# Data dictionary

Database Dictionary is prepared by a Systems Architect / Lead Developer. Database Dictionary is prepared once the project scope is finalized. Database dictionary helps developers as well as QC engineers.

# Database Dictionary Template

TblRegistration

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Attribute Name** | **Data Type** | **Field length** | **Key** | **description** |
| pkRegID | Integer | 5 | pk | Identifiers of individual registration |
| UserName | Varchar | 30 |  | User name |
| EmailId | Varchar | 30 |  | Email ID |
| RegistrationType | Char | 1 |  | **C**-Customer  **B**-Business development executive (BDE) |
| ActiveFlag | Char | 1 |  | **A**-Active  **I**-Inactive |
| CreatedDateTime | Date |  |  | Date and time when this record is created / updated last. |
| CreatedByIP | Varchar | 15 |  | IP address from where this record is created. |

TblForgotPassword

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Attribute Name** | **Data Type** | **Field length** | **Key** | **description** |
| pkFPID | Integer | 5 | Pk | Identifiers of forgot password request |
| EmailId | Varchar | 30 |  | User Email ID |
| CreatedDateTime | Date |  |  | Date and time when this record is created / updated last. |
| CreatedByIP | Varchar | 15 |  | IP address from where this record is created. |

TblLogin

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Attribute Name** | **Data Type** | **Field length** | **Key** | **description** |
| pkLoginID | Integer | 5 | Pk | Identifiers of (successful) login request |
| EmailId | Varchar | 30 |  | User Email ID |
| CreatedDateTime | Date |  |  | Date and time when this record is created / updated last. |
| CreatedByIP | Varchar | 15 |  | IP address from where this record is created. |

TblCustomer

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Attribute Name** | **Data Type** | **Field length** | **Key** | **description** |
| pkCustomerID | Integer | 5 | pk | Identifiers of Customer |
| CustomerName | Varchar | 30 |  | Customer name |
| CustomerEmailID | Varchar | 30 |  | Customer email ID |
| CustomerContactNo | Varchar | 10 |  | Customer contact number |
| CustomerAddress | Varchar | 100 |  | Customer address |
| CustomerCity | Varchar | 20 |  | Customer city |
| CustomerState | Varchar | 20 |  | Customer state |
| CustomerCountry | Varchar | 20 |  | Customer country |
| CreatedDateTime | Date |  |  | Date and time when this record is created / updated last. |
| CreatedByIP | Varchar | 15 |  | IP address from where this record is created. |

TblProject

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Attribute Name** | **Data Type** | **Field length** | **Key** | **description** |
| pkProjectID | Integer | 5 | pk | Identifiers of project |
| ProjectName | Varchar | 30 |  | Project name |
| ProjectDescription | Varchar | 30 |  | Project description |
| fkCustomerID | Integer | 5 | fk | Identifiers of Customer |
| ProjectDuration | Integer | 4 |  | Project duration (man days) |
| ProjectStartDate | Date |  |  | Planned Project Start Date |
| ProjectEndDate | Date |  |  | Planned Project End Date |
| ProjectCost | Integer | 7 |  | Project cost (USD) |
| ProjectRemarks | Varchar | 100 |  | Project Remarks |
| ProjectStatus | Varchar` | 20 |  | Project Status (Started, In Progress, Hold, Suspended, Completed) |
| fkRegID | Integer | 5 | Fk | Project created by BDE |
| CustomerReview | Varchar | 100 |  | Customer review |
| CreatedDateTime | Date |  |  | Date and time when this record is created / updated last. |
| CreatedByIP | Varchar | 15 |  | IP address from where this record is created. |

TblCustomerFeedback

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Attribute Name** | **Data Type** | **Field length** | **Key** | **description** |
| pkFeedbackID | Integer | 5 | pk | Identifiers of customer feedback |
| CustomerEmailID | Varchar | 30 |  | Customer email ID |
| Description | Varchar | 100 |  | Feedback description |
| Suggestion | Varchar | 100 |  | Feedback suggestion |
| CreatedDateTime | Date |  |  | Date and time when this record is created / updated last. |
| CreatedByIP | Varchar | 15 |  | IP address from where this record is created. |
|  |  |  |  |  |

TblCustomerQuery

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Attribute Name** | **Data Type** | **Field length** | **Key** | **Description** |
| pkQueryID | Integer | 5 | pk | Identifiers of customer query |
| CustomerEmailID | Varchar | 30 |  | Customer email ID (Query by whom) |
| Description | Varchar | 100 |  | Query description |
| Suggestion | Varchar | 100 |  | Query suggestion |
| Response | Varchar | 100 |  | Query response |
| fkRegID | Integer | 5 | pk | Response by BDE |
| ResponseDate | Date |  |  | Response date |
| CreatedDateTime | Date |  |  | Date and time when this record is created / updated last. |
| CreatedByIP | Varchar | 15 |  | IP address from where this record is created. |

# Database Conventions

Database conventions – Please view in outline mode

*Table Naming*

All tables must start with lowercase tbl and use a TitleCase style

*Thus allowing for programmers to distinguish between triggers, views, etc*

Use singular naming convention Examples of Table Names ***Correct***

## tblPerson, tblInformation Wrong

***tblPeople, tblCourses***

*Field Naming* Must use *TitleCase style*

*Singular naming convention*

*Be named exactly as the table they reference*

***For example, the primary key of the tblCourse would be pkCourseID, A foreign key to a table named tblStudent would be fkStudentID*** Declaring primary keys, and foreign keys

*Primary keys*

## When declaring a primary key the field will start with a lowercase “pk” Must end with ID, and be capitalized

*Foreign keys*

## When declaring a primary key the field will start with a lowercase “fk” Must end with ID, and be capitalized

*Examples of field names with primary keys, and foreign keys*

## Correct pkUserID pkStatusTypeID fkClientID fkProductTypeID Wrong PKInventoriesID FKClientID

*Examples of field names without primary keys, and foreign keys*

## Correct TitleDescriptin TaxPayerName DateCreated

*Declaring reference keys*

## Reference keys

Reference keys reference to a primary key, when creating a reference key do not build the name of the field using the table name.

## When declaring a reference key the field will start with a lower case “rk” No ID will be used at the end

***Example rkLastQuestion*** *Other Criteria*

All objects(anything in the database, tables, fields, views, except comments) in a database must be singular

All objects(anything in the database, tables, fields, views, except comments) in a database must have a description/comment in ENGLISH for what it is used for, stands for, keys to, etc

Correct Title Case for database on common words

*ZipCode HomeAddress*