# logo**DATABASE SCHEMA**

This System is designed to make the process of Monitoring and Evaluation for Federal Government, federal ministries, state ministries, state governments and many Non- governmental organizations (NGO) easier, quicker, more accurate and available.

The schema captures the tables as given in the Data model. The table names as written do not follow the naming convention used in the database although the names are same. This document also describes the relationship between these tables, describes the tables and then lists its columns and constraints.

*This documentation is subject to change as requirement analysis undergoes continuous reviews.*

# **LOOKUP TABLES**

**MethodOfMeasurements:**

This table stores the method of measurement.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **COLUMN** | **DATATYPE** | **DOMAIN** | **CONSTRAINT** | **DEFAULT VALUE** |
| MethodOfMeasureID | Varchar(8) | Ob, Qst, Intv, Acv | PK\_MethodOfMeasurements | — |
| Description | Varchar (32) | Observation, Questionnaires, Interview, Archives | Not null | — |

**QuestionStatus:**

This table stores the status of a question.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **COLUMN** | **DATATYPE** | **DOMAIN** | **CONSTRAINT** | **DEFAULT VALUE** |
| QuestionStatusID | Char(3) | {Act, Nac} | PK\_QuestionStatus | — |
| Description | Varchar(16) | {Active, Not Active} | Not null | — |

**ResultTypes:**

This stores the type of reply a question can have.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **COLUMN** | **DATATYPE** | **DOMAIN** | **CONSTRAINT** | **DEFAULT VALUE** |
| ResultTypeID | Char(3) | Num, Txt | PK\_ResultTypes | — |
| Description | Varchar(16) | {Number, Text} | Not null | — |

**Questions:**

This keeps record of questions issued to the respondents.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **COLUMN** | **DATATYPE** | **DOMAIN** | **CONSTRAINT** | **DEFAULT VALUE** |
| QuestionID | Integer(5)  Auto increment | — | PK\_Questions | — |
| IndicatorID | char(10) | HIV, P,ILT,PTTR, F&D, MAL | PK\_Questions  FK\_Questions\_IndicatorID | — |
| QuestionStatusID | Char(3) | {Act, Nac} | FK\_Questions\_QuestionStatusID | — |
| Description | Varchar(255) | — | Null | — |
| Instructions | Varchar(255) | — | Null | — |
| Hint | Varchar(255) | — | Not Null | — |
| TypeID | Char(3) |  | FK\_Questions\_TypeID |  |
| ModifiedBy | Varchar(20) | {Admin,User,Supervisor, Others} | FK\_Questions\_ ModifiedBy | - |
| ModifiedAt | Timestamp | - |  |  |

**IndicatorStatus:**

This table contains the status of an indicator.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **COLUMN** | **DATATYPE** | **DOMAIN** | **CONSTRAINT** | **DEFAULT VALUE** |
| IndicatorStatusID | Char(3) | {Act, Nac} | PK\_IndicatorStatus | — |
| Description | Varchar(16) | {Active, Not Active} | Not null | — |

**IndicatorClasses:**

This keeps information on the various types of classes an indicator can belong to**.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **COLUMN** | **DATATYPE** | **DOMAIN** | **CONSTRAINT** | **DEFAULT VALUE** |
| IndicatorClassID | char(10) | H,Ed,Ent,Tele,E&R, Env, UNE, AR, CMR, RP | PK\_IndicatorClasses | — |
| Description | Varchar(100) | Health, Education, Entertainment, Telecommunication, Enrolment and Registration, Sports, Agriculture, Transportation, Environment, Unemployment Rate, Accident Rate, Child Mortality Rate, Rice Production, etc | Not null | — |

**Indicators:**

This stores various indicators in an indicator class.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **COLUMN** | **DATATYPE** | **DOMAIN** | **CONSTRAINT** | **DEFAULT VALUE** |
| IndicatorID | Char(10) | HIV, ILT, SP, F&D, MAL, | PK\_ Indicators | — |
| Name | Varchar(60) | HIV, Illiteracy, Students Performance, Flood & Drought, Malaria |  |  |
| IndicatorStatusID | Char(3) | {Act, Nac} | FK\_Indicators\_IndicatorStatusID | — |
| IndicatorClassID | Char(10) | {H, Ed, Ent, Tele, finance} | FK\_Indicators\_IndicatorClassID | — |
| ModifiedBy | Varchar(20) | {Admin,user,others} | FK\_Indicators\_ ModifiedBy |  |
| ModifiedAt | Timestamp |  | - | - |

**FrequencyOfMeasures**

This stores information on the duration of measure for an indicator.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **COLUMN** | **DATATYPE** | **DOMAIN** | **CONSTRAINT** | **DEFAULT VALUE** |
| FrequencyID | Char(3) | D, Bw, W, Fn, M, Q, Ba, A | PK\_FrequencyOfMeasures | — |
| Description | Varchar(32) | Daily, Biweekly ,Weekly, Fortnightly, Monthly, Quarterly, bi-annual, annually | Not null | — |
| EffectiveStartDate | Date | — | Not Null | — |
| EffectiveEndDate | Date | — | — | — |

**ScheduleActiveStatus:**

This stores the Status of a scheduled indicator.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **COLUMN** | **DATATYPE** | **DOMAIN** | **CONSTRAINT** | **DEFAULT VALUE** |
| StatusID | Char(3) | {Act, Nac} | PK\_ScheduleActiveStatus | — |
| Description | Varchar(16) | {Active, Not Active} | Not null |  |

**FacilityServices:**

This stores the services rendered by a facility.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **COLUMN** | **DATATYPE** | **DOMAIN** | **CONSTRAINT** | **DEFAULT VALUE** |
| ServiceID | Char(10) | Edu, Med, Fin, Infrast, Agric, Ent | PK\_FacilityServices | — |
| Name | Varchar(60) | Educational, Medical, Financial, Infrastructure( Telecommunication, Electricity, Transportation)Agriculture, Entertainment | Not Null | — |

**FacilityStatus:**

This stores the status of a facility to be monitored.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **COLUMN** | **DATATYPE** | **DOMAIN** | **CONSTRAINT** | **DEFAULT VALUE** |
| FacilityStatusID | Char(3) | {Act, Nac} | PK\_FacilityStatus | — |
| Description | Varchar(16) | {Active, Not Active} | Not null |  |

**FacilityTypes:**

This stores the type of facility available.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **COLUMN** | **DATATYPE** | **DOMAIN** | **CONSTRAINT** | **DEFAULT VALUE** |
| FacilityTypeID | Char(10) | Sch, Hosp, Bank, Mkt, Ap, Fs, Pgc | PK\_FacilityTypes | — |
| Name | Varchar(50) | Schools, Hospitals, Banks, Market, Airport, Filling Stations, Power Generating Company | Not Null | — |

**FacilityContacts:**

This stores the contact gotten from the Facility.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **COLUMN** | **DATATYPE** | **DOMAIN** | **CONSTRAINT** | **DEFAULT VALUE** |
| ContactID | Varchar(50) | {Doctor, Director,Principal, others} | PK\_FacilityContacts | — |
| ContactEmail | Varchar(32) | — | Not null | — |
| PhoneNumber | Varchar(32) | — | Not null |  |
| SurName | Varchar(32) | — | Not null |  |
| FirstName | Varchar(32) | — | Not null |  |
| MiddleName | Varchar(32) | — |  |  |

**Teams:**

This stores information of the various teams that carry out evaluation.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **COLUMN** | **DATATYPE** | **DOMAIN** | **CONSTRAINT** | **DEFAULT VALUE** |
| TeamID | Varchar(5) | 1-10, A-Z | PK\_Teams | — |
| Description | Varchar(32) | Team 1, Team A, etc | Not Null | — |

**MaritalStatus:**

This stores the marital status of a human respondent.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **COLUMN** | **DATATYPE** | **DOMAIN** | **CONSTRAINT** | **DEFAULT VALUE** |
| MaritalID | Char(5) | {M, S, D, S, W, Wdr} | PK\_MaritalStatus | — |
| Description | Varchar(16) | { Single, Married, Divorced, Separated, Widow, Widower} | Not Null | — |

**Gender:**

This stores the gender of a human respondent.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **COLUMN** | **DATATYPE** | **DOMAIN** | **CONSTRAINT** | **DEFAULT VALUE** |
| Sex | char(1) | {M, F} | PK\_Gender | — |
| Description | Varchar(6) | {Male, Female} | Not Null | — |

**DataSources**

This stores information on the type of equipment used to carry out the evaluation.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **COLUMN** | **DATATYPE** | **DOMAIN** | **CONSTRAINT** | **DEFAULT VALUE** |
| SourceID | char(10) | {Phone, Tab, L, P, Phcont, others} | PK\_DataSources | — |
| Description | Varchar(64) | {Phones, Tablets, Laptops, Papers, Physical Contacts, others} | Not Null | — |

**UserRoles:**

This stores the roles a user can have.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **COLUMN** | **DATATYPE** | **DOMAIN** | **CONSTRAINT** | **DEFAULT VALUE** |
| RoleID | Varchar(20) | {Admin, User, Supervisor, Registrar, Manage Indicators, Event Scheduler, others} | PK\_UserRoles | — |
| Description | Varchar(100) | Manages all Events, Enrollment and Registration, Manages the active Event, Registers and Print Reports, Deactivate/Activate Indicators, Schedule Events | Not null | — |

**UserLogin**

This stores Login details of Users.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **COLUMN** | **DATATYPE** | **DOMAIN** | **CONSTRAINT** | **DEFAULT VALUE** |
| Username | Interger  Auto Increment | Number | PK\_Username  FK\_Users\_Username | — |
| LoginTime | Timestamp |  | Not null | — |
| LogoutTime | Timestamp |  |  |  |

**PermissionTypes:**

This stores information on the permissions that are granted to various roles.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **COLUMN** | **DATATYPE** | **DOMAIN** | **CONSTRAINT** | **DEFAULT VALUE** |
| PermissionID | Varchar(20) | MALLE, M&R,MACE,RAPR, DAI,SCHE | PK\_PermissionTypes | — |
| Description | Varchar(100) | Manages all Events, Enrollment and Registration, Manages the active Event, Registers and Print Reports, Deactivate/Activate Indicators, Schedule Events | Not Null | — |

**AddressTypes:**

This stores information on the types of adresses.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **COLUMN** | **DATATYPE** | **DOMAIN** | **CONSTRAINT** | **DEFAULT VALUE** |
| TypeID | Varchar(5) | {Con, Res} | PK\_AddressTypes | — |
| Description | Varchar(16) | {Contact, Residential} | Not null | — |

**Continents**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **COLUMN** | **DATATYPE** | **DOMAIN** | **CONSTRAINT** | **DEFAULT VALUE** |
| ContinentCode | Char(5) | {Afr,Asia etc} | PK\_ContinentCode | — |
| Name | Varchar(30) | {Africa, Asia etc} | Not null | — |

**Countries:**

This stores information on all Countries.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **COLUMN** | **DATATYPE** | **DOMAIN** | **CONSTRAINT** | **DEFAULT VALUE** |
| CountryCode | char(3) | Nig, SA,Ind, etc | PK\_Countries | — |
| Name | Varchar(64) | Nigeria, South Africa, India etc | Not Null | — |
| ContinentCode | char(5) | Asia, Ant, Afr, NAmr, Aust, SAmr, Eup | FK \_Countries\_ ContinentCode | — |

**Zones:**

This stores information on the zones in a country.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **COLUMN** | **DATATYPE** | **DOMAIN** | **CONSTRAINT** | **DEFAULT VALUE** |
| ZoneCode | Varchar(5) | NC,NE,NW,SW,SE,SS | PK\_Zones | — |
| CountryCode | Char(3) | Nig, SA,Ind, etc | FK\_Zones\_CountryCode | — |
| Description | Varcahar(64) | North Central, North East etc | Not null |  |

**LevelNames:**

This stores information on the levels of various countries.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **COLUMN** | **DATATYPE** | **DOMAIN** | **CONSTRAINT** | **DEFAULT VALUE** |
| CountryCode | Char(3) | {NGA, SA,IND,others} | PK\_LevelNames  FK\_LevelNames\_CountryCode | — |
| Level1name | Varchar(64) | {State, Region, District, others} | — | — |
| Level2name | Varchar(64) | {LGA, Division,Others} | — | — |
| Level3name | Varchar(64) | {Ward, Council,others} | — |  |
| ModifiedBy | Varchar(20) | - | FK\_LevelNames\_ ModifiedBy | - |
| ModifiedAt | Timestamp |  | - | - |

# **BASE TABLES**

**ScheduledActiveIndicators:**

This stores information on the indicators that would be used for an evaluation.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **COLUMN** | **DATATYPE** | **DOMAIN** | **CONSTRAINT** | **DEFAULT VALUE** |
| ScheduleID | Varchar(16) | A1, A2 etc | PK\_ScheduledActiveIndicators | — |
| QuestionID | Integer  Auto\_increment | — | PK\_ScheduledActiveIndicators  FK\_ScheduledActiveIndicators\_QuestionID | — |
| IndicatorStatusID | Char(3) | {Act, Nac} | FK\_ScheduledActiveIndicator s\_StatusID |  |
| IndicatorID | Varchar(16) | — | PK\_ScheduledActiveIndicators,  FK\_ScheduledActiveIndicators\_IndicatorID |  |
| StartDate | Date | — | Not Null |  |
| EndDate | Date | — | Not Null |  |
| MinimumScoreValue | Int | — |  |  |
| MaximummScoreValue | Int | — |  |  |
| FrequencyID | Char(3) | — | FK\_ ScheduledActiveIndicators\_FrequencyID |  |
| MethodMeasureID | Varchar(8) | — | FK\_ ScheduledActiveIndicators\_MethodMeasureID |  |
| ModifiedBy | Varchar(20) | - | FK\_ ScheduledActiveIndicators\_ ModifiedBy |  |
| ModifiedAt | Timestamp |  |  |  |

**HumanRespondents:**

This stores details of a human respondent.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **COLUMN** | **DATATYPE** | **DOMAIN** | **CONSTRAINT** | **DEFAULT VALUE** |
| HumanID | Integer  Auto\_increment | Numbers | PK\_HumanRespondents | — |
| Surname | Varchar(32) | — | Not Null | — |
| MiddleName | Varchar(32) | — | — |  |
| FirstName | Varchar(32) | — | Not Null |  |
| DateOfBirth | Date | — | Not null |  |
| Sex | Char(1) | {M,F} | FK\_HumanRespondents**\_**Sex |  |
| MaritalID | Char(5) | {M,S,D,Wd,Wdr} | FK\_HumanRespondents**\_**MaritalID |  |
| ModifiedBy | Varchar(30) |  | FK\_HumanRespondents**\_** ModifiedBy | - |
| ModifiedAt | Timestamp |  |  |  |
| UserStatus | Char(3) | {Act,Nac} | Not Null | Nac |

**Facilities:**

This stores information of a facility.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **COLUMN** | **DATATYPE** | **DOMAIN** | **CONSTRAINT** | **DEFAULT VALUE** |
| FacilityID | Integer  Auto Increment |  | PK\_Facilities | — |
| FacilityTypeID | Char(3) | {Sch, Hosp, Bank, Mkt, Ap, Fs, Pgc, others} | FK\_Facility\_FacilityTypeID | — |
| ContactID | Integer  Auto Increment |  | FK\_Facilities\_ ContactID | — |
| FacilityStatusID | Char(3) | {Act, Nac} | FK\_Facilities\_StatusID | — |
| ServiceTypeID | Char(3) | — | FK\_Facilities\_ServiceTypeID | — |
| ModifiedBy | Varchar(30) |  | FK\_Facilities\_ ModifiedBy |  |
| ModifiedAt | Timestamp |  |  |  |
| UserStatus | Char(3) | {Act, Nac} | Not Null | Nac |

**Respondents:**

This stores information on the type who or where that is evaluated.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **COLUMN** | **DATATYPE** | **DOMAIN** | **CONSTRAINT** | **DEFAULT VALUE** |
| RespondentID | Interger  Auto\_Increment |  | PK\_Respondents | — |
| Description | Varchar(50) |  |  | \_\_\_\_\_ |
| FacilityID | Varchar(16) | {Hosp, Sch, Bank ,others} | FK\_Respondents\_ FacilityID |  |
| HumanID | Integer  Auto\_increment |  | FK\_Respondents\_ HumanID |  |
| ModifiedBy | Varchar(30) |  | FK\_Respondents\_ ModifiedBy |  |
| ModifiedAt | Timestamp |  |  |  |
| UserStatus | char(3) | {Ac,Nac} | Not Null | Nac |

**TeamRespondents:**

This keeps record of who or where an evaluation was carried out.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **COLUMN** | **DATATYPE** | **DOMAIN** | **CONSTRAINT** | **DEFAULT VALUE** |
| RespondentID | Integer  Auto\_increment |  | PK\_TeamRespondents,  FK\_ TeamRespondents\_RespondentID | — |
| TeamID | Varchar(5) | 1-10, A-Z | PK\_TeamRespondents,  FK\_ TeamRespondents\_TeamID | — |
| ModifiedBy | Vachar(30) |  | FK\_ TeamRespondents\_ ModifiedBy |  |
| ModifiedAt | Timestamp |  |  |  |
| UserStatus | Char(3) | {Ac, Nac} | Not Null | Nac |

**Measures:**

This keeps the answers to question used in an evaluation.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **COLUMN** | **DATATYPE** | **DOMAIN** | **CONSTRAINT** | **DEFAULT VALUE** |
| ScheduleID | Varchar(16) | A1, A2 etc | PK\_Measure,  FK\_Measures \_ScheduledID | — |
| QuestionID | Integer  Auto\_increment | — | PK\_Measure,  FK\_Measures \_QuestionID | — |
| IndicatorID | Varchar(16) | — | PK\_Measure,  FK\_Measures \_IndicatorID |  |
| DateOfMeasurement | Date | — | Not Null |  |
| CollectedOn | Date | — | Not Null |  |
| CollectedBy | Varchar(16) | — | FK\_Measures \_ CollectedBy |  |
| TeamID | Varchar(5) | — | FK\_Measures \_TeamID |  |
| Score | Int | — | Not Null |  |
| RespondentID | Integer  Auto\_increment |  | FK\_Measures \_ RespondentID |  |
| ModifiedBy | Varchar(30) |  | FK\_Measures \_ ModifiedBy |  |
| ModifiedAt | Timestamp |  |  |  |

**TeamMembers:**

This stores information on the members of a team.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **COLUMN** | **DATATYPE** | **DOMAIN** | **CONSTRAINT** | **DEFAULT VALUE** |
| TeamID | Varchar(5) | 1-10,A-Z | PK\_TeamMembers  FK\_TeamMembers\_TeamID | — |
| Username | Varchar(20) | - | PK\_TeamMembers  FK\_ TeamMembers\_Username | — |
| TeamLead | Varchar(20) | — | Not Null |  |
| ModifiedBy | Varchar(30) |  | FK\_ TeamMembers\_ ModifiedBy |  |
| ModifiedAt | Timestamp |  |  |  |
| UserStatus | Char(3) | {Act, Nac} | Not Null | Nac |

**Users:**

This stores information of a user.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **COLUMN** | **DATATYPE** | **DOMAIN** | **CONSTRAINT** | **DEFAULT VALUE** |
| Username | Varchar(20) | — | PK\_Users | — |
| Password | Varchar(25) | — | Not Null | — |
| Surname | Varchar(32) | — | Not Null |  |
| FirstName | Varchar(32) | — | — |  |
| SourceID | Char(10) | {Phone, Tab, L, P, Phcont,others} | FK\_Users\_ SourceID |  |
| RoleID | Varchar(20) | Adm,Enrl | FK\_Users\_RoleID |  |
| CapturePeriod | Date | — | — |  |
| UserStatus | Char(5) | {Act,Nac} |  |  |

**Permissions:**

This stores information on the roles and their permissions.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **COLUMN** | **DATATYPE** | **DOMAIN** | **CONSTRAINT** | **DEFAULT VALUE** |
| PermissionID | Varchar(20) | MALLE, M&R,MACE,RAPR, DAI,SCHE | PK\_PermissionTypes ,  FK\_Permissions\_PermissionID | — |
| RoleID | Varchar(20) | Admin, User, Supervisor, Registrar, Manage Indicators, Schedule Events | PK\_UserRoles,  FK\_Permissions\_RoleID | — |
| ModifiedBy | Varchar(30) |  | FK\_Permissions\_ ModifiedBy |  |
| ModifiedAt | Timestamp |  |  |  |
| UserStatus | Char(3) | {Ac, Nac} | Not Null | Nac |

**AULevel1:**

This stores information on the first level of Administration in a country.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **COLUMN** | **DATATYPE** | **DOMAIN** | **CONSTRAINT** | **DEFAULT VALUE** |
| CountryCode | Char(3) | {NGA,SA,IND,e.t.c} | PK\_ AULevel1,  FK\_AULevel1\_ CountryCode | — |
| AULevel1ID | Varchar(5) | Kd,Abj,Dh,e.t.c | PK\_AULevel1 | — |
| Name | Varchar(100) | Kaduna, Abuja, Delhi | Not null | — |

**AULevel2:**

This stores information on the Second level of Administration in a country.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **COLUMN** | **DATATYPE** | **DOMAIN** | **CONSTRAINT** | **DEFAULT VALUE** |
| CountryCode | Char(3) | Nig,SA,Ind,e.t.c | PK\_ AULevel2  FK\_AULevel2\_ CountryCode | — |
| AULevel1ID | Varchar(5) | Kd,Abj,Dh,et.c. | PK\_AULevel2,  FK\_ AULevel2ID\_ AULevel1ID | — |
| AULevel2ID | Varchar(5) | Kj,Gwa,Oh,e.t.c | PK\_AULevel2 | — |
| Name | Varchar(100) | Kuje, Gwagwalada, Ohafia, e.t.c | Not null | — |

**AULevel3:**

This stores information on the third level of Administration in a country.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **COLUMN** | **DATATYPE** | **DOMAIN** | **CONSTRAINT** | **DEFAULT VALUE** |
| CountryCode | Char(3) | Ng,Ind,SA,e.t.c | PK\_ AULevel3  FK\_AULevel3\_ CountryCode | — |
| AULevel1ID | Varchar(5) | Abj,Kd,Dh,e.t.c | PK\_ AULevel3,  FK\_AULevel3\_ AULevel1ID | — |
| AULevel2ID | Varchar(5) | Oh,Kj,Gwa,e.t.c | PK\_AULevel,  FK\_AULevel3\_ AULevel2ID | — |
| AULevel3ID | Varchar(5) | Bik,Ij,W1,Ol,Ay,e.t.c | PK\_AULevel3 | — |
| Name | Varchar(100) | Biko-Biko, Ijiom, Ward1, Olomu, Ayetoro,e.t.c | Not null | — |

**Addresses:**

This stores the possible addresses of Respondents.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **COLUMN** | **DATATYPE** | **DOMAIN** | **CONSTRAINT** | **DEFAULT VALUE** |
| AddressID | Interger  Auto\_Increment |  | PK\_ AddressID |  |
| AddressTypeID | Varchar(5) | {Con, Res} | FK\_Addresses\_ AddressTypeID |  |
| CountryCode | Char(3) | Nig,SA,Ind | FK\_Addresses\_ CountryCode |  |
| AULevel1ID | Varchar(5) | Kd,Dh,Abj | FK\_Addresses\_ AULevel1ID |  |
| AULevel2ID | Varchar(5) | Kj,Gwa,Oh | FK\_Addresses\_ AULevel2ID |  |
| AULevel3ID | Varchar(5) | Bik,Ij,W1,Ol,Ay,e.t.c | FK\_Addresses\_ AULevel3ID |  |
| RespondentID | Integer  Auto\_increment | Fac,Hum | FK\_Addresses\_ RespondentID |  |
| Addressline1 | Varchar(255) | — | Not null |  |
| Addressline2 | Varchar(255) | — | — |  |

**PRIMARY KEY CONSTRAINTS**

|  |  |  |
| --- | --- | --- |
| **CONSTRAINT** | **RELATION** | **COLUMN** |
| PK\_MethodOfMeasurements | MethodOfMeasurements | MethodOfMeasureID |
| PK\_QuestionStatus | QuestionStatus | StatusID |
| PK\_ResultTypes | ResultTypes | ResultTypeID |
| PK\_ Questions | Questions | QuestionID |
| PK\_ Questions | Questions | IndicatorID |
| PK\_IndicatorStatus | IndicatorStatus | IndicatorStatus ID |
| PK\_IndicatorClasses | IndicatorClasses | IndicatorClassID |
| PK\_Indicators | Indicators | IndicatorID |
| PK\_FrequencyOfMeasures | FrequencyOfMeasures | FrequencyID |
| PK\_ScheduleActiveStatus | ScheduleActiveStatus | StatusID |
| PK\_FacilityServices | FacilityServices | ServiceID |
| PK\_FacilityStatus | FacilityStatus | FacilityStatusID |
| PK\_FacilityTypes | FacilityTypes | FacilityTypeID |
| PK\_Teams | Teams | TeamID |
| PK\_MaritalStatus | MaritalStatus | MaritalID |
| PK\_Gender | Gender | Sex |
| PK\_DataSources | DataSources | SourceID |
| PK\_UserRoles | UserRoles | RoleID |
| PK\_Username | UserLogin | Username |
| PK\_PermissionTypes | PermissionTypes | PermissionID |
| PK\_AddressTypes | AddressTypes | TypeID |
| PK\_ContinentCode | Continents | ContinentCode |
| PK\_Countries | Countries | CountryCode |
| PK\_Zones | Zones | ZoneCode |
| PK\_LevelNames | LevelNames | CountryCode |
| PK\_ScheduledActiveIndicators | ScheduledActiveIndicators | ScheduleID |
| PK\_ScheduledActiveIndicators | ScheduledActiveIndicators | QuestionID |
| PK\_ScheduledActiveIndicators | ScheduledActiveIndicators | IndicatorID |
| PK\_Measure | Measures | ScheduleID |
| PK\_Measure | Measures | QuestionID |
| PK\_Measure | Measures | IndicatorID |
| PK\_TeamRespondents | TeamRespondents | RespondentID |
| PK\_TeamRespondents | TeamRespondents | TeamID |
| PK\_Respondents | Respondents | RespondentID |
| PK\_FacilityContacts | FacilityContacts | ContactID |
| PK\_Facilities | Facilities | FacilityID |
| PK\_HumanRespondents | HumanRespondents | HumanID |
| PK\_TeamMembers | TeamMembers | TeamID |
| PK\_TeamMembers | TeamMembers | Username |
| PK\_Users | Users | Username |
| PK\_PermissionTypes | Permissions | PermissionID |
| PK\_UserRoles | Permissions | RoleID |
| PK\_ AULevel1 | AULevel1 | CountryCode |
| PK\_ AULevel1 | AULevel1 | AULevel1ID |
| PK\_ AULevel2 | AULevel2 | CountryCode |
| PK\_ AULevel2 | AULevel2 | AULevel1ID |
| PK\_ AULevel2 | AULevel2 | AULevel2ID |
| PK\_ AULevel3 | AULevel3 | CountryCode |
| PK\_ AULevel3 | AULevel3 | AULevel1ID |
| PK\_ AULevel3 | AULevel3 | AULevel2ID |
| PK\_ AULevel3 | AULevel3 | AULevel3ID |
| PK\_ AddressID | Addresses | AddressID |

**FOREIGN KEY CONSTRAINTS**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CONSTRAINT** | **FOREIGN KEY COLUMN** | **FOREIGN COLUMN** | **ON DELETE** | **ON UPDATE** |
| FK\_Questions\_IndicatorID | IndicatorID | Indicator.IndicatorID | No action | Cascade |
| FK\_Questions\_QuestionStatusID | QuestionStatusID | Indicator.IndicatorStatusID | No action | Cascade |
| FK\_Indicators\_IndicatorStatusID | IndicatorStatusID | IndicatorStatus. IndicatorStatusID | No action | Cascade |
| FK\_Indicators\_IndicatorClassID | IndicatorClassID | IndicatorClasses.IndicatorClassID | No action | Cascade |
| FK\_Indicators\_ModifiedBy | ModifiedBy | Users.UserName | No action | Cascade |
| FK \_Countries\_ ContinentsCode | ContinentCode | Continets.ContinentCode | No action | Cascade |
| FK\_Zones\_CountryCode | CountryCode | Countries.CountryCode | No action | Cascade |
| FK\_LevelNames\_CountryCode | CountryCode | Countries.CountryCode | No action | Cascade |
| FK\_LevelNames\_ ModifiedBy | ModifiedBy | Users.UserName | No action | Cascade |
| FK\_ScheduledActiveIndicators\_QuestionID | QuestionID | Questions. QuestionID | No action | Cascade |
| FK\_ScheduledActiveIndicator s\_StatusID | StatusID | Questions.QuestionStatusID | No action | Cascade |
| FK\_ScheduledActiveIndicators\_IndicatorID | IndicatorID | Questions. IndicatorID | No action | Cascade |
| FK\_ ScheduledActiveIndicators\_FrequencyID | FrequencyID | FrequencyOfMeasure.FrequencyID | No action | Cascade |
| FK\_ ScheduledActiveIndicators\_MethodMeasureID | MethodMeasureID | MethodOfMeasurements.MethodOfMeasureID | No action | Cascade |
| FK\_Measures \_ScheduledID | ScheduledID | ScheduledActiveIndicators.ScheduledID | No action | Cascade |
| FK\_Measures \_QuestionID | QuestionID | ScheduledActiveIndicators.QuestionID |  | Cascade |
| FK\_Measures \_ IndicatorID | IndicatorID | ScheduledActiveIndicators.IndicatorID |  |  |
| FK\_Measures \_ ModifiedBy | ModifiedBy | Users.Username |  |  |
| FK\_HumanRespondents**\_**Sex | Sex | Gender.Sex |  |  |
| FK\_HumanRespondents**\_**MaritalID | MaritalID | MaritalStatus. MaritalID |  |  |
| FK\_HumanRespondents**\_** ModifiedBy | ModifiedBy | Users.Username |  |  |
| FK\_Facility\_FacilityTypeID | FacilityTypeID | FacilityType. FacilityTypeID |  |  |
| FK\_Facilities\_ ContactID | ContactID | FacilityContacts. ContactID |  |  |
| FK\_Facilities\_StatusID | StatusID | FacilityStatus.Facility StatusID |  |  |
| FK\_Facilities\_ModifiedBy | ModifiedBy | Users.Username |  |  |
| FK\_Facilities\_ServiceTypeID | ServiceTypeID | FacilityServices.ServiceID |  |  |
| FK\_Respondents\_ FacilityID | FacilityID | Facilities. FacilityID |  |  |
| FK\_Respondents\_ HumanID | HumanID | HumanRespondents. HumanID |  |  |
| FK\_Respondents\_ ModifiedBy | ModifiedBy | Users.Username |  |  |
| FK\_ TeamRespondents\_RespondentID | RespondentID | Respondents. RespondentID |  |  |
| FK\_ TeamRespondents\_TeamID | TeamID | Teams. TeamID |  |  |
| FK\_ TeamRespondents\_ ModifiedBy | ModifiedBy | Users.Username |  |  |
| FK\_Measures \_ CollectedBy | CollectedBy | TeamMembers.Username |  |  |
| FK\_Measures \_TeamID | TeamID | TeamRespondents.TeamID |  |  |
| FK\_Measures \_ RespondentID | RespondentID | TeamRespondents. RespondentID |  |  |
| FK\_TeamMembers\_TeamID | TeamID | Teams. TeamID |  |  |
| FK\_ TeamMembers\_ ModifiedBy | ModifiedBy | Users.Username |  |  |
| FK\_ TeamMembers\_Username | Username | Users.Username |  |  |
| FK\_Users\_ SourceID | SourceID | DataSources. SourceID |  |  |
| FK\_Users\_RoleID | RoleID | UserRoles.RoleID |  |  |
| FK\_Permissions\_PermissionID | PermissionID | PermissionTypes. PermissionID |  |  |
| FK\_Users\_Username | Username | Users.Username |  |  |
| FK\_Permissions\_RoleID | RoleID | UserRoles.RoleID |  |  |
| FK\_AULevel1\_ CountryCode | CountryCode | Countries. CountryCode |  |  |
| FK\_AULevel2\_ CountryCode | CountryCode | AULevel1. CountryCode |  |  |
| FK\_ AULevel2ID\_ AULevel1ID | AULevel1ID | AULevel1. AULevel1ID |  |  |
| FK\_AULevel3\_ CountryCode | CountryCode | AULevel2. CountryCode |  |  |
| FK\_AULevel3\_ AULevel1ID | AULevel1ID | AULevel2.AULevel1ID |  |  |
| FK\_AULevel3\_ AULevel2ID | AULevel2ID | AULevel2.AULevel2ID |  |  |
| FK\_Addresses\_ AddressTypeID | AddressTypeID | AddressTypes.AddressTypeID |  |  |
| FK\_Addresses\_ CountryCode | CountryCode | AULevel3. CountryCode |  |  |
| FK\_Addresses\_ AULevel1ID | AULevel1ID | AULevel3.AULevel1ID |  |  |
| FK\_Addresses\_ AULevel2ID | AULevel2ID | AULevel3.AULevel2ID |  |  |
| FK\_Addresses\_ AULevel3ID | AULevel3ID | AULevel3. AULevel3ID |  |  |
| FK\_Addresses\_ RespondentID | RespondentID | Respondents.RespondentID |  |  |