, depending on the rule design and exception handling. Many of the above transformations may result in exceptions, for example, when a code translation parses an unknown code in the extracted data. The validation may be strict (such as rejecting any address that does not CFUG code) or fuzzy (such as correcting records that partially match existing, known records).

Data Cleansing: Detecting and correcting (or removing) corrupt or inaccurate records from a record set, table, or database. This process will involve identifying incomplete, incorrect, inaccurate, irrelevant, etc. parts of the data and then replacing, modifying, or deleting this dirty data or coarse data.

Data cleansing may also involve activities like, harmonization of data, and standardization of data. For example, harmonization of short codes (na.pa etc.) to actual words (Municipality). Standardization of data will involve changing a reference data set to a new standard, example use of standard codes.

Data cleansing differs from data validation in that validation almost invariably means data is rejected from the system at entry and is performed at entry time, rather than on batches of data.

The actual process of data cleansing will involve removing typographical errors or validating and correcting values against a known list of entities.

Also data enhancement can be part of the process, where data is made more complete by adding related information, and this is a common data cleansing practice. For example, appending data entry/updating time and location information which may not be present in current databases.

*Data Transforming:* Translating coded values: (e.g., if the source system stores 1 for male and 2 for female, but the warehouse stores M for male and F for female). Splitting a column into multiple columns (e.g., converting VDC name and ward numbers (a comma-separated list), specified as a string in one column, into individual values in two different columns – e.g., splitting vdc name and ward numbers)

*Data Aggregating:* Aggregation (for example, rollup — summarizing multiple rows of data — total forest for each VDC, and for each District, etc.)

*Data Loading:* Load phase interacts with the data warehouse database, the constraints defined in the data warehouse schema as well as any triggers activated upon data load will apply (for example, uniqueness, mandatory fields), which also contribute to the overall data quality performance of the ETL process.

➔ ***National Forest Database (NFD):*** The National Forest Database is designed to hold data from all the management regimes in the MoFSC departments. The NFD is a relational database and thus the collected data items from all the management regimes are organised as a set of formally described tables and relationships. The data from NFD can be accessed or reassembled in many different ways without having to reorganize the database tables. NFD is easy to extend in future if necessary, as a new data category (tables, attribute) can be added without requiring to modify all existing application.

### 3. Data Model of NFD

This section describes the physical model of the NFD database. The physical model is described in terms of the database tables and data dictionary, the physical organization, database constraints and triggers, indexes.

#### 3.1 Database Design and Physical Data Models

Detailed Physical Data Models that will contain Table Models and Data Dictionary

- Name of each table and column (relational databases), or schema
- Domain values, physical data type, length and null ability of each column or field.
- Unique keys and indexes

Name	Value
Name	National Forest Database
Data Model	Physical

Detailed description of each table is provided in the document titled System Analysis and Design- Part 2.

#### 3.2 Data Dictionary



**tbl\_community\_forest\_usergroups**

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	tbl_community_forest_usergroups_pkey

*Columns Summary*

Name	Data Type	Constraints	Nullable	Description
group_code	varchar(255)	PK	No	
district_id	int4	FK (lu_districts.district_id)	Yes	
ilaka_id	int4	FK (lu_ilakas.ilaka_id)	Yes	
sector_id	int4	FK (lu_sectors.sector_id)	Yes	
group_name	varchar(255)		Yes	
altitude_meters	float8		Yes	
cf_area_hectare_hot	float8		Yes	
forest_handover_date	date		Yes	
forest_accessibility	varchar(255)		Yes	
forest_type_id	int4	FK (lu_forest_types.lu_forest_type_id)	Yes	
forest_condition_id	int4	FK (lu_forest_conditions.lu_forest_condition_id)	Yes	
vegetation_type_id	int4	FK (lu_vegetation_types.lu_vegetation_type_id)	Yes	
uploaded_by	varchar(100)		Yes	
uploaded_ip	varchar(100)		Yes	
uploaded_date	timestamp(6)		Yes	
remarks	varchar(255)		Yes	
notes	varchar(100)		Yes	

### Indices

tbl_community_forest_usergroups_district_id_idx			
Columns	district_id		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

tbl_community_forest_usergroups_const_cfug_fc_id_idx			
Columns	forest_condition_id		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

tbl_community_forest_usergroups_handover_date_idx			
Columns	forest_handover_date		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

tbl_community_forest_usergroups_const_cfug_sector_id_idx			
Columns	sector_id		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		


tbl_community_forest_usergroups_const_cfug_vt_id_idx			
Columns	vegetation_type_id		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		


tbl_community_forest_usergroups_ilaka_id_idx			
Columns	ilaka_id		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		




tbl_community_forest_usergroups_const_cfug_ft_id_idx			
Columns	forest_type_id		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		


#### *Relationships*


cf_blk_cfug_code : Relationship	
To	 tbl_cfug_blocks
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

exe_mem_cfug_code : Relationship	
To	 tbl_cfug_executives members
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1


Sync To Association	Yes
Data Model	Physical


fk_fip_cfug_code_id : Relationship	
To	 tbl_cfug_forest_inventories
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical


gsa_cfug_code : Relationship	
To	 tbl_cfug_growing_stock_analysis
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical


tts_cf_code : Relationship	
To	 tbl_cfug_total_timber_sales
Identifying	false
Subtype	false


On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

fk_tgs_cfug_code : Relationship	
To	 tbl_cfug_total_growing_stocks
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical


mem_cfug_code : Relationship	
To	 tbl_cfug_members
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical


<b>const_opr_cfug_code : Relationship</b>	
To	 tbl_cfug_op_revisions
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical


<b>ad_group_code : Relationship</b>	
To	 tbl_cfug_addresses
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical

<b>eco_cf_code : Relationship</b>	
To	 tbl_cfug_ecosystem_services
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*


From Multiplicity	1
Sync To Association	Yes
Data Model	Physical


fk_fti_cfug_code : Relationship	
To	 tbl_cfug_fallen_tr_inventories
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical


dem_sup_cfug_code : Relationship	
To	 tbl_cfug_fp_demand_supply
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical


cfug_code : Relationship	
To	 tbl_cfug_annuals
Identifying	false


Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

cccam_cf_code : Relationship	
To	 tbl_cfug_climate_change_adap_measures
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical


bios_cf_code : Relationship	
To	 tbl_cfug_biodiversity_status
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical


<b>fmsa_cfug_code : Relationship</b>	
To	 tbl_cfug_fms_activity_expenses
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical


<b>op_cfug_code : Relationship</b>	
To	 tbl_cfug_operational_plans
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical

<b>tm_cfug_code : Relationship</b>	
To	 tbl_cfug_total_members
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*

From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical


iga_cf_code : Relationship	
To	 tbl_cfug_income_gen_activities
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical


income_cf_code : Relationship	
To	 tbl_cfug_incomes
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical


for_comp_cfug_code : Relationship	
To	 tbl_cfug_forest_compositions
Identifying	false





Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

merged_user_group_id : Relationship	
To	 tbl_cfug_mergers
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical


cba_cf_code : Relationship	
To	 tbl_cfug_capacity_building_activities
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical


fpa_cfug_code : Relationship	
To	 tbl_cfug_forest_protection_activities
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical


cftp_cf_code : Relationship	
To	 tbl_cfug_total_timber_productions
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical

bacc_cf_code : Relationship	
To	 tbl_cfug_bank_accounts
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*


From Multiplicity	1
Sync To Association	Yes
Data Model	Physical


fk_hwc_cf_code : Relationship	
To	 tbl_cfug_hu_liv_wildlife_conflicts
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical


fk_nfac_cf_code : Relationship	
To	 tbl_cfug_negative_forest_area_changes
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical


comda_cf_code : Relationship	
To	 tbl_cfug_community_dev_activities
Identifying	false


Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

fk_bz_cfug_code : Relationship	
To	 tbl_bufferzone_cfugs
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical


foof_cfug_code : Relationship	
To	 tbl_cfug_forest_offences
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical


fpps_cfug_code : Relationship	
To	 tbl_cfug_non_timber_productions
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical


tps_cfug_code : Relationship	
To	 tbl_cfug_timber_productions
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical


total_hh_cfug_code : Relationship	
To	 tbl_cfug_total_households
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*


From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical


hh_cfug_code : Relationship	
To	 tbl_cfug_households
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical


fk_op_regen_cfug_code : Relationship	
To	 tbl_cfug_regeneration_status
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical


fk_pfac_cf_code : Relationship	
To	 tbl_cfug_positive_forest_area_changes
Identifying	false

Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical
<b>const_cfug_district_id : Relationship</b>	
From	 lu_districts
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical

<b>const_cfug_vegetation_type_id : Relationship</b>	
From	 lu_vegetation_types
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical


const_cfug_ilaka_id : Relationship	
From	 lu_ilakas
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical

const_cfug_forest_condition_id : Relationship	
From	 lu_forest_conditions
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical

const_cfug_sector_id : Relationship	
From	 lu_sectors
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*



From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical

const_cfug_forest_type_id : Relationship	
From	 lu_forest_types
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical

 **tbl\_cfug\_annuals**

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	tbl_cfug_annuals_pkey

*Columns Summary*

Name	Data Type	Constraints	Nullable	Description
cf_annual_id	int4	PK	No	
cf_usergroup_code	varchar(255)	FK (tbl_community_forest_usergroups.group_code)	No	

cf_area_hectare	float8		Yes	
estimated_growing_stock	numeric(10)		Yes	
estimated_growth_rates	numeric(10)		Yes	
estimated_aac	numeric(10)		Yes	
lu_forest_type_id	int4	FK (lu_forest_types.lu_forest_type_id)	Yes	
lu_forest_condition_id	int4	FK (lu_forest_conditions.lu_forest_condition_id)	Yes	
lu_vegetation_type_id	int4	FK (lu_vegetation_types.lu_vegetation_type_id)	Yes	
fiscal_year_reporting	varchar(255)		Yes	
prepared_by_name	varchar(255)		Yes	
prepared_by_date	date		Yes	
chair_person_name	varchar(255)		Yes	
chair_person_date	date		Yes	

### Indices


tbl_cfug_annuals_lu_forest_type_id_idx			
Columns	lu_forest_type_id		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		


tbl_cfug_annuals_lu_vegetation_type_id_idx			
Columns	lu_vegetation_type_id		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		


tbl_cfug_annuals_cfug_code_idx			
Columns	cf_usergroup_code		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

tbl_cfug_annuals_lu_forest_condition_id_idx			
Columns	lu_forest_condition_id		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		


### Relationships

const_ad_vegetation_type_id : Relationship	
From	 lu_vegetation_types
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical

const_ad_forest_type_id : Relationship	
From	 lu_forest_types
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical

cfug_code : Relationship	
From	 tbl_community_forest_usergroups
Identifying	false
Subtype	false
On Delete	No action
On Update	No action

To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

const_ad_forest_condition_id : Relationship	
From	 lu_forest_conditions
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical

 **tbl\_cfug\_mergers**

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	tbl_cfug_mergers_pkey

*Columns Summary*


Name	Data Type	Constraints	Nullable	Description
id	int4	PK	No	
group_code_new	varchar(255)	FK (tbl_community_forest_usergroups.group_code)	Yes	

merged_cfug_code	varchar(255)		Yes	
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*Indices*

tbl_cfug_mergers_merged_user_group_id_idx			
Columns	group_code_new		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

*Relationships*

merged_user_group_id : Relationship	
From	 tbl_community_forest_usergroups
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical

 **tbl\_cfug\_addresses**

Name	Value
Data Model	Physical
Schema	public

Primary Key Constraint Name	tbl_cfug_addresses_pkey
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*Columns Summary*


Name	Data Type	Constraints	Nullable	Description
cfug_vdc_id	int4	PK	No	
user_group_code	varchar(255)	FK (tbl_community_forest_user_groups.group_code)	Yes	
vdc_id	int4	FK (lu_vdcs.vdc_id)	Yes	
ward_numbers	varchar(255)		Yes	
village_name	varchar(255)		Yes	

### Indices

tbl_cfug_addresses_vdc_id_idx			
Columns	vdc_id		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		


tbl_cfug_addresses_ad_group_code_idx			
Columns	user_group_code		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

### Relationships

ad_group_code : Relationship	
From	 tbl_community_forest_usergroups
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1



Sync To Association	Yes
Data Model	Physical

const_cf_vdc_id : Relationship	
From	 lu_vdcs
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical

 **tbl\_cfug\_members**

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	tbl_cfug_members_pkey

*Columns Summary*

Name	Data Type	Constraints	Nullable	Description
cfug_member_id	int4	PK	No	
cf_usergroup_code	varchar(255)	FK (tbl_community_forest_usergroups.group_code)	Yes	
member_position	varchar(255)		Yes	
name	varchar(255)		Yes	

gender	varchar(45)		Yes	
social_category_id	int4	FK (lu_social_categories.social_category_id)	Yes	
wellbeing_status_id	int4	FK (lu_wellbeing_status.wellbeing_status_id)	Yes	
occupation	varchar(255)		Yes	
date_collected	date		Yes	


*Indices*


tbl_cfug_members_social_category_id_idx			
Columns	social_category_id		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

tbl_cfug_members_mem_cfug_code_idx			
Columns	cf_usergroup_code		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		


tbl_cfug_members_wellbeing_status_id_idx		
Columns	wellbeing_status_id	
	Project Management	Name
Unique	false	
Bitmap	false	
Fulltext	false	
Index Name Pattern	{ table_name }	
Clustered	Non-clustered	

### *Relationships*

mem_cfug_code : Relationship	
From	 tbl_community_forest_usergroups
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical

mem_wellbeing_status_id : Relationship	
From	 lu_wellbeing_status
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1

Sync To Association	Yes
Data Model	Physical

mem_social_category_id : Relationship	
From	 lu_social_categories
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical

 **tbl\_cfug\_households**

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	tbl_cfug_households_pkey

*Columns Summary*

Name	Data Type	Constraints	Nullable	Description
cfug_household_id	int4	PK	No	
user_group_code	varchar(255)	FK (tbl_community_forest_usergroups.group_code)	Yes	
social_category_id	int4	FK (lu_social_categories.social)	Yes	


		_category_id)		
num_of_poor_hh	int4		Yes	
num_of_medium_hh	int4		Yes	
num_of_wealthy_hh	int4		Yes	
remarks	varchar(255)		Yes	
date_collected	date		Yes	

### Indices


tbl_cfug_households_lu_social_category_id_idx			
Columns	social_category_id		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

tbl_cfug_households_hh_cfug_code_idx			
Columns	user_group_code		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

### Relationships

const_cfhh_s_category_id : Relationship	
From	 lu_social_categories

Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical

hh_cfug_code : Relationship	
From	 tbl_community_forest_usergroups
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical


 **tbl\_cfug\_executives members**


Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	tbl_cfug_executives members_pkey


*Columns Summary*

Name	Data Type	Constraints	Nullable	Description
cfug_exe_mem_id	int4	PK	No	
cfug_code	varchar(255)	FK (tbl_community_forest_usergroups.group_code)	Yes	
chair_social_cat_id	int4	FK (lu_social_categories.social_category_id)	Yes	
co_chair_social_cat_id	int4	FK (lu_social_categories.social_category_id)	Yes	
secretary_social_cat_id	int4	FK (lu_social_categories.social_category_id)	Yes	
co_secretary_social_cat_id	int4	FK (lu_social_categories.social_category_id)	Yes	
treasurer_social_cat_id	int4	FK (lu_social_categories.social_category_id)	Yes	
num_members_brahmin_cheetri	int4		Yes	
num_members_janajati	int4		Yes	
num_members_dalit	int4		Yes	
num_members_others	int4		Yes	
num_members_poor	int4		Yes	
num_members_female	int4		Yes	
fiscal_year	varchar(225)		Yes	

### Relationships


cosect_cat_id : Relationship	
From	 lu_social_categories
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical


exe_mem_cfug_code : Relationship	
From	 tbl_community_forest_usergroups
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical

tres_cat_id : Relationship	
From	 lu_social_categories
Identifying	false
Subtype	false
On Delete	No action
On Update	No action



To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical

chair_cat_id : Relationship	
From	 lu_social_categories
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical

sect_cat_id : Relationship	
From	 lu_social_categories
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical

cochair_cat_id : Relationship	
From	 lu_social_categories

Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical



#### tbl\_cfug\_total\_members

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	tbl_cfug_total_members_pkey

#### Columns Summary


Name	Data Type	Constraints	Nullable	Description
total_members_id	int4	PK	No	
user_group_code	varchar(255)	FK (tbl_community_forest_user_groups.group_code)	Yes	
num_of_total_members	int4		Yes	
num_of_men_members	int4		Yes	
num_of_women_members	int4		Yes	
num_brahmin_cheetri_members	int4		Yes	
num_of_janajati_members	int4		Yes	
num_of_dalit_members	int4		Yes	

num_of_other_members	int4		Yes	
num_of_households	int4		Yes	
num_of_woman_headed_household	int4		Yes	
num_of_total_hh_associated_with_other_cfug	int4		Yes	
fiscal_year	vvarchar(255)		Yes	
date_collected	date		Yes	

### Indices

tbl_cfug_total_members_cfug_code_idx			
Columns	user_group_code		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

### Relationships

tm_cfug_code : Relationship	
From	 tbl_community_forest_usergroups
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes

Data Model	Physical
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**tbl\_cfug\_total\_households**

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	tbl_cfug_total_households_pkey

*Columns Summary*


Name	Data Type	Constraints	Nullable	Description
total_hh_id	int4	PK	No	
cfug_code	varchar(255)	FK (tbl_community_forest_user_groups.group_code)	Yes	
num_poor_hhs	int4		Yes	
num_medium_hhs	int4		Yes	
num_wealthy_hhs	int4		Yes	
num_brahmin_cheetri_hhs	int4		Yes	
num_janajati_hhs	int4		Yes	
num_dalit_hhs	int4		Yes	
num_other_hhs	int4		Yes	
date_collected	date		Yes	

*Indices*

tbl_cfug_total_households_total_hh_cfug_code_idx	
Columns	cfug_code

	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

### Relationships

total_hh_cfug_code : Relationship	
From	 tbl_community_forest_usergroups
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical

### tbl\_cfug\_operational\_plans

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	tbl_cfug_operational_plans_pkey

### Columns Summary


Name	Data Type	Constraints	Nullable	Description
operational_plan_id	int4	PK	No	
usergroup_code	varchar(255)	FK	Yes	


		(tbl_community_forest_usergroups.group_code)		
op_approval_date_hot	varchar(255)		Yes	
op_approval_year	int4		Yes	
op_period_hot	int4		Yes	
gs_sample_plot_size_hot	float8		Yes	
remarks	text		Yes	

### Indices

tbl_cfug_operational_plans_cfug_code_idx			
Columns	usergroup_code		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

### Relationships

const_opr_op_id : Relationship	
To	 tbl_cfug_op_revisions
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes

Data Model	Physical
<b>op_cfug_code : Relationship</b>	
From	 tbl_community_forest_usergroups
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical

 **tbl\_cfug\_op\_revisions**

Name	Value	
Data Model	Physical	
Schema	public	
Primary Key Constraint Name	tbl_cfug_op_revisions_pkey	
Project Management	Name	Value
	Author	Lenovo
	Create Date Time	Aug 22, 2015 12:18:08 AM
	Last Modified	Aug 22, 2015 12:47:19 AM

*Columns Summary*

Name	Data Type	Constraints	Nullable	Description
op_revision_id	int4	PK	No	
operational_plan_id	int4	FK (tbl_cfug_operational_plans.operational_p	Yes	

		lan_id)		
cfug_code	varchar(255)	FK (tbl_community_forest_usergroups.group_code)	Yes	
op_revision_date	date		Yes	
op_revision_year	int4		Yes	
op_revision_fiscalyear	varchar(100)		Yes	
op_period	int4		Yes	
total_num_households	int4		Yes	
number_men_members	int4		Yes	
number_women_members	int4		Yes	

*Indices*


tbl_cfug_op_revisions_const_opr_cfug_code_idx			
Columns	cfug_code		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{table_name}		
Clustered	Non-clustered		


tbl_cfug_op_revisions_operational_plan_id_idx			
Columns	operational_plan_id		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		




Index Name Pattern	{ table_name }
Clustered	Non-clustered

### *Relationships*


<b>dem_sup_op_rev : Relationship</b>	
To	 tbl_cfug_fp_demand_supply
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

<b>fk_fc_op_rev : Relationship</b>	
To	 tbl_cfug_forest_compositions
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical


<b>gsa_op_rev : Relationship</b>	
To	 tbl_cfug_growing_stock_analysis
Identifying	false


Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

<b>fk_regen_op_rev_id : Relationship</b>	
--	--

To	 tbl_cfug_regeneration_status
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

<b>const_opr_cfug_code : Relationship</b>	
---	--

From	 tbl_community_forest_usergroups
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical

const_opr_op_id : Relationship	
From	 tbl_cfug_operational_plans
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical
Project Management	

 **tbl\_cfug\_blocks**

Name	Value	
Data Model	Physical	
Schema	public	
Primary Key Constraint Name	tbl_cfug_blocks_pkey	
Project Management	Name	Value
	Author	Lenovo
	Create Date Time	Aug 22, 2015 12:18:08 AM
	Last Modified	Aug 22, 2015 12:47:19 AM

*Columns Summary*


Name	Data Type	Constraints	Nullable	Description
cf_block_id	int4	PK	No	
cf_usergroup_code	varchar(255)	FK (tbl_community_forest_usergroups.group_code)	No	


cf_block_number	int4		Yes	
cf_block_area	numeric(10)		Yes	
num_of_sample_plots	int4		Yes	

#### Indices


tbl_cfug_blocks_cf_blk_cfug_code_idx			
Columns	cf_usergroup_code		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		


#### Relationships



fk_regen_cf_blk_id : Relationship	
To	 tbl_cfug_regeneration_status
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical

cf_block_id : Relationship	
To	 tbl_cfug_growing_stock_analysis
Identifying	false

Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical

fk_fti_cf_block_id : Relationship	
To	 tbl_cfug_fallen_tr_inventories
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

fk_fip_cf_block_id : Relationship	
To	 tbl_cfug_forest_inventories
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

const_cffc_cf_block_id : Relationship	
To	 tbl_cfug_forest_compositions
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical
cf_blk_cfug_code : Relationship	
From	 tbl_community_forest_usergroups
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

 **tbl\_cfug\_forest\_inventories**

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	tbl_cfug_forest_inventories_pkey

*Columns Summary*

Name	Data Type	Constraints	Nullable	Description
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sample_plot_id	int4	PK	No	
cfug_code	varchar(255)	FK (tbl_community_forest_user groups.group_ code)	No	
cf_block_id	int4	FK (tbl_cfug_bloc ks.cf_block_i d)	No	
tree_species_id	int4	FK (lu_tree_speci es.tree_specie s_id)	No	
sample_plot_number	int4		Yes	
regeneration_number	int4		Yes	
sapling_number	int4		Yes	
pole_diameter	float8		Yes	
tree_diameter	float8		Yes	
pole_dbh_cm	int4		Yes	
pole_height_meters	numeric(10)		Yes	
tree_dbh_cm	int4		Yes	
tree_height_meters	numeric(10)		Yes	
remarks	varchar(255)		Yes	

### Indices


tbl_cfug_forest_inventories_fk_fip_cfug_code_id_idx			
Columns	cfug_code		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		

Clustered	Non-clustered
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tbl_cfug_forest_inventories_fk_fip_tree_sp_id_idx			
Columns	tree_species_id		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		


tbl_cfug_forest_inventories_fk_fip_cf_block_id_idx			
Columns	cf_block_id		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		


*Relationships*

fk_fip_cfug_code_id : Relationship	
From	 tbl_community_forest_usergroups
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*



From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

fk_fip_tree_sp_id : Relationship	
From	 lu_tree_species
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

fk_fip_cf_block_id : Relationship	
From	 tbl_cfug_blocks
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

 [tbl\\_cfug\\_fallen\\_tr\\_inventories](#)

Name	Value
Data Model	Physical
Schema	public

Primary Key Constraint Name	tbl_cfug_fallen_tr_inventories_pkey
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*Columns Summary*

Name	Data Type	Constraints	Nullable	Description
sample_plots_fallen_tree_id	int4	PK	No	
cfug_code	varchar(255)	FK (tbl_community_forest_usergroups.group_code)	No	
cf_block_id	int4	FK (tbl_cfug_blocks.cf_block_id)	No	
tree_species_id	int4	FK (lu_tree_species.tree_species_id)	No	
sample_plot_number	int4		Yes	
fallen_pole_dbh	int4		Yes	
fallen_pole_height_meter	numeric(10)		Yes	
fallen_tree_dbh	int4		Yes	
fallen_tree_height_meter	numeric(10)		Yes	
remarks	varchar(255)		Yes	
fiscal_year	varchar(255)		Yes	

*Indices*


tbl_cfug_fallen_tr_inventories_cf_block_id_idx			
Columns	cf_block_id		
	Project Management	Name	Value
Unique	false		

Bitmap	false
Fulltext	false
Index Name Pattern	{ table_name }
Clustered	Non-clustered


tbl_cfug_fallen_tr_inventories_fk_fti_cfug_code_idx			
Columns	cfug_code		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		


tbl_cfug_fallen_tr_inventories_fk_fti_tree_sp_id_idx			
Columns	tree_species_id		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

#### *Relationships*

fk_fti_cfug_code : Relationship	
From	 tbl_community_forest_usergroups
Identifying	false
Subtype	false

On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

fk_fti_tree_sp_id : Relationship	
From	 lu_tree_species
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

fk_fti_cf_block_id : Relationship	
From	 tbl_cfug_blocks
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical



### tbl\_cfug\_forest\_compositions

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	tbl_cfug_forest_compositions_pkey

### Columns Summary

Name	Data Type	Constraints	Nullable	Description
cf_composition_id	int4	PK	No	
cf_usergroup_code	varchar(255)	FK (tbl_community_forest_usergroups.group_code)	No	
tree_species_id	int4		No	
op_revision_id	int4	FK (tbl_cfug_op_revisions.op_revision_id)	No	
cf_block_id	int4	FK (tbl_cfug_blocks.cf_block_id)	Yes	
pole_qty_per_hectare	numeric(10)		Yes	
pole_composition_percentage	numeric(10)		Yes	
tree_qty_per_hectare	numeric(10)		Yes	
tree_composition_percentage	numeric(10)		Yes	
remarks	varchar(255)		Yes	
date_collected	date		Yes	
fiscal_year	varchar(255)		Yes	


*Indices*


tbl_cfug_forest_compositions_for_comp_cfug_code_idx			
Columns	cf_usergroup_code		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		


tbl_cfug_forest_compositions_fk_fc_op_rev_idx			
Columns	op_revision_id		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

tbl_cfug_forest_compositions_cf_block_id_idx			
Columns	cf_block_id		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

### Relationships

fk_fc_op_rev : Relationship	
From	 tbl_cfug_op_revisions
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

for_comp_cfug_code : Relationship	
From	 tbl_community_forest_usergroups
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

const_cffc_cf_block_id : Relationship	
From	 tbl_cfug_blocks
Identifying	false
Subtype	false
On Delete	No action
On Update	No action

To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical



#### tbl\_cfug\_growing\_stock\_analysis

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	tbl_cfug_growing_stock_analysis_pkey

#### *Columns Summary*

Name	Data Type	Constraints	Nullable	Description
gs_status_id	int4	PK	No	
cf_usergroup_code	varchar(255)	FK (tbl_community_forest_usergroups.group_code)	No	
op_revision_id	int4	FK (tbl_cfug_op_revisions.op_revision_id)	No	
cf_block_id	int4	FK (tbl_cfug_blocks.cf_block_id)	Yes	
num_seedling_per_hectare	numeric(10)		Yes	
num_sapling_per_hectare	numeric(10)		Yes	
num_pole_per_hectare	numeric(10)		Yes	
num_tree_per_hectare	numeric(10)		Yes	
tree_stem_vol_meter_per	numeric(10)		Yes	



_hec				
pole_stem_vol_meter_per_hec	numeric(10)		Yes	
total_stem_vol_meter_per_hec	numeric(10)		Yes	
tree_stem_vol_cft_per_hec	numeric(10)		Yes	
pole_stem_vol_cft_per_hec	numeric(10)		Yes	
total_stem_vol_cft_per_hec	numeric(10)		Yes	
data_collection_date	date		Yes	
fiscal_year	varchar(255)		Yes	

*Indices*


tbl_cfug_growing_stock_analysis_gsa_cfug_code_idx			
Columns	cf_usergroup_code		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		


tbl_cfug_growing_stock_analysis_gsa_op_rev_idx			
Columns	op_revision_id		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		

Clustered	Non-clustered
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tbl_cfug_growing_stock_analysis_cf_block_id_idx			
Columns	cf_block_id		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

#### *Relationships*

cf_block_id : Relationship	
From	 tbl_cfug_blocks
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical

gsa_cfug_code : Relationship	
From	 tbl_community_forest_usergroups
Identifying	false
Subtype	false
On Delete	No action
On Update	No action

To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

gsa_op_rev : Relationship	
From	 tbl_cfug_op_revisions
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

 [tbl\\_cfug\\_fp\\_demand\\_supply](#)

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	tbl_cfug_fp_demand_supply_pkey

*Columns Summary*

Name	Data Type	Constraints	Nullable	Description
fp_supply_demand_id	int4	PK	No	
cf_usergroup_code	varchar(255)	FK (tbl_community_forest_usergroups.group_code)	No	

op_revision_id	int4	FK (tbl_cfug_op_revisions.op_revision_id)	No	
lu_forest_product_id	int4		No	
total_demand_quantity	numeric(10)		Yes	
supply_quantity_cf	numeric(10)		Yes	
supply_quantity_privatef	numeric(10)		Yes	
supply_quantity_leaseholdf	numeric(10)		Yes	
supply_quantity_govmf	numeric(10)		Yes	
supply_quantity_collaborativef	numeric(10)		Yes	
supply_demand_status	varchar(255)		Yes	
alternative_supply_sources	varchar(255)		Yes	
data_collection_date	date		Yes	
fiscal_year	varchar(255)		Yes	


*Indices*


tbl_cfug_fp_demand_supply_dem_sup_cfug_code_idx			
Columns	cf_usergroup_code		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

tbl_cfug_fp_demand_supply_dem_sup_op_rev_idx	
Columns	op_revision_id

	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

### *Relationships*

<b>dem_sup_cfug_code : Relationship</b>	
From	 tbl_community_forest_usergroups
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

<b>dem_sup_op_rev : Relationship</b>	
From	 tbl_cfug_op_revisions
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical



### tbl\_cfug\_regeneration\_status

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	tbl_cfug_regeneration_status_pkey

### Columns Summary

Name	Data Type	Constraints	Nullable	Description
regen_id	int4	PK	No	
cf_usergroup_code	varchar(255)	FK (tbl_community_forest_usergroups.group_code)	No	
tree_species_id	int4	FK (lu_tree_species.tree_species_id)	No	
op_revision_id	int4	FK (tbl_cfug_operations.op_revision_id)	No	
cf_block_id	int4	FK (tbl_cfug_blocks.cf_block_id)	Yes	
seedling_per_hectare	numeric(10)		Yes	
sapling_per_hectare	numeric(10)		Yes	
regeneration_per_hectare	numeric(10)		Yes	
regeneration_status	varchar(100)		Yes	
remarks	text		Yes	
data_collection_date	date		Yes	
fiscal_year	varchar(255)		Yes	

*Indices*


tbl_cfug_regeneration_status_op_regen_cfug_code_idx			
Columns	cf_usergroup_code		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		


tbl_cfug_regeneration_status_fk_lu_tree_sp_id_idx			
Columns	tree_species_id		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

tbl_cfug_regeneration_status_fk_regen_op_rev_id_idx			
Columns	op_revision_id		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

tbl_cfug_regeneration_status_cf_block_id_idx			
Columns	cf_block_id		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		


#### *Relationships*


fk_regen_cf_blk_id : Relationship	
From	 tbl_cfug_blocks
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical

fk_regen_tree_sp_id : Relationship	
From	 lu_tree_species
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*



From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

fk_op_regen_cfug_code : Relationship	
From	 tbl_community_forest_usergroups
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

fk_regen_op_rev_id : Relationship	
From	 tbl_cfug_op_revisions
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

 [tbl\\_cfug\\_timber\\_productions](#)

Name	Value
Data Model	Physical

Schema	public
Primary Key Constraint Name	tbl_cfug_timber_productions_pkey

*Columns Summary*

Name	DataType	Constraints	Nullable	Description
cfug_tim_prod_id	int4	PK	No	
cf_usergroup_code	varchar(255)	FK (tbl_community_forest_usergroups.group_code)	No	
tree_species_id	int4	FK (lu_tree_species.tree_species_id)	No	
annual_allowable_cut	numeric(10)		Yes	
qty_unit	varchar(45)		Yes	
qty_produced_silvicultural_activities	numeric(10)		Yes	
qty_produced_thinning	numeric(10)		Yes	
qty_produced_others	numeric(10)		Yes	
total_qty_produced	numeric(10)		Yes	
remarks_production	varchar(45)		Yes	
data_collection_date	date		Yes	
fiscal_year	varchar(100)		Yes	


*Indices*

tbl_cfug_timber_productions_tps_cfug_code_idx			
Columns	cf_usergroup_code		
	Project Management	Name	Value
Unique	false		
Bitmap	false		


Fulltext	false
Index Name Pattern	{ table_name }
Clustered	Non-clustered


tbl_cfug_timber_productions_tps_tree_spei_id_idx			
Columns	tree_species_id		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

### Relationships

fk_tbl_cfug_timber_prod : Relationship	
To	 tbl_cfug_timber_sales
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

tps_tree_spei_id : Relationship	
From	 lu_tree_species
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

tps_cfug_code : Relationship	
From	 tbl_community_forest_usergroups
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1

Sync To Association	Yes
Data Model	Physical

 **tbl\_cfug\_non\_timber\_productions**

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	tbl_cfug_non_timber_productions_pkey

*Columns Summary*

Name	Data Type	Constraints	Nullable	Description
cfug_ntp_id	int4	PK	No	
cf_usergroup_code	varchar(255)	FK (tbl_community_forest_usergroups.group_code)	No	
forest_product_id	int4	FK (lu_forest_products.lu_forest_product_id)	No	
avg_allowable_cut	numeric(10)		Yes	
total_qty_produced	numeric(10)		Yes	
remarks	varchar(255)		Yes	
fiscal_year	varchar(255)		Yes	



*Indices*

tbl_cfug_non_timber_productions_fpps_cfug_code_idx			
Columns	cf_usergroup_code		
	Project Management	Name	Value
Unique	false		


Bitmap	false
Fulltext	false
Index Name Pattern	{ table_name }
Clustered	Non-clustered

tbl_cfug_non_timber Productions_fpps_fp_id_idx			
Columns	forest_product_id		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

*Relationships*

cffpp_id : Relationship	
To	 tbl_cfug_non_timber_sales
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical
fpps_fp_id : Relationship	
From	 lu_forest_products
Identifying	false
Subtype	false

On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

fpps_cfug_code : Relationship	
From	 tbl_community_forest_usergroups
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

 **tbl\_cfug\_timber\_sales**

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	tbl_cfug_timber_sales_pkey

*Columns Summary*


Name	Data Type	Constraints	Nullable	Description
cfug_tim_sales_id	int4	PK	No	
cfug_tim_prod_id	int4	FK (tbl_cfug_tim	No	

		ber_productions.cfug_tim_prod_id)		
qty_sold_inside_cfug	numeric(10)		Yes	
amt_sale_inside_cfug_rs	numeric(10)		Yes	
qty_sold_outside_cfug	float8		Yes	
amt_sale_outside_cfug_rs	varchar(45)		Yes	
total_quantity_sold	numeric(10)		Yes	
total_revenue_generated	numeric(10)		Yes	
qty_timber_stock_remaining	numeric(10)		Yes	
remarks	varchar(255)		Yes	
fiscal_year	varchar(45)		Yes	

#### Indices

tbl_cfug_timber_sales_fk_tbl_cfug_timber_prod_idx			
Columns	cfug_tim_prod_id		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

#### Relationships

fk_tbl_cfug_timber_prod : Relationship	
From	 tbl_cfug_timber_productions
Identifying	false
Subtype	false
On Delete	No action
On Update	No action



To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical



#### tbl\_cfug\_non\_timber\_sales

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	tbl_cfug_non_timber_sales_pkey

#### Columns Summary


Name	Data Type	Constraints	Nullable	Description
forest_ntp_sale_id	int4	PK	No	
cfug_fpp_id	int4	FK (tbl_cfug_non_timber_productions.cfug_ntp_id)	No	
qty_sold_inside_cfug	numeric(10)		Yes	
amt_sale_inside_cfug_rs	numeric(10)		Yes	
qty_sold_outside_cfug	numeric(10)		Yes	
amt_sale_outside_cfug_rs	varchar(45)		Yes	
total_quantity_sold	numeric(10)		Yes	
total_revenue_generated	numeric(10)		Yes	
qty_stock_remaining	numeric(10)		Yes	
remarks	varchar(255)		Yes	
fiscal_year	varchar(100)		Yes	

#### Indices

tbl_cfug_non_timber_sales_cffpp_id_idx
--

Columns	cfug_fpp_id		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

*Relationships*

cffpp_id : Relationship	
From	 tbl_cfug_non_timber_productions
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

 **tbl\_cfug\_total\_timber\_productions**

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	tbl_cfug_total_timber_productions_pkey

*Columns Summary*


Name	Data Type	Constraints	Nullable	Description
cfug_ttp_id	int4	PK	No	
cfug_code	varchar(255)	FK (tbl_community_forest_user_groups.group_code)	Yes	
total_unit_timber	numeric(10)		Yes	
total_aac	numeric(10)		Yes	
total_qty_produced_silviculture	numeric(10)		Yes	
total_qty_produced_thinning	numeric(10)		Yes	
total_qty_produced_others	numeric(10)		Yes	
total_qty_produced	numeric(10)		Yes	
remarks	varchar(255)		Yes	
fiscal_year	varchar(255)		Yes	

*Indices*

tbl_cfug_total_timber Productions_cfttp_cf_code_idx			
Columns	cfug_code		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

*Relationships*

cfttp_cf_code : Relationship
------------------------------

From	 tbl_community_forest_usergroups
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical

 [tbl\\_cfug\\_total\\_timber\\_sales](#)

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	tbl_cfug_total_timber_sales_pkey

*Columns Summary*

Name	Data Type	Constraints	Nullable	Description
cfug_tts_id	int4	PK	No	
cfug_code	varchar(255)	FK (tbl_community_forest_usergroups.group_code)	No	
tree_species_id	int4	FK (lu_tree_species.tree_species_id)	No	
total_unit_timber	numeric(10)		Yes	
total_qty_sale_inside_cf	numeric(10)		Yes	
total_rs_sale_inside_cf	numeric(10)		Yes	
total_qty_sale_outside_cf	numeric(10)		Yes	

total_rs_sale_outside_cf	numeric(10)		Yes	
total_qty_sold	numeric(10)		Yes	
total_rs_sale	numeric(10)		Yes	
total_stock_remaining	numeric(10)		Yes	
remarks	varchar(255)		Yes	
fiscal_year	varchar(255)		Yes	

### Indices


tbl_cfug_total_timber_sales_tts_cf_code_idx			
Columns	cfug_code		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

tbl_cfug_total_timber_sales_fk_tts_lu_tree_species_idx			
Columns	tree_species_id		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

### Relationships

tts_cf_code : Relationship	
From	 tbl_community_forest_usergroups

Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

fk_tts_lu_tree_species : Relationship	
From	 lu_tree_species
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

 **tbl\_cfug\_fms\_activity\_expenses**

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	tbl_cfug_fms_activity_expenses_pkey

*Columns Summary*


Name	Data Type	Constraints	Nullable	Description
cfug_activity_id	int4	PK	No	
user_group_code	varchar(255)	FK (tbl_community_forest_user_groups.group_code)	Yes	
sub_activity_id	int4	FK (lu_cf_sub_activities.cf_sub_activity_id)	Yes	
external_support_rs	numeric(10)		Yes	
block_number	varchar(45)		Yes	
activity_quantity	numeric(10)		Yes	
cf_funds_rs	numeric(10)		Yes	
user_participant_man_days	numeric(10)		Yes	
total_rs	numeric(10)		Yes	
remarks	varchar(255)		Yes	
activity_date	date		Yes	
fiscal_year	varchar(225)		Yes	


*Indices*

tbl_cfug_fms_activity_expenses_sub_activity_id_idx			
Columns	sub_activity_id		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

tbl_cfug_fms_activity_expenses_fmsa_cfug_code_idx			
Columns	user_group_code		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

#### *Relationships*

fmsa_cfug_code : Relationship	
From	 tbl_community_forest_usergroups
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical

sub_activity_id : Relationship	
From	 lu_cf_sub_activities
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1



Sync To Association	Yes
Data Model	Physical



#### tbl\_cfug\_community\_dev\_activities

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	tbl_cfug_community_dev_activities_pkey

#### Columns Summary


Name	Data Type	Constraints	Nullable	Description
cdev_activity_id	int4	PK	No	
cf_usergroup_code	varchar(255)	FK (tbl_community_forest_usergroups.group_code)	No	
cf_sub_activity_id	int4	FK (lu_cf_sub_activities.cf_sub_activity_id)	No	
quantity_of_activity	numeric(10)		Yes	
cdev_activity_date	date		Yes	
expense_from_cf_acc_rs	numeric(10)		Yes	
user_participants_man_days	numeric(10)		Yes	
external_support_rs	numeric(10)		Yes	
total_expense_rs	numeric(10)		Yes	
remarks	varchar(255)		Yes	
fiscal_year	varchar(255)		Yes	

### Indices


tbl_cfug_community_dev_activities_cf_sub_activity_id_idx			
Columns	cf_sub_activity_id		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

tbl_cfug_community_dev_activities_cda_cf_code_idx			
Columns	cf_usergroup_code		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

### Relationships

cf_sub_activity_id2 : Relationship	
From	 lu_cf_sub_activities
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes

Data Model	Physical
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comda_cf_code : Relationship	
From	 tbl_community_forest_usergroups
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

 **tbl\_cfug\_income\_gen\_activities**

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	tbl_cfug_income_gen_activities_pkey

*Columns Summary*

Name	Data Type	Constraints	Nullable	Description
income_gen_activity_id	int4	PK	No	
cf_usergroup_code	varchar(255)	FK (tbl_community_forest_usergroups.group_code)	No	
cf_sub_activity_id	int4	FK (lu_cf_sub_activities.cf_sub_activity_id)	No	

quantity_of_activity	numeric(10)		Yes	
num_beneficiary_households	int4		Yes	
ingen_activity_date	date		Yes	
total_expenditure_rs	numeric(10)		Yes	
expense_from_cf_acc_rs	numeric(10)		Yes	
external_support_rs	numeric(10)		Yes	
name_external_institute	varchar(255)		Yes	
date_of_activity	date		Yes	
fiscal_year	varchar(255)		Yes	


*Indices*


tbl_cfug_income_gen_activities_cf_sub_activity_id_idx			
Columns	cf_sub_activity_id		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{table_name}		
Clustered	Non-clustered		

tbl_cfug_income_gen_activities_iga_cf_code_idx			
Columns	cf_usergroup_code		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{table_name}		

Clustered	Non-clustered
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*Relationships*

iga_cf_code : Relationship	
From	 tbl_community_forest_usergroups
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

cf_sub_activity_id0 : Relationship	
From	 lu_cf_sub_activities
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

 **tbl\_cfug\_capacity\_building\_activities**

Name	Value
Data Model	Physical
Schema	public

Primary Key Constraint Name	tbl_cfug_capacity_building_activities_pkey
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*Columns Summary*

Name	Data Type	Constraints	Nullable	Description
cb_activity_id	int4	PK	No	
cf_usergroup_code	varchar(255)	FK (tbl_community_forest_usergroups.group_code)	No	
cf_sub_activity_id	int4	FK (lu_cf_sub_activities.cf_sub_activity_id)	No	
quantity	numeric(10)		Yes	
num_benefiting_men	int4		Yes	
num_benefiting_women	int4		Yes	
cb_activity_date	date		Yes	
total_expense	numeric(10)		Yes	
cf_funds	numeric(10)		Yes	
government_support_rs	numeric(10)		Yes	
tbi_ngos_support_rs	numeric(10)		Yes	
remarks	varchar(255)		Yes	
fiscal_year	varchar(255)		Yes	


*Indices*


tbl_cfug_capacity_building_activities_cba_cf_code_idx			
Columns	cf_usergroup_code		
	Project Management	Name	Value
Unique	false		
Bitmap	false		

Fulltext	false
Index Name Pattern	{ table_name }
Clustered	Non-clustered

tbl_cfug_capacity_building_activities_cf_sub_activity_id_idx			
Columns	cf_sub_activity_id		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

#### Relationships

cf_sub_activity_id1 : Relationship	
From	 lu_cf_sub_activities
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

cba_cf_code : Relationship	
From	 tbl_community_forest_usergroups
Identifying	false
Subtype	false

On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

Institution \*\*\*\*\*

tbl\_cfug\_inst\_dev\_activities



[tbl\\_cfug\\_forest\\_protection\\_activities](#)

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	tbl_cfug_forest_protection_activities_pkey

*Columns Summary*

Name	Data Type	Constraints	Nullable	Description
fp_act_id	int4	PK	No	
cfug_code	varchar(255)	FK (tbl_community_forest_user_groups.group_code)	No	
sub_activity_id	int4	FK (lu_cf_sub_activities.cf_sub_activity_id)	No	
fp_approach_id	int4	FK (lu_forest_protection_approaches.fp_approach_id)	No	
fp_activity_date	date		Yes	



fiscal_year	varchar(255)		Yes	
remarks	varchar(255)		Yes	

*Indices*


tbl_cfug_forest_protection_activities_fpa_cfug_code_idx				
Columns	cfug_code			
	Project Management	Name	Value	
Unique	false			
Bitmap	false			
Fulltext	false			
Index Name Pattern	{ table_name }			
Clustered	Non-clustered			


tbl_cfug_forest_protection_activities_fpa_sub_act_id_idx				
Columns	sub_activity_id			
	Project Management	Name	Value	
Unique	false			
Bitmap	false			
Fulltext	false			
Index Name Pattern	{ table_name }			
Clustered	Non-clustered			


tbl_cfug_forest_protection_activities_fpa_method_id_idx				
Columns	fp_approach_id			
	Project Management	Name	Value	
Unique	false			
Bitmap	false			
Fulltext	false			

Index Name Pattern	{ table_name }
Clustered	Non-clustered

*Relationships*

<b>const_fpa_method_id : Relationship</b>	
From	 lu_forest_protection_approaches
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

<b>fpa_cfug_code : Relationship</b>	
From	 tbl_community_forest_usergroups
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

<b>const_fpa_sub_activity_id : Relationship</b>	
From	 lu_cf_sub_activities
Identifying	false

Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical



#### tbl\_cfug\_bank\_accounts

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	tbl_cfug_bank_accounts_pkey

#### Columns Summary



Name	Data Type	Constraints	Nullable	Description
cfug_bank_account_id	int4	PK	No	
cfug_code	varchar(255)	FK (tbl_community_forest_usergroups.group_code)	No	
bank_name	varchar(255)		Yes	
bank_address	varchar(255)		Yes	
account_number	int4		Yes	
account_type	varchar(45)		Yes	

#### Indices

tbl\_cfug\_bank\_accounts\_bacc\_cf\_code\_idx

Columns	cfug_code		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

### *Relationships*

fk_cfba_id : Relationship	
To	 tbl_cfug_bank_signatories
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical
bacc_cf_code : Relationship	
From	 tbl_community_forest_usergroups
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

 **tbl\_cfug\_bank\_signatories**

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	tbl_cfug_bank_signatories_pkey


*Columns Summary*

Name	Data Type	Constraints	Nullable	Description
bank_signatory_id	int4	PK	No	
cfug_bank_ac_id	int4	FK (tbl_cfug_bank_accounts.cfug_bank_account_id)	No	
name	varchar(45)		Yes	
post	varchar(45)		Yes	

*Indices*

tbl_cfug_bank_signatories_fk_cf_bank_acc_idx			
Columns	cfug_bank_ac_id		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

*Relationships*

fk_cfba_id : Relationship	
From	 tbl_cfug_bank_accounts

Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical



#### tbl\_cfug\_incomes

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	tbl_cfug_incomes_pkey

#### Columns Summary


Name	Data Type	Constraints	Nullable	Description
cfug_income_id	int4	PK	No	
cfug_code	varchar(255)	FK (tbl_community_forest_user_groups.group_code)	No	
fiscal_year	varchar(255)		Yes	
remaining_cash_from_last_year	numeric(10)		Yes	
bank_balance_last_year	numeric(10)		Yes	
investment_in_loan_last_year	numeric(10)		Yes	
investment_in_cooperative_last_year	numeric(10)		Yes	
timber_sale_within_com	numeric(10)		Yes	

community				
timber_sale_outside_community	numeric(10)		Yes	
firewood_sale_within_community	numeric(10)		Yes	
firewood_sale_outside_community	numeric(10)		Yes	
medicinal_herbs_sale	numeric(10)		Yes	
resin_sale	numeric(10)		Yes	
thatching_broom_others_sale	numeric(10)		Yes	
others_product_sale	numeric(10)		Yes	
membership_renewal_ent_fees	numeric(10)		Yes	
prizes	numeric(10)		Yes	
grants	numeric(10)		Yes	
penalties	numeric(10)		Yes	
env_services_payment	numeric(10)		Yes	
eco-tourism	numeric(10)		Yes	
interest_this_fiscal_year	numeric(10)		Yes	
others_and_dues	numeric(10)		Yes	
total_income	numeric(10)		Yes	

*Indices*

tbl_cfug_incomes_income_cf_code_idx			
Columns	cfug_code		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

### Relationships

income_cf_code : Relationship	
From	 tbl_community_forest_usergroups
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical



### tbl\_lfug\_expenditures

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	tbl_lfug_expenditures_pkey

### Columns Summary


Name	Data Type	Constraints	Nullable	Description
lfug_expenditure_id	int4	PK	No	
lfug_code	varchar(255)		No	
forest_dev	varchar(225)		Yes	
comittee_dev	varchar(225)		Yes	
institutional_dev	varchar(225)		Yes	
poor_focused_activities	varchar(225)		Yes	
amt_interest_paysavers	varchar(225)		Yes	
others	varchar(225)		Yes	



### Indices

tbl_ifug_expenditures_fk_exp_ifug_code_idx			
Columns	ifug_code		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

### Relationships

const_date_ifug_expenditure_id : Relationship	
To	 tbl_ifug_income_exp_dates
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

tbl\_cfug\_monitoring\_supervisions

tbl\_cfug\_miscellaneous



tbl\_cfug\_positive\_forest\_area\_changes

Name	Value
Data Model	Physical
Schema	public

Primary Key Constraint Name	tbl_cfug_positive_forest_area_changes_pkey
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*Columns Summary*

Name	Data Type	Constraints	Nullable	Description
cfug_pos_for_area	int4	PK	No	
p_fac_id	int4	FK (lu_positive_forest_area_changes.p_fac_id)	No	
cfug_code	varchar(255)	FK (tbl_community_forest_user_groups.group_code)	No	
affected_area_hectare	numeric(10)		Yes	
remarks	varchar(255)		Yes	
fiscal_year	varchar(255)		Yes	


*Indices*


tbl_cfug_positive_forest_area_changes_fk_lu_tbl_cfug_pfac_idx			
Columns	p_fac_id		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

tbl_cfug_positive_forest_area_changes_fk_pfac_cf_code_idx	
Columns	cfug_code

	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

### *Relationships*

<b>fk_pos_fac_id : Relationship</b>	
From	 lu_positive_forest_area_changes
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

<b>fk_pfac_cf_code : Relationship</b>	
From	 tbl_community_forest_usergroups
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical



**tbl\_cfug\_negative\_forest\_area\_changes**

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	tbl_cfug_negative_forest_area_changes_pkey

*Columns Summary*


Name	Data Type	Constraints	Nullable	Description
cfug_neg_for_area	int4	PK	No	
n_fac_id	int4	FK (lu_negative_forest_area_changes.n_fac_id)	No	
cfug_code	varchar(255)	FK (tbl_community_forest_user_groups.group_code)	No	
affected_area_hectare	numeric(10)		Yes	
remarks	varchar(255)		Yes	
fiscal_year	varchar(255)		Yes	


*Indices*

tbl_cfug_negative_forest_area_changes_fk_pfac_cf_code_idx			
Columns	cfug_code		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

tbl_cfug_negative_forest_area_changes_fk_tbl_lu_nfac_idx			
Columns	n_fac_id		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

#### *Relationships*

fk_nfac_id : Relationship	
From	 lu_negative_forest_area_changes
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

fk_nfac_cf_code : Relationship	
From	 tbl_community_forest_usergroups
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*

From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

tbl\_cfug\_wildlife\_status



tbl\_cfug\_biodiversity\_status

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	tbl_cfug_biodiversity_status_pkey

#### Columns Summary


Name	Data Type	Constraints	Nullable	Description
cfug_biodiversity_status_id	int4	PK	No	
cfug_code	varchar(255)	FK (tbl_community_forest_usergroups.group_code)	No	
status_of_biodiversity	varchar(100)		Yes	
changes_since_handover	varchar(100)		Yes	
description	varchar(255)		Yes	
fiscal_year	varchar(255)		Yes	

#### Indices

tbl_cfug_biodiversity_status_bios_cf_code_idx			
Columns	cfug_code		
	Project Management	Name	Value
Unique	false		

Bitmap	false
Fulltext	false
Index Name Pattern	{ table_name }
Clustered	Non-clustered

### Relationships

bios_cf_code : Relationship	
From	 tbl_community_forest_usergroups
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

### tbl\_cfug\_ecosystem\_services

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	tbl_cfug_ecosystem_services_pkey

### Columns Summary


Name	Data Type	Constraints	Nullable	Description
cfug_ecosystem_service_id	int4	PK	No	
cfug_code	varchar(255)	FK (tbl_community_forest_user	No	

		groups.group_code)		
type_of_ecosystem_service	varchar(255)		Yes	
description	varchar(255)		Yes	
fiscal_year	varchar(255)		Yes	

### Indices

tbl_cfug_ecosystem_services_eco_cf_code_idx			
Columns	cfug_code		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

### Relationships

eco_cf_code : Relationship	
From	 tbl_community_forest_usergroups
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical





### tbl\_cfug\_climate\_change\_adap\_measures

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	tbl_cfug_climate_change_adap_measures_pkey

### Columns Summary


Name	Data Type	Constraints	Nullable	Description
cf_ccam_id	int4	PK	No	
cfug_code	varchar(255)	FK (tbl_community_forest_user_groups.group_code)	No	
measures_implemented	varchar(255)		Yes	
description	varchar(255)		Yes	
fiscal_year	varchar(255)		Yes	

### Indices

tbl_cfug_climate_change_adap_measures_cccam_cf_code_idx			
Columns	cfug_code		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

### Relationships

cccam_cf_code : Relationship
------------------------------

From	 tbl_community_forest_usergroups
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

 [tbl\\_cfug\\_hu\\_liv\\_wildlife\\_conflicts](#)

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	tbl_cfug_hu_liv_wildlife_conflicts_pkey

*Columns Summary*

Name	Data Type	Constraints	Nullable	Description
hwc_id	int4	PK	No	
cfug_code	varchar(255)	FK (tbl_community_forest_usergroups.group_code)	No	
wl_species_id	int4	FK (lu_wildlife_species.ws_id)	No	
num_of_injured_hum_wildlife	int4		Yes	
num_of_deaths_hum_wildlife	int4		Yes	


incident_remarks_hum_wildlife	varchar(255)		Yes	
num_of_injured_livestock_wildlife	int4		Yes	
num_of_deaths_livestock_wildlife	int4		Yes	
incident_remarks_livestock_wildlife	varchar(255)		Yes	
collection_date	date		Yes	
fiscal_year	varchar(45)		Yes	


*Indices*

tbl_cfug_hu_liv_wildlife_conflicts_fk_hwc_cf_code_idx			
Columns	cfug_code		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

tbl_cfug_hu_liv_wildlife_conflicts_lu_wl_spe_id_idx			
Columns	wl_species_id		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

### Relationships

const_hwc_ws_id : Relationship	
From	 lu_wildlife_species
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

fk_hwc_cf_code : Relationship	
From	 tbl_community_forest_usergroups
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

### tbl\_cfug\_forest\_offences

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	tbl_cfug_forest_offences_pkey

*Columns Summary*


Name	Data Type	Constraints	Nullable	Description
fo_id	int4	PK	No	
cfug_code	varchar(255)	FK (tbl_community_forest_user_groups.group_code)	No	
offence_type	varchar(255)		Yes	
number_of_offence	int4		Yes	
num_case_registered_at_dfo	int4		Yes	
num_case_registered_district_court	int4		Yes	
num_case_decided_by_dfo	int4		Yes	
num_case_settled_in_community	int4		Yes	
num_case_decided_by_district_court	int4		Yes	
num_case_in_appeal_court	int4		Yes	
num_forest_offender_male	int4		Yes	
num_forest_offender_female	int4		Yes	
num_wildlife_offence	int4		Yes	
data_collection_date	date		Yes	
fiscal_year	varchar(255)		Yes	

*Indices*

tbl_cfug_forest_offences_foof_cfug_code_idx			
Columns	cfug_code		
	Project Management	Name	Value

Unique	false
Bitmap	false
Fulltext	false
Index Name Pattern	{ table_name }
Clustered	Non-clustered

### Relationships

foof_cfug_code : Relationship	
From	 tbl_community_forest_usergroups
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

### tbl\_cfug\_total\_growing\_stocks

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	tbl_cfug_total_growing_stocks_pkey

### Columns Summary


Name	DataType	Constraints	Nullable	Description
cfug_total_growing_stock_id	int4	PK	No	
cfug_code	varchar(255)	FK (tbl_communi	No	

		ty_forest_user groups.group_ code)		
nominal_cfug_area_ha	numeric(10)		Yes	
actual_cfug_area_ha	numeric(10)		Yes	
avg_growing_stock_per_ha	numeric(10)		Yes	
total_growing_stock_m3	numeric(10)		Yes	
total_above_ground_biomass_Mg	numeric(10)		Yes	
total_above_ground_carbon_content_Mg	numeric(10)		Yes	
total_below_ground_carbon_content_Mg	numeric(10)		Yes	
grand_total_carbon_content	numeric(10)		Yes	

#### Indices

tbl_cfug_total_growing_stocks_fk_tgs_cfug_code_idx			
Columns	cfug_code		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

#### Relationships

fk_tgs_cfug_code : Relationship	
From	 tbl_community_forest_usergroups
Identifying	false
Subtype	false

On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical



#### tbl\_district\_profiles

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	tbl_district_profiles_pkey

#### Columns Summary

Name	DataType	Constraints	Nullable	Description
district_profile_id	int4	PK	No	
district_id	int4	FK (lu_districts.district_id)	Yes	
average_household	varchar(255)		Yes	
num_of_households	varchar(255)		Yes	
population	varchar(255)		Yes	
male	varchar(255)		Yes	
female	int4		Yes	
area_forest	varchar(255)		Yes	
area_tot	varchar(255)		Yes	
area_pot	varchar(255)		Yes	


#### Indices

tbl\_district\_profiles\_district\_id\_idx



Columns	district_id		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

### Relationships

dprof_district_id : Relationship	
From	 lu_districts
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical

### tbl\_district\_projects

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	tbl_district_projects_pkey

### Columns Summary


Name	Data Type	Constraints	Nullable	Description
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district_project_id	int4	PK	No	
district_id	int4	FK (lu_districts.district_id)	Yes	
project_name	varchar(255)		Yes	
project_abbrev	varchar(255)		Yes	
potential_cf_area	varchar(255)		Yes	
record_available_date	varchar(255)		Yes	
remarks	varchar(255)		Yes	

### Indices

tbl_district_projects_district_id_idx			
Columns	district_id		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

### Relationships

dproj_district_id : Relationship	
From	 lu_districts
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes

Data Model	Physical
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**tbl\_leasehold\_forest\_usergroups**

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	tbl_leasehold_forest_usergroups_pkey

*Columns Summary*

Name	Data Type	Constraints	Nullable	Description
group_code	varchar(255)	PK	No	
district_id	int4	FK (lu_districts.district_id)	No	
vdc_id	int4	FK (lu_vdcs.vdc_id)	Yes	
vdc_name	varchar(255)		Yes	
ward_numbers	varchar(255)		Yes	
forest_name	varchar(100)		Yes	
group_name	varchar(255)		Yes	
area_hectare	numeric(10)		Yes	
forest_handover_date	date		Yes	
registration_date	date		Yes	
handover_fiscal_year	varchar(100)		Yes	
num_years_leased_for	int4		Yes	
num_households	int4		Yes	
population	int4		Yes	
remarks	varchar(255)		Yes	
notes	varchar(255)		Yes	
data_collection_date	date		Yes	

### Indices



tbl_leasehold_forest_usergroups_handover_date_idx			
Columns	forest_handover_date		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		


tbl_leasehold_forest_usergroups_dis_id_idx			
Columns	district_id		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

tbl_leasehold_forest_usergroups_vdc_id0_idx			
Columns	vdc_id		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		

Clustered	Non-clustered
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*Relationships*

<b>tm_cfug_code0 : Relationship</b>	
To	 tbl_lfug_total_members
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical
<b>dis_id : Relationship</b>	
From	 lu_districts
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

<b>vdc_id0 : Relationship</b>	
From	 lu_vdcs
Identifying	false
Subtype	false
On Delete	No action

On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical



#### tbl\_lfug\_members

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	tbl_lfug_members_pkey

#### Columns Summary

Name	Data Type	Constraints	Nullable	Description
lfug_member_id	int4	PK	No	
lfug_code	varchar(255)		No	
name	varchar(45)		Yes	
position	varchar(45)		Yes	
sex	varchar(45)		Yes	
family_mem_male	int4		Yes	
family_mem_female	int4		Yes	
ethnicity	varchar(45)		Yes	
wb_category	int4		Yes	
remarks	text		Yes	

#### Indices

tbl_lfug_members_fk_mem_lfug_code_idx			
Columns	lfug_code		
	Project Management	Name	Value

Unique	false
Bitmap	false
Fulltext	false
Index Name Pattern	{ table_name }
Clustered	Non-clustered



#### tbl\_lfug\_total\_members

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	tbl_lfug_total_members_pkey

#### *Columns Summary*


Name	Data Type	Constraints	Nullable	Description
total_members_id	int4	PK	No	
lfug_code	varchar(255)	FK (tbl_leasehold_forest_usergroups.group_code)	No	
num_of_total_members	int4		Yes	
num_of_men_members	int4		Yes	
num_of_women_members	int4		Yes	
num_of_janajati_members	int4		Yes	
num_of_dalit_members	int4		Yes	
num_of_other_members	int4		Yes	
num_total_committee_members	int4		Yes	
num_women_committee_members	int4		Yes	

fiscal_year	varchar(255)		Yes	
date_collected	date		Yes	

### Indices

tbl_ifug_total_members_tm_cfug_code0_idx			
Columns	ifug_code		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

### Relationships

tm_cfug_code0 : Relationship	
From	 tbl_leasehold_forest_usergroups
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

### tbl\_ifug\_implementation\_plans

Name	Value
Data Model	Physical
Schema	public



Primary Key Constraint Name	tbl_lfug_implementation_plans_pkey
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*Columns Summary*

Name	Data Type	Constraints	Nullable	Description
lip_id	int4	PK	No	
lfug_code	varchar(255)		No	
number_landless	int4		Yes	
date_lip_preparation	date		Yes	
date_lip_approval	date		Yes	
amount_lip_support_received	int4		Yes	
area_no_grazing	int4		Yes	
total_num_bushfires	int4		Yes	

*Indices*

tbl_lfug_implementation_plans_fk_ip_lfug_code_idx			
Columns	lfug_code		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		



**tbl\_lfug\_livestocks**

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint	tbl_lfug_livestocks_pkey

Name	
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*Columns Summary*

Name	Data Type	Constraints	Nullable	Description
livestocks_id	int4	PK	No	
lfug_code	varchar(255)		No	
num_female_goats	int4		Yes	
num_male_goats	int4		Yes	
num_hhs_stall_feeding	int4		Yes	
num_goats_sold	int4		Yes	
num_hhs_involved	int4		Yes	
money_milk	varchar(255)		Yes	
money_meet	varchar(255)		Yes	
money_animal	varchar(255)		Yes	
money_forage_seed	varchar(255)		Yes	
total_money_all_hhs	varchar(255)		Yes	

*Indices*

tbl_lfug_livestocks_fk_ls_lfug_code_idx			
Columns	lfug_code		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		



*tbl\_lfug\_planting\_materials*

Name	Value
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Data Model	Physical
Schema	public
Primary Key Constraint Name	tbl_lfug_planting_materials_pkey

*Columns Summary*

Name	DataType	Constraints	Nullable	Description
lfug_planting_material_id	int4	PK	No	
lfug_code	varchar(225)		No	
planting_material_name	varchar(225)		Yes	
unit	varchar(45)		Yes	
qty_received	varchar(225)		Yes	
qty_planted	varchar(225)		Yes	
date_planted	date		Yes	
qty_surviving	varchar(225)		Yes	
date_status_check	date		Yes	
remarks	text		Yes	

*Indices*

tbl_lfug_planting_materials_fk_pm_lfug_code_idx			
Columns	lfug_code		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		



### tbl\_lfug\_forage\_dev

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	tbl_lfug_forage_dev_pkey

### Columns Summary

Name	Data Type	Constraints	Nullable	Description
idlfug_forage_dev	int4	PK	No	
lfug_code	varchar(255)		No	
forage_title	varchar(255)		Yes	
unit	varchar(45)		Yes	
qty_received	varchar(45)		Yes	
qty_planted	varchar(45)		Yes	
planted_area	float8		Yes	
date_plantation	date		Yes	
present_status	varchar(255)		Yes	
remarks	varchar(255)		Yes	

### Indices

tbl_lfug_forage_dev_fk_fd_lfug_code_idx			
Columns	lfug_code		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		



### tbl\_lfug\_incomes

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	tbl_lfug_incomes_pkey

### Columns Summary


Name	Data Type	Constraints	Nullable	Description
lfug_income_id	int4	PK	No	
lfug_code	varchar(255)		No	
amt_selling_fproducts	varchar(225)		Yes	
amt_selling_forage	varchar(225)		Yes	
amt_donation	varchar(225)		Yes	
amt_fines_fees	varchar(225)		Yes	
amt_interest_earnedloan	varchar(225)		Yes	
others	varchar(225)		Yes	

### Indices

tbl_lfug_incomes_fk_in_lfug_code_idx			
Columns	lfug_code		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

### Relationships

const_date_lfug_income_id : Relationship
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To	 tbl_lfug_income_exp_dates
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical

 **tbl\_lfug\_expenditures**

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	tbl_lfug_expenditures_pkey

*Columns Summary*


Name	Data Type	Constraints	Nullable	Description
lfug_expenditure_id	int4	PK	No	
lfug_code	varchar(255)		No	
forest_dev	varchar(225)		Yes	
comittee_dev	varchar(225)		Yes	
institutional_dev	varchar(225)		Yes	
poor_focused_activities	varchar(225)		Yes	
amt_interest_paysavers	varchar(225)		Yes	
others	varchar(225)		Yes	

*Indices*

<b>tbl_lfug_expenditures_fk_exp_lfug_code_idx</b>
---

Columns	lfug_code		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

### Relationships

const_date_lfug_expenditure_id : Relationship	
To	 tbl_lfug_income_exp_dates
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

### tbl\_lfug\_fund\_status

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	tbl_lfug_fund_status_pkey

### Columns Summary

Name	Data Type	Constraints	Nullable	Description
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lfug_fund_status_id	int4	PK	No	
lfug_code	varchar(255)		No	
amt_in_bank	varchar(225)		Yes	
amt_in_cash	varchar(225)		Yes	
amt_in_loan	varchar(225)		Yes	
amt_in_investment	varchar(225)		Yes	
fiscal_year	varchar(45)		Yes	

### Indices

tbl_lfug_fund_status_fk_fds_lfug_code_idx			
Columns	lfug_code		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		



### tbl\_lfug\_financials

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	tbl_lfug_financials_pkey

### Columns Summary

Name	Data Type	Constraints	Nullable	Description
lfug_financial_id	int4	PK	No	



lfug_code	vvarchar(255)		No	
num_hhs_monthlysavings	int4		Yes	
saving_rate	vvarchar(225)		Yes	
rate_interest_savings	vvarchar(225)		Yes	
total_fund_monthlysavings	vvarchar(225)		Yes	
num_hhs_opsavings	vvarchar(225)		Yes	
total_fund_opsavings	vvarchar(225)		Yes	
total_amt_goatdeposit	vvarchar(225)		Yes	
num_hhs_goatdeposit	vvarchar(225)		Yes	
total_loan_flow	vvarchar(225)		Yes	
dalit_num_hhs	vvarchar(225)		Yes	
dalit_amount	vvarchar(225)		Yes	
dalit_remarks	text		Yes	
janjatis_num_hhs	vvarchar(225)		Yes	
janjatis_amount	vvarchar(225)		Yes	
janjatis_remarks	text		Yes	
others_num_hhs	vvarchar(225)		Yes	
others_amount	vvarchar(225)		Yes	
others_remarks	text		Yes	
loan_agriculture	vvarchar(255)		Yes	
loan_livestocks	vvarchar(225)		Yes	
loan_business	vvarchar(225)		Yes	
loan_hhs_needs	vvarchar(225)		Yes	
loan_others	vvarchar(225)		Yes	
interest_within_group	vvarchar(45)		Yes	
interest_outside_group	vvarchar(45)		Yes	
num_hhs_pay_ontime	vvarchar(45)		Yes	
fiscal_year	vvarchar(45)		Yes	

### Indices

tbl_lfug_financials_fk_fin_lfug_code_idx			
Columns	lfug_code		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		



### tbl\_lfug\_financial\_institutions

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	tbl_lfug_financial_institutions_pkey

### Columns Summary

Name	Data Type	Constraints	Nullable	Description
lfug_financial_institution_id	int4	PK	No	
lfug_code	varchar(225)		No	
name	varchar(255)		Yes	
address	varchar(255)		Yes	
num_of_members	int4		Yes	
savings_rates	varchar(255)		Yes	
interest_savings	varchar(255)		Yes	
interest_loans	varchar(255)		Yes	
num_hhs_loanstaken	varchar(255)		Yes	
total_amt_loan	varchar(255)		Yes	

fiscal_year	varchar(45)		Yes	
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*Indices*

tbl_lfug_financial_institutions_fk_finin_lfug_code_idx			
Columns	lfug_code		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		



**tbl\_lfug\_income\_exp\_dates**

Name	Value
Data Model	Physical
Schema	public

*Columns Summary*


Name	Data Type	Constraints	Nullable	Description
income_exp_dates_id	int4	FK (tbl_lfug_expenditures.lfug_expenditure_id)	No	
lfug_income_id	int4	FK (tbl_lfug_incomes.lfug_income_id)	Yes	
lfug_expenditure_id	int4		Yes	
date	date		Yes	
fiscal_year	varchar(45)		Yes	

### Indices


tbl_lfug_income_exp_dates_lfug_income_id_idx			
Columns	lfug_income_id		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

tbl_lfug_income_exp_dates_const_date_lfug_expenditure_id			
Columns	income_exp_dates_id		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

### Relationships

const_date_lfug_expenditure_id : Relationship	
From	 tbl_lfug_expenditures
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes

Data Model	Physical
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const_date_lfug_income_id : Relationship	
From	 tbl_lfug_incomes
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical

 **tbl\_lfug\_forest\_trainings**

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	tbl_lfug_forest_trainings_pkey

*Columns Summary*

Name	Data Type	Constraints	Nullable	Description
lfug_forest_training_id	int4	PK	No	
lfug_code	varchar(255)		No	
training_name	varchar(255)		Yes	
duration_days	int4		Yes	
training_date	date		Yes	
num_dalit_males	int4		Yes	
num_dalit_females	int4		Yes	
num_janajatis_males	int4		Yes	

num_janajatis_females	int4		Yes	
num_other_males	int4		Yes	
num_other_females	int4		Yes	

### Indices

tbl_lfug_forest_trainings_fk_ft_lfug_code_idx			
Columns	lfug_code		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		



### tbl\_lfug\_livestock\_trainings

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	tbl_lfug_livestock_trainings_pkey

### Columns Summary

Name	DataType	Constraints	Nullable	Description
lfug_livestock_training_id	int4	PK	No	
lfug_code	varchar(255)		No	
training_name	varchar(255)		Yes	
duration_days	varchar(255)		Yes	
training_date	date		Yes	
num_dalit_males	int4		Yes	

num_dalit_females	int4		Yes	
num_janajatis_males	int4		Yes	
num_janajatis_females	int4		Yes	
num_other_males	int4		Yes	
num_other_females	int4		Yes	

### Indices

tbl_lfug_livestock_trainings_fk_lt_lfug_code_idx			
Columns	lfug_code		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		



### tbl\_lfug\_finance\_trainings

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	tbl_lfug_finance_trainings_pkey

### Columns Summary

Name	Data Type	Constraints	Nullable	Description
lfug_finance_training_id	int4	PK	No	
lfug_code	varchar(255)		No	
training_name	varchar(225)		Yes	
duration_days	varchar(225)		Yes	
training_date	date		Yes	

num_dalit_males	int4		Yes	
num_dalit_females	int4		Yes	
num_janajatis_males	int4		Yes	
num_janajatis_females	int4		Yes	
num_other_males	int4		Yes	
num_other_females	int4		Yes	

### Indices

tbl_lfug_finance_trainings_fk_fint_lfug_code_idx			
Columns	lfug_code		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		



### tbl\_collaborative\_forests

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	tbl_collaborative_forests_pkey

### Columns Summary

Name	DataType	Constraints	Nullable	Description
collaborative_forest_id	int4	PK	No	
district_id	int4	FK (lu_districts.district_id)	Yes	





forest_name	varchar(255)		Yes	
total_num_vdcs_municipality_covered	varchar(256)		Yes	
plan_period_start_fy	varchar(256)		Yes	
plan_period_end_fy	varchar(256)		Yes	
plan_period_years	int4		Yes	
total_area_hectare	float8		Yes	


### Indices


tbl_collaborative_forests_district_id_idx			
Columns	district_id		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

### Relationships



collfr_collaborative_forest_id : Relationship	
To	 tbl_collf_revenues
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical

collf_id : Relationship	
To	 tbl_collf_encroaches
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical

collfop_collaborative_forest_id : Relationship	
To	 tbl_collf_operational_plans
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical

fk_collf_sr_collf_id : Relationship	
To	 tbl_collf_sales_rev_forest_products
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*

From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

collfp_collaborative_forest_id : Relationship	
To	 tbl_collf_productions
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical
collf_district_id : Relationship	
From	 lu_districts
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical

 [tbl\\_collf\\_operational\\_plans](#)

Name	Value
Data Model	Physical

Schema	public
Primary Key Constraint Name	tbl_collf_operational_plans_pkey

*Columns Summary*


Name	DataType	Constraints	Nullable	Description
cof_operational_plan_id	int4	PK	No	
collaborative_forest_id	int4	FK (tbl_collaborative_forests.collaborative_forest_id)	Yes	
approval_fy	varchar(255)		Yes	
approval_department	varchar(255)		Yes	
total_households	int4		Yes	
total_beneficiary_population	int4		Yes	
area_km	float8		Yes	
employment_man_days	float8		Yes	

*Indices*

tbl_collf_operational_plans_collaborative_forest_id_idx			
Columns	collaborative_forest_id		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

*Relationships*

<b>collfop_collaborative_forest_id : Relationship</b>
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From	 tbl_collaborative_forests
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical

 **tbl\_collf\_productions**

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	tbl_collf_productions_pkey

*Columns Summary*

Name	Data Type	Constraints	Nullable	Description
forest_production_id	int4	PK	No	
collaborative_forest_id	int4	FK (tbl_collaborative_forests.collaborative_forest_id)	Yes	
timber_production	int4		Yes	
fuelwood_production	int4		Yes	
timber_allowable_cut_cft	int4		Yes	
fuelwood_allowable_cut_chatta	int4		Yes	
fiscal_year_id	int4	FK	Yes	


		(lu_fiscal_years.id)		
collection_date	date		Yes	

### Indices


tbl_collf_productions_collaborative_forest_id_idx			
Columns	collaborative_forest_id		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

tbl_collf_productions_fp_fy_id_idx			
Columns	fiscal_year_id		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

### Relationships

fp_fy_id : Relationship	
From	 lu_fiscal_years
Identifying	false
Subtype	false
On Delete	No action

On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical

collfp_collaborative_forest_id : Relationship	
From	 tbl_collaborative_forests
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical

 **tbl\_collf\_revenues**

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	tbl_collf_revenues_pkey

*Columns Summary*

Name	DataType	Constraints	Nullable	Description
collaborative_forest_revenue_id	int4	PK	No	
collaborative_forest_id	int4	FK (tbl_collaborative_forests.col	Yes	

		laborative_for est_id)		
total_estimated_revenue	float8		Yes	
estimated_budget	float8		Yes	
fiscal_year_id	int4	FK (lu_fiscal_yea rs.id)	Yes	

### Indices

tbl_collf_revenues_fr_fy_id_idx			
Columns	fiscal_year_id		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		


tbl_collf_revenues_collaborative_forest_id_idx			
Columns	collaborative_forest_id		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

### Relationships

fr_fy_id : Relationship	
From	 lu_fiscal_years



Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical

collfr_collaborative_forest_id : Relationship	
From	 tbl_collaborative_forests
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical

 **tbl\_collf\_encroaches**

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	tbl_collf_encroaches_pkey

*Columns Summary*


Name	DataType	Constraints	Nullable	Description
id	int4	PK	No	

collforest_id	int4	FK (tbl_collaborative_forests.collaborative_forest_id)	Yes	
area_encroached	numeric(10)		Yes	
forest_type	varchar(100)		Yes	
year_of_encroachment	int4		Yes	
number_of_households	int4		Yes	
encroaching_motivation	varchar(255)		Yes	
caste	varchar(45)		Yes	
reclaimed_encroached_area	numeric(10)		Yes	
remarks	varchar(255)		Yes	
activity_in_reclaimed_area	varchar(255)		Yes	

#### Indices

tbl_collf_encroaches_collf_id_idx			
Columns	collforest_id		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

#### Relationships

collf_id : Relationship	
From	 tbl_collaborative_forests
Identifying	false
Subtype	false

On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical



#### tbl\_collf\_sales\_rev\_forest\_products

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	tbl_collf_sales_rev_forest_products_pkey

#### *Columns Summary*

Name	Data Type	Constraints	Nullable	Description
sales_revenue_id	int4	PK	No	
collf_id	int4	FK (tbl_collaborative_forests.collaborative_forest_id)	No	
forest_product_id	int4	FK (lu_forest_products.lu_forest_product_id)	Yes	
quantity_fp_sold	numeric(10)		Yes	
amt_revenue_generated	numeric(10)		Yes	
fiscal_year_id	int4	FK (lu_fiscal_years.id)	Yes	


*Indices*


tbl_collf_sales_rev_forest_products_fk_collf_sr_collf_id_idx			
Columns	collf_id		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		


tbl_collf_sales_rev_forest_products_collf_fp_id_idx			
Columns	forest_product_id		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

tbl_collf_sales_rev_forest_products_fk_fy_id_idx			
Columns	fiscal_year_id		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

### Relationships

fk_collf_fp_id : Relationship	
From	 lu_forest_products
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical

fk_collf_sr_collf_id : Relationship	
From	 tbl_collaborative_forests
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

fk_collf_sr_fy_id : Relationship	
From	 lu_fiscal_years
Identifying	false
Subtype	false
On Delete	No action
On Update	No action

To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical



#### tbl\_religious\_forest\_usergroups

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	tbl_religious_forest_usergroups_pkey

#### Columns Summary


Name	Data Type	Constraints	Nullable	Description
rfug_id	int4	PK	No	
rf_usergroup_name	varchar(255)		Yes	
rf_forest_name	varchar(255)		Yes	
district_id	int4	FK (lu_districts.district_id)	No	
sector	varchar(255)		Yes	
ilaka_name	varchar(255)		Yes	
vdc_id	int4	FK (lu_vdcs.vdc_id)	Yes	
vdc_name	varchar(255)		Yes	
ward_no	varchar(45)		Yes	
area_hectare	numeric(10)		Yes	
forest_type	varchar(100)		Yes	
handover_date	date		Yes	
remarks	varchar(255)		Yes	

### Indices


tbl_religious_forest_usergroups_fk_ref_vdc_id_idx			
Columns	vdc_id		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

tbl_religious_forest_usergroups_fp_ref_district_id_idx			
Columns	district_id		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

### Relationships

fk_ref_district_id : Relationship	
From	 lu_districts
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes

Data Model	Physical
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fk_ref_vdc_id : Relationship	
From	 lu_vdcs
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical

 **tbl\_protected\_forests**

Name	Value	
Data Model	Physical	
Schema	public	
Primary Key Constraint Name	tbl_protected_forests_pkey	
Project Management	Name	Value
	Author	Lenovo
	Create Date Time	Aug 22, 2015 12:18:09 AM
	Last Modified	Aug 22, 2015 12:47:19 AM

*Columns Summary*

Name	Data Type	Constraints	Nullable	Description
protected_forest_id	int4	PK	No	
district_id	int4	FK (lu_districts.district_id)	Yes	




forest_name	varchar(255)		Yes	
op_status	varchar(100)		Yes	
op_approved_date	date		Yes	
area_hectare	float8		Yes	
remarks	varchar(256)		Yes	

### Indices

tbl_protected_forests_district_id_idx			
Columns	district_id		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		
Project Management	Name	Value	
	Author	Lenovo	
	Create Date Time	Aug 22, 2015 12:18:10 AM	
	Last Modified	Aug 22, 2015 12:47:19 AM	

### Relationships

prof_district_id : Relationship	
From	 lu_districts
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes

Data Model	Physical
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#### tbl\_private\_forest\_owners

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	tbl_private_forest_owners_pkey

#### Columns Summary

Name	Data Type	Constraints	Nullable	Description
pf_owner_id	int4	PK	No	
district_id	int4	FK (lu_districts.district_id)	No	
vdc_id	int4	FK (lu_vdcs.vdc_id)	Yes	
vdc_name	varchar(255)		Yes	
ward_num	varchar(100)		Yes	
plot_num	varchar(255)		Yes	
owner_fullname	varchar(255)		Yes	
code	varchar(255)		Yes	
date_registration	varchar(100)		Yes	
year_registration	varchar(100)		Yes	
remarks	varchar(255)		Yes	
notes	varchar(255)		Yes	


#### Indices

**tbl\_private\_forest\_owners\_district\_id\_idx**


Columns	district_id		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		
Project Management	Name		Value
	Author		Lenovo
	Create Date Time		Aug 22, 2015 12:18:10 AM
	Last Modified		Aug 22, 2015 12:47:19 AM


tbl_private_forest_owners_vdc_id_idx			
Columns	vdc_id		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		
Project Management	Name		Value
	Author		Lenovo
	Create Date Time		Aug 22, 2015 12:18:10 AM
	Last Modified		Aug 22, 2015 12:47:19 AM


*Relationships*


pf_owner_id : Relationship	
To	 tbl_private_forest_trees

Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical

fk_bz_private_forest_id : Relationship	
To	 tbl_bufferzone_private_forests
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

pfa_private_forest_owner_id : Relationship	
To	 tbl_private_forest_areas
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes

Data Model	Physical
<b>pf_vdc_id : Relationship</b>	
From	 lu_vdcs
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical

<b>pf_district_id : Relationship</b>	
From	 lu_districts
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

 **tbl\_private\_forest\_areas**

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	tbl_private_forest_areas_pkey

*Columns Summary*


Name	Data Type	Constraints	Nullable	Description
pf_area_id	int4	PK	No	
pf_owner_id	int4	FK (tbl_private_forest_owners. pf_owner_id)	Yes	
area_bigha	varchar(45)		Yes	
area_katha	varchar(45)		Yes	
area_dhur	varchar(45)		Yes	
area_ropani	varchar(45)		Yes	
area_anna	varchar(45)		Yes	
area_paisa	varchar(45)		Yes	
area_dam	varchar(45)		Yes	
east	varchar(255)		Yes	
west	varchar(255)		Yes	
north	varchar(255)		Yes	
south	varchar(255)		Yes	

*Indices*

tbl_private_forest_areas_private_forest_owner_id_idx			
Columns	pf_owner_id		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

*Relationships*

pf_private_forest_owner_id : Relationship
---

From	 tbl_private_forest_owners
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical

 **tbl\_private\_forest\_trees**

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	tbl_private_forest_trees_pkey

*Columns Summary*


Name	Data Type	Constraints	Nullable	Description
pf_trees_id	int4	PK	No	
pf_owner_id	int4	FK (tbl_private_f orest_owners. pf_owner_id)	Yes	
tree_species_id	int4		Yes	
local_tree_name	varchar(255)		Yes	
num_of_trees	int4		Yes	
pf_year	varchar(255)		Yes	

*Indices*

<b>tbl_private_forest_trees_pf_owner_id_idx</b>
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Columns	pf_owner_id		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

*Relationships*

pf_owner_id : Relationship	
From	 tbl_private_forest_owners
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical

 **tbl\_pf\_user\_groups**

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	tbl_pf_user_groups_pkey

*Columns Summary*

Name	Data Type	Constraints	Nullable	Description
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pfug_id	int4	PK	No	
district_id	int4	FK (lu_districts.district_id)	No	
vdc_id	int4	FK (lu_vdcs.vdc_id)	Yes	
group_name	varchar(255)		Yes	
vdc_name	varchar(255)		Yes	
ward_numbers	varchar(100)		Yes	
remarks	varchar(255)		Yes	


#### Indices

tbl_pf_user_groups_pk_pfug_district_id_idx			
Columns	district_id		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

tbl_pf_user_groups_pk_pfug_vdc_id_idx			
Columns	vdc_id		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

### Relationships

pk_pfug_district_id : Relationship	
From	 lu_districts
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

pk_pfug_vdc_id : Relationship	
From	 lu_vdcs
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical


### lu\_protected\_area\_categories

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	lu_protected_area_categories_pkey

*Columns Summary*

Name	Data Type	Constraints	Nullable	Description
pro_area_cat_id	int4	PK	No	
category_name	varchar(255)		Yes	

*Relationships*

const_pa_protected_area_category_id : Relationship	
To	 lu_protected_areas
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

 **lu\_protected\_areas**

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	lu_protected_areas_pkey

*Columns Summary*



Name	Data Type	Constraints	Nullable	Description
protected_area_id	int4	PK	No	
pro_area_cat_id	int4	FK (lu_protected_area_categorie s.pro_area_cat_id)	No	

protected_area_name	varchar(255)		Yes	
protected_area_sqkm	numeric(10)		Yes	

### Indices

lu_protected_areas_pro_area_cat_id_idx			
Columns	pro_area_cat_id		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

### Relationships

protected_area_id : Relationship	
To	 lu_buffer_zones
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical
const_pa_protected_area_category_id : Relationship	
From	 lu_protected_area_categories
Identifying	false
Subtype	false
On Delete	No action

On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical



### lu\_buffer\_zones

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	lu_buffer_zones_pkey

### Columns Summary


Name	Data Type	Constraints	Nullable	Description
bz_code	varchar(100)	PK	No	
protected_area_id	int4	FK (lu_protected_areas.protected_area_id)	No	
buffer_zone_name	varchar(255)		Yes	
gazetted_year	int4		Yes	
area_sq_km	numeric(10)		Yes	


### Indices


lu_buffer_zones_protected_area_id_idx			
Columns	protected_area_id		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		


Index Name Pattern	{ table_name }
Clustered	Non-clustered

### *Relationships*

<b>fk_cf_bz_code : Relationship</b>	
To	 tbl_bufferzone_cfugs
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

<b>fk_lf_bz_code : Relationship</b>	
To	 tbl_bufferzone_lfugs
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

<b>fk_privf_bz_code : Relationship</b>	
To	 tbl_bufferzone_private_forests
Identifying	false

Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical
<b>protected_area_id : Relationship</b>	
From	 lu_protected_areas
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical



**tbl\_bufferzone\_cfugs**

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	tbl_bufferzone_cfugs_pkey

*Columns Summary*

Name	DataType	Constraints	Nullable	Description
bz_cfug_id	int4	PK	No	
bz_code	varchar(100)	FK (lu_buffer_zones.bz_code)	No	


cfug_code	varchar(255)	FK (tbl_community_forest_usergroups.group_code)	No	
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### Indices

tbl_bufferzone_cfugs_fk_bz_cfug_code_idx			
Columns	cfug_code		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		


tbl_bufferzone_cfugs_fk_cf_bz_code_idx			
Columns	bz_code		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

### Relationships

fk_cf_bz_code : Relationship	
From	 lu_buffer_zones
Identifying	false
Subtype	false



On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

fk_bz_cfug_code : Relationship	
From	 tbl_community_forest_usergroups
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

tbl\_bufferzone\_ifugs

 [tbl\\_bufferzone\\_private\\_forests](#)

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	tbl_bufferzone_private_forests_pkey

*Columns Summary*

Name	Data Type	Constraints	Nullable	Description
bz_pf_id	int4	PK	No	


bz_code	varchar(100)	FK (lu_buffer_zones.bz_code)	No	
private_forest_id	int4	FK (tbl_private_forest_owners.pf_owner_id)	No	

#### Indices


tbl_bufferzone_private_forests_fk_privf_bz_code_idx			
Columns	bz_code		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

tbl_bufferzone_private_forests_fk_bz_private_forest_idx			
Columns	private_forest_id		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

#### Relationships

fk_privf_bz_code : Relationship	
From	 lu_buffer_zones
Identifying	false

Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

fk_bz_private_forest_id : Relationship	
From	 tbl_private_forest_owners
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

 **tbl\_cfug\_wildlife**

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	tbl_cfug_wildlife_pkey

*Columns Summary*


Name	Data Type	Constraints	Nullable	Description
cf_wildlife_id	int4	PK	No	
cf_usergroup_code	varchar(225)		No	

wl_species_id	int4	FK (lu_wildlife_s pecies.ws_id)	No	
number_of_wildlife_hand over	int4		Yes	
number_of_wildlife_revis ion	int4		Yes	
data_collection_date	date		Yes	
fiscal_year	varchar(255)		Yes	

### Indices

tbl_cfug_wildlife_wl_species_id_idx			
Columns	wl_species_id		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

### Relationships

const_ws_id : Relationship	
From	 lu_wildlife_species
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

**tbl\_forest\_encroachment**

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	tbl_forest_encroachment_pkey

*Columns Summary*


Name	DataType	Constraints	Nullable	Description
fe_id	int4	PK	No	
district_id	int4	FK (lu_districts.district_id)	No	
total_area_encroached_hectare	numeric(10)		Yes	
num_of_households_involved	int4		Yes	
total_area_evacuated_hectare	numeric(10)		Yes	
num_of_households_removed	int4		Yes	
data_collection_date	date		Yes	

*Indices*

tbl_forest_encroachment_fe_district_id_idx			
Columns	district_id		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		

Clustered	Non-clustered
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### Relationships

fk_fe_district_id : Relationship	
From	 lu_districts
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical


### lu\_geography\_types

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	lu_geography_types_pkey

### Columns Summary

Name	Data Type	Constraints	Nullable	Description
geography_type_id	int4	PK	No	
geography_type_name	varchar(45)		Yes	

### Relationships

dis_geography_type_id : Relationship	
To	 lu_districts
Identifying	false

Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical


 **lu\_regions**

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	lu_regions_pkey

*Columns Summary*

Name	Data Type	Constraints	Nullable	Description
region_id	int4	PK	No	
region_name	varchar(45)		Yes	

*Relationships*

dis_region_id : Relationship	
To	 lu_districts
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1

Sync To Association	Yes
Data Model	Physical

### lu\_districts

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	lu_districts_pkey

### Columns Summary

Name	Data Type	Constraints	Nullable	Description
district_id	int4	PK	No	
region_id	int4	FK (lu_regions.region_id)	No	
geography_type_id	int4	FK (lu_geography_types.geography_type_id)	Yes	
district_name	varchar(45)		Yes	
district_code	varchar(45)		Yes	

### Indices


lu_districts_geography_type_id_idx			
Columns	geography_type_id		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		




Clustered	Non-clustered
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lu_districts_region_id_idx			
Columns	region_id		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		


#### *Relationships*

prof_district_id : Relationship	
To	 tbl_protected_forests
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical

fk_gmf_district_id : Relationship	
To	 tbl_gov_managed_forests
Identifying	false
Subtype	false
On Delete	No action
On Update	No action


To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical


vdc_district_id : Relationship	
To	 lu_vdc
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical

const_cfug_district_id : Relationship	
To	 tbl_community_forest_usergroups
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical


fk_ref_district_id : Relationship	
To	 tbl_religious_forest_usergroups


Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical


fk_fe_district_id : Relationship	
To	 tbl_forest_encroachment
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

collf_district_id : Relationship	
To	 tbl_collaborative_forests
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes


Data Model	Physical
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dproj_district_id : Relationship	
To	 tbl_district_projects
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical

dis_id : Relationship	
To	 tbl_leasehold_forest_usergroups
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical


pk_pfug_district_id : Relationship	
To	 tbl_pf_user_groups
Identifying	false
Subtype	false
On Delete	No action

On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical


dprof_district_id : Relationship	
To	 tbl_district_profiles
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical

pf_district_id : Relationship	
To	 tbl_private_forest_owners
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical


ilakas_district_id : Relationship	
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To	 lu_ilakas
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical

### dis\_geography\_type\_id : Relationship

From	 lu_geography_types
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical

### dis\_region\_id : Relationship

From	 lu_regions
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

 lu\_ilakas

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	lu_ilakas_pkey


*Columns Summary*

Name	Data Type	Constraints	Nullable	Description
ilaka_id	int4	PK	No	
district_id	int4	FK (lu_districts.district_id)	Yes	
ilaka_name	varchar(255)		Yes	

*Indices*


lu_ilakas_district_id_idx			
Columns	district_id		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{table_name}		
Clustered	Non-clustered		

*Relationships*


const_cfug_ilaka_id : Relationship	
To	 tbl_community_forest_usergroups
Identifying	false

Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical

#### const\_sec\_ilaka\_id : Relationship

To	 lu_sectors
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical

#### ilakas\_district\_id : Relationship

From	 lu_districts
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical



 **lu\_sectors**

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	lu_sectors_pkey


*Columns Summary*


Name	Data Type	Constraints	Nullable	Description
sector_id	int4	PK	No	
ilaka_id	int4	FK (lu_ilakas.ilaka_id)	Yes	
sector_name	varchar(255)		Yes	

*Indices*

lu_sectors_ilaka_id_idx			
Columns	ilaka_id		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		

*Relationships*

const_cfug_sector_id : Relationship	
To	 tbl_community_forest_usergroups
Identifying	false
Subtype	false

On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical
<b>const_sec_ilaka_id : Relationship</b>	
From	 lu_ilakas
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical

 **lu\_vdcs**

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	lu_vdcs_pkey


*Columns Summary*


Name	Data Type	Constraints	Nullable	Description
vdc_id	int4	PK	No	
district_id	int4	FK (lu_districts.district_id)	Yes	
vdc_name	varchar(255)		Yes	

### Indices

lu_vdcs_district_id_idx			
Columns	district_id		
	Project Management	Name	Value
Unique	false		
Bitmap	false		
Fulltext	false		
Index Name Pattern	{ table_name }		
Clustered	Non-clustered		


### Relationships

fk_ref_vdc_id : Relationship	
To	 tbl_religious_forest_usergroups
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical


pf_vdc_id : Relationship	
To	 tbl_private_forest_owners
Identifying	false
Subtype	false
On Delete	No action
On Update	No action

To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical

**pk\_pfug\_vdc\_id : Relationship**

To	 tbl_pf_user_groups
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical



**vdc\_id0 : Relationship**

To	 tbl_leasehold_forest_usergroups
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical

**fk\_gmf\_vdc\_id : Relationship**

To	 tbl_gov_managed_forests
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Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical

<b>const_cf_vdc_id : Relationship</b>	
To	 tbl_cfug_addresses
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical
<b>vdc_district_id : Relationship</b>	
From	 lu_districts
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical


 **lu\_forest\_types**


Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	lu_forest_types_pkey

*Columns Summary*

Name	Data Type	Constraints	Nullable	Description
lu_forest_type_id	int4	PK	No	
lu_forest_type_description	varchar(255)		Yes	

*Relationships*

<b>const_ad_forest_type_id : Relationship</b>	
To	 tbl_cfug_annuals
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical

<b>const_cfug_forest_type_id : Relationship</b>	
To	 tbl_community_forest_usergroups
Identifying	false
Subtype	false
On Delete	No action

On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical



#### lu\_forest\_conditions

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	lu_forest_conditions_pkey


#### Columns Summary

Name	Data Type	Constraints	Nullable	Description
lu_forest_condition_id	int4	PK	No	
lu_forest_condition_code	varchar(45)		Yes	
lu_forest_condition_description	varchar(255)		Yes	

#### Relationships

const_ad_forest_condition_id : Relationship	
To	tbl_cfug_annuals
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes

Data Model	Physical
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const_cfug_forest_condition_id : Relationship	
To	 tbl_community_forest_usergroups
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical


 **lu\_vegetation\_types**

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	lu_vegetation_types_pkey

*Columns Summary*


Name	Data Type	Constraints	Nullable	Description
lu_vegetation_type_id	int4	PK	No	
lu_vegetation_type_code	varchar(255)		Yes	
lu_vegetation_type_name	varchar(255)		Yes	

*Relationships*

const_ad_vegetation_type_id : Relationship	
To	 tbl_cfug_annuals



Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical

const_cfug_vegetation_type_id : Relationship	
To	 tbl_community_forest_usergroups
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical

 **lu\_social\_categories**


Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	lu_social_categories_pkey


*Columns Summary*


Name	DataType	Constraints	Nullable	Description
social_category_id	int4	PK	No	

social_category	varchar(255)		Yes	
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*Relationships*


<b>cosect_cat_id : Relationship</b>	
To	 tbl_cfug_executives members
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical


<b>tres_cat_id : Relationship</b>	
To	 tbl_cfug_executives members
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical


<b>chair_cat_id : Relationship</b>	
To	 tbl_cfug_executives members
Identifying	false
Subtype	false

On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical

sect_cat_id : Relationship	
To	 tbl_cfug_executives members
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical

const_cfhh_s_category_id : Relationship	
To	 tbl_cfug_households
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical

cochair_cat_id : Relationship	
To	 tbl_cfug_executives members
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical

mem_social_category_id : Relationship	
To	 tbl_cfug_members
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical


 **lu\_tree\_species**


Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	lu_tree_species_pkey

### Columns Summary


Name	Data Type	Constraints	Nullable	Description
tree_species_id	int4	PK	No	
tree_species_common_name	varchar(45)		Yes	
tree_species_botanical_name	varchar(45)		Yes	


### Relationships


fk_regen_tree_sp_id : Relationship	
To	 tbl_cfug_regeneration_status
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

fk_tts_lu_tree_species : Relationship	
To	 tbl_cfug_total_timber_sales
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes

Data Model	Physical
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fk_fti_tree_sp_id : Relationship	
To	 tbl_cfug_fallen_tr_inventories
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

fk_fip_tree_sp_id : Relationship	
To	 tbl_cfug_forest_inventories
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

tps_tree_spei_id : Relationship	
To	 tbl_cfug_timber_productions
Identifying	false
Subtype	false
On Delete	No action

On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical



#### lu\_forest\_products

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	lu_forest_products_pkey


#### Columns Summary

Name	Data Type	Constraints	Nullable	Description
lu_forest_product_id	int4	PK	No	
forest_product_name	varchar(255)		Yes	
forest_product_unit	varchar(255)		Yes	

#### Relationships

fk_collf_fp_id : Relationship	
To	tbl_collf_sales_rev_forest_products
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes

Data Model	Physical
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fpps_fp_id : Relationship	
To	 tbl_cfug_non_timber_productions
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical


 **lu\_wellbeing\_status**

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	lu_wellbeing_status_pkey

*Columns Summary*

Name	Data Type	Constraints	Nullable	Description
wellbeing_status_id	int4	PK	No	
wellbeing_status	varchar(100)		Yes	

*Relationships*

mem_wellbeing_status_id : Relationship	
To	 tbl_cfug_members
Identifying	false



Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical



### lu\_wildlife\_species

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	lu_wildlife_species_pkey


### Columns Summary

Name	Data Type	Constraints	Nullable	Description
ws_id	int4	PK	No	
ws_name	varchar(45)		Yes	

### Relationships

const_ws_id : Relationship	
To	tbl_cfug_wildlife
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes

Data Model	Physical
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const_hwc_ws_id : Relationship	
To	 tbl_cfug_hu_liv_wildlife_conflicts
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical


 **lu\_community\_forest\_activities**

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	lu_community_forest_activities_pkey

*Columns Summary*

Name	Data Type	Constraints	Nullable	Description
cf_activity_id	int4	PK	No	
cf_activity_name	varchar(225)		Yes	

*Relationships*

cf_activity_id : Relationship	
To	 lu_cf_sub_activities
Identifying	false

Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical



#### lu\_cf\_sub\_activities

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	lu_cf_sub_activities_pkey

#### Columns Summary


Name	Data Type	Constraints	Nullable	Description
cf_sub_activity_id	int4	PK	No	
cf_activity_id	int4	FK (lu_community_forest_activities.cf_activity_id)	Yes	
cf_activity_unit	varchar(225)		Yes	
cf_sub_activity_name	varchar(255)		Yes	


#### Indices

lu_cf_sub_activities_cf_activity_id_idx			
Columns	cf_activity_id		
	Project Management	Name	Value
Unique	false		


Bitmap	false
Fulltext	false
Index Name Pattern	{ table_name }
Clustered	Non-clustered


### *Relationships*


<b>cf_sub_activity_id2 : Relationship</b>	
To	 tbl_cfug_community_dev_activities
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical


<b>cf_sub_activity_id1 : Relationship</b>	
To	 tbl_cfug_capacity_building_activities
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

<b>const_fpa_sub_activity_id : Relationship</b>	
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To	 tbl_cfug_forest_protection_activities
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical

<b>sub_activity_id : Relationship</b>	
To	 tbl_cfug_fms_activity_expenses
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical

<b>cf_sub_activity_id0 : Relationship</b>	
To	 tbl_cfug_income_gen_activities
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1

Sync To Association	Yes
Data Model	Physical
<b>cf_activity_id : Relationship</b>	
From	 lu_community_forest_activities
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical


 **lu\_forest\_protection\_approaches**

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	lu_forest_protection_approaches_pkey

*Columns Summary*

Name	Data Type	Constraints	Nullable	Description
fp_approach_id	int4	PK	No	
fp_method_name	varchar(255)		Yes	

*Relationships*

<b>const_fpa_method_id : Relationship</b>	
To	 tbl_cfug_forest_protection_activities
Identifying	false

Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical



#### lu\_positive\_forest\_area\_changes

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	lu_positive_forest_area_changes_pkey

#### Columns Summary

Name	Data Type	Constraints	Nullable	Description
p_fac_id	int4	PK	No	
forest_area_changes_description	varchar(255)		Yes	

#### Relationships

fk_pos_fac_id : Relationship	
To	tbl_cfug_positive_forest_area_changes
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1

Sync To Association	Yes
Data Model	Physical



#### lu\_negative\_forest\_area\_changes

Name	Value
Data Model	Physical
Schema	public
Primary Key Constraint Name	lu_negative_forest_area_changes_pkey

#### Columns Summary

Name	Data Type	Constraints	Nullable	Description
n_fac_id	int4	PK	No	
forest_area_changes_description	varchar(255)		Yes	

#### Relationships

fk_nfac_id : Relationship	
To	tbl_cfug_negative_forest_area_changes
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	1
Sync To Association	Yes
Data Model	Physical



#### lu\_fiscal\_years

Name	Value
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Data Model	Physical
Schema	public
Primary Key Constraint Name	lu_fiscal_years_pkey

*Columns Summary*


Name	DataType	Constraints	Nullable	Description
id	int4	PK	No	
fiscal_year	varchar(255)		Yes	

*Relationships*

fr_fy_id : Relationship	
To	 tbl_collf_revenues
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical

fp_fy_id : Relationship	
To	 tbl_collf_productions
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1

Sync To Association	Yes
Data Model	Physical

fk_collf_sr_fy_id : Relationship	
To	 tbl_collf_sales_rev_forest_products
Identifying	false
Subtype	false
On Delete	No action
On Update	No action
To Multiplicity	0..*
From Multiplicity	0..1
Sync To Association	Yes
Data Model	Physical