**Parul University**

Parul Institute of Computer Application

Basic Software Engineering – 05101253

**Semester – 3**

**Case Study Example: Online Library System (OLS)**

**Practical 3.1:** To develop Data Dictionary

**Data Dictionary:** It is an integral part of a database. It holds information about the database and

the data that it stores. A data dictionary is a “virtual database” containing metadata (data about

data).

**Format for Data Dictionary:**

* **Column (Field Name):** It gives a name of field which describes entity.
* **Data Type & Field Size:** Data type & size of the field.
* **Key:** Key used like Primary Key, Foreign Key and etc.
* **Constrain:** Constrains which you want to put on data like not null, Auto Increment & etc.
* **Description:** Describe entity with some meaning.
* **Example:** Example of data.

**Fields of SSS (User)**

* User ID
* User Name
* Contact Number
* Email
* Gender
* Address
* Pin code
* State
* Country
* Date of Birth

**Data Dictionary: OLS**

**Table: users**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Column** | **Data Type** | **Key** | **Constrain** | **Description** | **Example** |
| user\_id | int | PK | AI | Primary Key of Table | 10021045 |
| first\_name | varchar(10) |  | Not Null | First Name of user | Harry |
| last\_name | varchar(10) |  | Not Null | Last Name of user | Potter |
| phone\_no | int |  | Not Null | Phone Number of User | 123456 |
| email | varchar(20) |  | Not Null | User Mail ID | harry@abc.com |
| gender | varchar(10) |  | Not Null | User Gender | male |
| address | varchar(50) |  | Not Null | User Address | Limda |
| city | varchar(10) |  | Not Null | City | Vadodara |
| pincode |  |  | Not Null | Pin Code | 50429 |
| state | varchar(10) |  | Not Null | State | Gujarat |
| country | varchar(10) |  | Not Null | Country | India |
| dob | date |  | Not Null | Date of Birth | 01-01-2001 |
| username | varchar(20) |  | Not Null | Username for Login | harrypot |
| password | varchar(20) |  | Not Null | Password for Login | \*\*\*\*\* |