

mcs: data dictionary

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Mineral Cadastre System

2014

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Review History

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|  |  |  |  |  |
|  |  |  |  |  |

# Setup Tables

## Location: Country

Table 1: Table for Storing Country Names

|  |  |
| --- | --- |
| Config\_Country | |
| Field Name | **Description** |
| Country\_Id | PK\_Country |
| Name | Name of Setup |
| Short\_Name | ShortName |
| Description | Description |
| IsActive | IsActive/Enabled/Disabled |
| IsDefault | Default selected country name |

## Location: State / Province

Table 2: Table for Stroing State / Province Names

|  |  |
| --- | --- |
| Config\_State | |
| Field Name | **Description** |
| State\_Id | PK\_State |
| Country\_Id | FK\_Country |
| Name | Name of State |
| Short\_Name | ShortName |
| Description | Description |
| IsActive | IsActive/Enabled/Disabled |
| IsDefault | Default selected State name |

## Lacation: Division

Table 3: Table for Storing Devision Names

|  |  |
| --- | --- |
| Config\_Division | |
| Field Name | **Description** |
| Division\_Id | PK\_Division |
| Province\_Id | FK\_Province |
| Name | Name of Division |
| Short\_Name | ShortName |
| Description | Description |
| IsActive | IsActive/Enabled/Disabled |

## Lacation: District

Table 4: Table for Storing District Names

|  |  |
| --- | --- |
| Config\_District | |
| Field Name | **Description** |
| District\_Id | PK\_District |
| Division\_Id | FK\_Division |
| Name | Name of District |
| Short\_Name | ShortName |
| Description | Description |
| IsActive | IsActive/Enabled/Disabled |
|  | |

## Location: Tehsil

Table 5: Table for Storing Tehsil Names

|  |  |
| --- | --- |
| Config\_Tehsil | |
| Field Name | **Description** |
| Tehsil\_Id | PK\_Tehsil |
| District\_Id | FK\_District |
| Name | Name of District |
| Short\_Name | ShortName |
| Description | Description |
| Males | No. of male beneficiary in the population |
| Females | No. of female beneficiary in the population |
| IsActive | IsActive/Enabled/Disabled |
|  | |

## Location: Union-Council

Table 6: Table for Storing Union-Council Names

|  |  |
| --- | --- |
| Config\_Union-Council | |
| Field Name | **Description** |
| Unioncouncil\_Id | PK\_ unioncouncil |
| Tehsil\_Id | FK\_Tehsil |
| Name | Name of District |
| Short\_Name | ShortName |
| Description | Description |
| IsActive | IsActive/Enabled/Disabled |

## Location: City

Table 7: Table for Storing City Names

|  |  |
| --- | --- |
| Config\_City | |
| Field Name | **Description** |
| City\_Id | PK\_City |
| District\_Id | FK\_District |
| Name | Name of Setup |
| Short\_Name | ShortName |
| Description | Description |
| IsActive | IsActive/Enabled/Disabled |
| IsActive | IsActive/Enabled/Disabled |

## Code Master

Table 8: Table for Stroing Code Master

|  |  |
| --- | --- |
| Config\_CodeMaster | |
| Field Name | Description |
| CM\_Id | PK\_CodeMster |
| Name | Category Name |
| Display\_Name | User want to see the name |
| Description | Description |
| IsLocked | System use to lock specific category |
| IsActive | IsActive/Enabled/Disabled |

## Code Detail

Table 9: Table for Stroing Code Detail

|  |  |
| --- | --- |
| Config\_CodeDetail | |
| Field Name | Description |
| Code\_Id | PK\_CodeDetail |
| CM\_Id | FK\_CodeMaster |
| Name | Code Name |
| Display\_Name | User want to see the name for labe; |
| Short\_Name | Psudo name |
| SequenceNo | For setting priority |
| isDefault | Setting the default value |
| Description | Description |
| IsActive | IsActive/Enabaled/Disabaled |
| Value | Value for the code |
| Range\_From | valid code should starts from |
| Range\_To | valid code should ends on |
| Color | Code have specific color |

## ID Format for Naming Convension

Table 10: Table for Storing Naming Convension

|  |  |
| --- | --- |
| Config\_IdFormat | |
| Field Name | Description |
| IdF\_Id | PK\_IdFormat |
| TBL\_Name | Table Name for which ID format is to be defined |
| Prefix | Prefix User wants for the ID |
| Suffix | Suffix User wants for the ID |
| Value | Current Value |
| Date | "Yes" or "No", to make the ID Dynamic |
| Range | IDs should be generating in the range |
| Starts | IDs should start from |

## Attachments

Table 11: Table for Stroing Attachments

|  |  |
| --- | --- |
| Config\_Attachment | |
| Field Name | Description |
| Attachment\_Id | PK\_Attachment |
| TBL\_Name | Table Name for which doc is attached |
| Record\_Id | Record Id for which the doc is attached |
| Type\_Id | FK\_CodeDetail |
| Dir | Attachment Directory |
| Path | Path for the attachment |
| Duration | Duration in case of video |
| Type\_Id | Attachment Type( FK\_Code-Details) |
| Size | Attachment Size |
| Detail | Attachment Details |
| Date | Attachment Date |

## Fee Definition

Table 12: Table for Storing Fee Definition

|  |  |
| --- | --- |
| Config\_Fee\_Definition | |
| Fee\_ID | PK\_Fee |
| Fee\_Category | FK\_CodeDetail |
| Name | Fee Title |
| Description | Detail if any |
| Short\_Name | Pseudo name |
| Fee\_Amount | Amount of Fee |
| IsActive | Enable/Disabled |

## Minerals

Table 13: Table for Storing Minerals

|  |  |
| --- | --- |
| Config\_Minerals | |
| Field Name | Description |
| Mineral\_Id | PK\_Minerals |
| Mineral\_No | Read from IdsFormat table last updated. |
| Mineral\_Name | Name of the mineral |
| Mineral\_ShortName | Chemical Formula etc. |
| Mineral\_Category | FK\_CodeDetail, e.g Major /Minor |
| Mineral\_Type | FK\_CodeDetail, e.g Metallifferous/ Under Ground/Querry |
| Mineral\_Unit | FK\_CodeDetail, e.g km, acre |
| Image | Mineral Picture |
| Group | FK\_CodeDetail, e.g Preciouse /Metal |
| Description | Mineral details if any |
| isActive | Enable/Disabled |

## Licence Definition

Table 14: Table for Storing Licence Definition

|  |  |
| --- | --- |
| Config\_License\_Definition | |
| License\_Type\_ID | PK\_License\_Defination |
| Name | Name eg. Prospect License etc |
| Description | details if any |
| Short\_Name | PL EL, RL etc. |
| License\_Category\_ID | FK\_CodeDetail, e.g Small Scale or Large Scale |
| License\_Type\_ID | FK\_CodeDetail, e.g Lease or License |
| Renewal\_Years\_ID | FK\_CodeDetail, e.g Year 1,Year 2 |
| Duration\_Id | FK\_CodeDetail, e.g Year 1,Year 2 |
| Maximum\_Renewal\_Id | FK\_CodeDetail, e.g Code 1, 2,3 Times |
| Parent\_Id | Parent Definition |
| IsTransferable | True /False |

## Procedure

Table 15: Table for Storing Procedures

|  |  |
| --- | --- |
| Config\_Procedure | |
| Proc\_ID | PK\_Procedure |
| Proc\_Category | FK\_CodeDetail |
| Name | Procedure Title |
| Description | Detail if any |
| Short\_Name | Pseudo name |
| Proc\_Life | Total Life for procdure in days/months |
| IsActive | Enable/Disabled |

## Procedure Details

Table 16: Table for Stroing Procedure Details

|  |  |
| --- | --- |
| Config\_Procedure\_Detail | |
| PDetail\_ID | PK\_Config\_Procedure\_Detail |
| Proc\_ID | FK\_Config\_Procedure |
| Fee\_ID | FK\_Config\_Fee\_Definition |
| From\_Facility | FK\_Facility, It can be department, directorate or project etc. |
| To\_Facility | FK\_Facility, It can be department, directorate or project etc. |
| Duration | Duration spent in flow-1. e.g In days |
| IsRequired | Must/Optional |

## Government

Table 17: Table for Storing Government Institution Names

|  |  |
| --- | --- |
| Config\_Government | |
| Field Name | Description |
| Gov\_Id | PK\_Government |
| Name | Title |
| Short\_Name | ShortName |
| Description | Description |
| URL\_Link | Website URL for visiting its website |
| IsActive | Enabled/Disabled |

## Sector

Table 18: Table for Storing Sector Names

|  |  |
| --- | --- |
| Config\_Sector | |
| Field Name | Description |
| Section\_Id | PK\_Config\_Sector |
| Gov\_Id | FK\_Config\_Government |
| Name | Name of Setup |
| Short\_Name | ShortName |
| Description | Description |
| Gx | X-Cordinate |
| Gy | Y-Cordinate |
| IsActive | Enabaled/Disabaled |

## Facility

Table 19: Table for Storing Facility Names

|  |  |
| --- | --- |
| Config\_Facility | |
| Field Name | Description |
| Facility\_Id | PK\_Config\_Facility |
| Sector\_Id | FK\_Config\_Sector |
| Country\_Id | FK\_Config\_Country |
| State\_Id | FK\_Config\_State |
| Division\_Id | FK\_Config\_Division |
| City\_Id | FK\_Config\_City |
| Name | Title for the Department/Directrorate/Project etc. |
| Short\_Name | ShortName |
| Type | Department/Directrorate/Project etc |
| Parent\_Id | FK\_Config\_Facility e.g Department/Directrorate etc |
| Icon | Icon |
| POBox | Post Office number |
| Address | Orgaization Address |
| Phone | Telephone number |
| Mobile | Mobile number |
| Fax\_No | Fax number |
| Email | Email Address |
| Website | Website of the orgaization |
| Gx | X-Cordinate |
| Gy | Y-Cordinate |
| Description | Description |
| Sequence\_No | Used for Priority |
| IsDefault | True/False |
| IsActive | Enabaled/Disabaled |

## Module

Table 20: Table for Storing Modules

|  |  |
| --- | --- |
| Config\_Module | |
| Field Name | Description |
| Module\_Id | FK\_Config\_Modules |
| Name | Module Name |
| ShortName | ShortName |
| Icon | Icon Used for the Module on dashboard |
| Path | File Path Used for the Module on dashboard |
| IsActive | Enabaled/Disabaled |

## Role

Table 21: Table for Storing Roles

|  |  |
| --- | --- |
| Config\_Role | |
| Field Name | Description |
| Role\_Id | PK\_Config\_Role |
| Name | Role Title |
| ShortName | ShortName |
| Description | Detail |
| IsActive | Enabaled/Disabaled |

## Module Rights

Table 22: Table for Storing Module Rights

|  |  |
| --- | --- |
| Config\_Module\_Rights | |
| Field Name | Description |
| ModuleRight\_Id | PK\_Config\_Facility |
| Role\_Id | FK\_Config\_Roles |
| Module\_Id | FK\_Config\_Modules |
| IsActive | Enabaled/Disabaled |

## Previleges

Table 23: Table for Storing Privileges

|  |  |
| --- | --- |
| Config\_Privileges | |
| Field Name | Description |
| Privilege\_Id | PK\_Config\_Facility |
| Name | Privilege Name |
| ShortName | ShortName |
| Description | Remarks |
| IsActive | Enabaled/Disabaled |

## Role Privileges

Table 24: Table for Storing Role Privileges

|  |  |
| --- | --- |
| Config\_Role\_Privileges | |
| Field Name | Description |
| RolePrivilege\_Id | PK\_Config\_Role\_Privileges |
| Role\_Id | FK\_Config\_Roles |
| Module\_Id | FK\_Config\_Modules |
| Privilege\_Id | FK\_Config\_Privileges |
| IsActive | Enabaled/Disabaled |

## Users

Table 25: Table for Storing Users

|  |  |
| --- | --- |
| Config\_Users | |
| Field Name | Description |
| User\_Id | PK\_Config\_Users |
| Role\_Id | PK\_Config\_Roles |
| Facility\_Id | PK\_Config\_Facilities |
| Name | Actual Name of the user |
| UserName | UserName for account access |
| Password | Password for account access |
| ContactNo | Mobile Number |
| Email | Email Address |
| SQ | Security Question for UserName/Password Recovery |
| SA | Security Question for UserName/Password Recovery |
| UserIP | The IP address from which the user logged in |
| UserAgent | Browser Agent e.g. IE, FireFox, Chrome etc. |
| TimeStamp | the time on which user last logiged in |
| IsActive | Enabaled/Disabaled |

## Mailboxes

Table 26: Table for Storing Mailboxes

|  |  |
| --- | --- |
| Config\_Mailboxes | |
| Field Name | Description |
| Inbox\_Id | PK\_Config\_Mailboxes |
| Procedure\_Id | FK\_Config\_Procedures |
| User\_Id | FK\_Config\_Users |
| Subject | The Subject of the message |
| Message | The Actual Message |
| Email | The Email to send message |
| Reply | The Email from which the message arrived |
| Status | Read/Unread |
| DateTime | The Date and time on which message arrived |
| IsActive | Enabaled/Disabaled |

# Minerals Cadastre System Tables

## Request Master

Table 27: Table for Storing MCS Request Master

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| MCS\_Request\_Master | | | | | |
| Field Name | Description | Data Type | Length | Constraints | Data Allowed |
| Request\_Id | PK\_Request\_Master | Integer | Default | Primary Key | Only Integers, Auto Increment |
| Request\_No | For Display and Usage e.g Token No. | varchar | 10 | Not Null | Any Combiunation of Characters |
| Request\_By\_First\_Name | First Name of the Applicant | varchar | 30 | Not Null | Any Combiunation of Letters |
| Request\_By\_Middle\_Name | Middle Name of the Applicant | varchar | 30 | Null | Any Combiunation of Letters |
| Request\_By\_Last\_Name | Last Name of the Applicant | varchar | 30 | Not Null | Any Combiunation of Letters |
| Request\_CNIC | CNIC of the Applicant | varchar | 15 | Not Null | Digits With Only Hyphen |
| Request\_Email | Email of the Applicant | varchar | 255 | Null | Any Combiunation Including @ Symbol |
| Request\_Phone | Phone of the Applicant | varchar | 20 | Null | Only Integers |
| Licensce\_Type\_ID | FK\_Licence Definition | Integer | Default | Foreign Key | Only Integers |
| Mineral\_Type\_ID | Fk\_Mineral\_Definition | Integer | Default | Foreign Key | Only Integers |
| Request\_Date | Application Submission Date | DateTime | Default | Default | Only Date and Time |
| Total Area |  | varchar | 255 | Not Null | Only Integers |
| Unit\_Type\_ID | FK\_Code\_Details e.g. Acre,Miles,km etc. | Integer | Default | Foreign Key | Only Integers |
| Topo\_Sheet\_No |  | varchar | 100 | Not Null | Any Combination of Characters |
| Location\_Id | FK\_Location | Integer | Default | Foreign Key | Only Integers |
| Request\_Status | FK\_CodeDetails e.g Aprovaed,Rejected etc. | Integer | Default | Foreign Key | Only Integers |
| Request\_Status\_Date | Date of Aproval, Rejection etc. | DateTime | Default | Not Null | Only Date and Time |
| Request\_Status\_Remarks | Remarks(if any) of Aproval, Rejection etc. | Text | Default | Null | Any Combination of Characters |

## Request Coordinates

Table 28: Table for Storing Request Coordinates

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| MCS\_Request\_Coordinates | | | | | |
| Request\_Coordinates\_ID |  | Integer | Default | Primary Key | Only Integers, Auto Increment |
| Request\_ID | FK\_Request\_Master | Integer | Default | Foreign Key | Only Integers |
| Request\_Coordinates\_No | Auto format | Integer | Default | Foreign Key | Any Combiunation of Characters |
| Latitude | X | Float | Default | Not Null | Only Integers or Floating Point Numbers |
| Longitude | Y | Float | Default | Not Null | Only Integers or Floating Point Numbers |
| Elvation | Z | Float | Default | Null | Only Integers or Floating Point Numbers |

## Application Licence Details

Table 29: Table for Storing Application Licence Details

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| MCS\_Application\_License\_Details | | | | | |
| ALDetails\_ID | PK\_Application\_License\_Details | Integer | Default | Primary Key | Only Integers, Auto Increment |
| Application\_Id | FK\_Application\_License\_Master | Integer | Default | Foreign Key | Only Integers |
| First\_Name | Partner/Director/Shareholder First Name | Varchar | 30 | Not Null | Any Combiunation of Letters |
| Middle\_Name | Partner/Director/Shareholder Middle Name | Varchar | 30 | Null | Any Combiunation of Letters |
| Last\_Name | Partner/Director/Shareholder Last Name | Varchar | 30 | Not Null | Any Combiunation of Letters |
| Father\_Name | Partner/Director/Shareholder Father Name | Varchar | 15 | Not Null | Any Combiunation of Letters |
| CNIC | CNIC of the Applicant | Varchar | 15 | Not Null | Digits With Only Hyphen |
| Email | Email of the Applicant | Varchar | 255 | Null | Any Combiunation Including @ Symbol |
| Phone | Phone Number of the Applicant | Varchar | 15 | Null | Only Integers |
| Mobile | Mobile Number of the Applicant | Varchar | 15 | Null | Only Integers |
| Country\_Id | FK\_Country | Integer | Default | Foreign Key | Only Integers |
| Occuption\_ID | FK\_Occupation | Integer | Default | Foreign Key | Only Integers |
| Address | Address of the Applicant | Varchar | 255 | Null | Any Combination of Letters and Numbers |
| City\_ID | FK\_City | Integer | Default | Foreign Key | Only Integers |
| Type\_ID | Partner or Director name or Shareholder | Varchar | Default | Foreign Key | Only Integers |
| Sharholder\_Amount | In case of shareholder amount should be necessary | Float | Default | Not Null | Only Floating Point and Integer Numbers |

## Application Licence Master

Table 30: Table for Storing Application Licence Master

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| MCS\_Application\_License\_Master | | | | | |
| Field Name | Description | Data Type | Length | Constraints | Data Allowed |
| Application\_Id | PK\_Application\_License\_Master | Integer | Default | Primary Key | Only Integers, Auto Increment |
| Licensce\_Type\_ID | FK\_Licence Definition | Integer | Default | Foreign Key | Only Integers |
| Application\_No | Using to Request No | Integer | Default | Not Null | Only Integers |
| Request\_ID | FK\_Application\_Request | Integer | Default | Foreign Key | Only Integers |
| Mineral\_ID | FK\_Licence Definition | Integer | Default | Foreign Key | Only Integers |
| Mineral\_Type\_ID | Fk\_Mineral\_Definition | Integer | Default | Foreign Key | Only Integers |
| Application\_Date | Application Submission Date | DateTime | Default | Not Null | Only Date and Time |
| Total Area |  | varchar | 255 | Not Null | Only Integers |
| Unit\_Type\_ID | FK\_Code\_Details e.g. Acre,Miles,km etc. | Integer | Default | Foreign Key | Only Integers |
| Topo\_Sheet\_No |  | varchar | 100 | Not Null | Any Combination of Characters |
| Location\_Id | FK\_Location | Integer | Default | Foreign Key | Only Integers |
| Application\_Status | FK\_CodeDetails e.g Aprovaed,Rejected etc. | Integer | Default | Foreign Key | Only Integers |
| Application\_Status\_Date | Date of Aproval, Rejection etc. | DateTime | Default | Not Null | Only Date and Time |
| Application\_Status\_Remarks | Remarks(if any) of Aproval, Rejection etc. | Text | Default | Null | Any Combination of Characters |
| Applicant\_Type\_ID | Individual/Company/Partner | Integer | Default | Foreign Key | Only Integers |
| First\_Name | First Name of the Applicant | varchar | 30 | Not Null | Any Combiunation of Letters |
| Middle\_Name | Middle Name of the Applicant | varchar | 30 | Null | Any Combiunation of Letters |
| Last\_Name | Last Name of the Applicant | varchar | 30 | Not Null | Any Combiunation of Letters |
| CNIC | CNIC of the Applicant | varchar | 15 | Not Null | Digits With Only Hyphen |
| Email | Email of the Applicant | varchar | 255 | Null | Any Combiunation Including @ Symbol |
| Phone | Phone Number of the Applicant | varchar | 15 | Null | Only Integers |
| Mobile | Mobile Number of the Applicant | varchar | 15 | Null | Only Integers |
| Country\_ID | Nationality of the Applicant |  |  |  |  |
| Place | Place of the Applicant | varchar | Default | Not Null | Any Combination of Characters |
| Business\_Nature | Business name of the Applicant | varchar | Default | Null | Any Combination of Characters |
| Capital | Amount | Float | Default | Null | Any Combination of Characters |

## MCS Survey

Table 31: Table for MCS Survey

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| MCS\_Survey | | | | | |
| Field Name | Description | Data Type | Length | Constraints | Data Allowed |
| Survey\_Id | PK\_Survey | Integer | Default | Primary Key | Only Integers, Auto Increment |
| Application\_Id | FK\_Application | Integer | Default | Foreign Key | Only Integers |
| Survey\_No | For Display and Usage e.g Token No. | varchar | 10 | Not Null | Any Combiunation of Characters |
| Availibility | FK\_Code\_Details e.g. Yes/No etc. | Integer | Default | Foreign Key | Only Integers |
| Overlapping | FK\_Code\_Details e.g. Yes/No etc. | Integer | Default | Foreign Key | Only Integers |
| Survey\_Date | Date of Survey. | DateTime | Default | Not Null | Only Date and Time |
| Traced\_By | FK\_Employee | Integer | Default | Foreign Key | Only Integers |
| Prepared\_By | FK\_Employee | Integer | Default | Foreign Key | Only Integers |
| Approved\_By | FK\_Employee | Integer | Default | Foreign Key | Only Integers |
| Survey\_Remarks | Remarks(if any) for Survey. | Text | Default | Null | Any Combination of Characters |