**DBT Assignment**

**Create the following tables**

**Member – It contains information about the members**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| Member\_Id | Number(5) | Unique Member ID |
| Member\_Name | Varchar(30) | Name of the Library member |
| Member\_address | Varchar(50) | Address of the member |
| Acc\_Open\_Date | Date | Date of membership |
| Membership\_type | Varchar(20) | Type of the membership such as ‘Lifetime’, ’ Annual’, ‘Half Yearly’, ’ Quarterly’ |
| Penalty\_Amount | Number(7) | Penalty amount due |

**Books- It contains information about the books belongs to the library**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| Book\_No | Number(6) | Book identification number |
| Book\_Name | VarChar(30) | Name of the book |
| Author\_name | Varchar(30) | Author of the book |
| Cost | Number(7) | Cost of the book |
| Category | Char(10) | Category like Science , Fiction etc. |

create table member(Member\_Id numeric (5) primary key,Member\_Name varchar(30),Member\_Address varchar(50), acct\_open\_date date default now(), membership varchar(20) , penaulty\_amt numeric(7));

create table Books(Book\_No numeric(6),Book\_Name varchar(30),Author\_name varchar(30),Cost numeric(7),Category char(10));

create table Issue(Lib\_Issue\_Id numeric(10),Book\_No numeric(6), Member\_Id numeric(5),Issue\_Date date,Return\_Date date);

desc member;

desc Books;

desc Issue;

alter table member drop column Penalty\_amt;

insert into member value(1,”Richa Sharma”,”Pune”,”2005-12-10”,”Lifetime”);

insert into member value(2,”Garima Sen”,”Pune”,curdate(),”Annual”);

insert into member value(3,”Rahul Bing”,”Pune”,”2015-02-01”,”Lifetime”);

insert into member value(4,”Garima Sen”,”Pune”,2006-05-21,”Lifetime”);

insert into member value(5,”Iccha Sharma”,”Pune”,”2005-11-10”,”Lifetime”);

insert into member value(6,”Rima Sena”,”Pune”,curdate(),”Annual”);

insert into member value(7,“Ishant khemu”,”Pune”,”curdate()”,”Annual”);

insert into Books value(101,”Let us C”,”Denis Ritchie”,450,”System”);

insert into Books value(102,”Oracle – Complete Ref”,”Loni”,550,”Database”);

insert into Books value(103,”Mastering SQL”,”Loni”,250,”Database”);

insert into Books value(104,”PL SQL-Ref”,”Scott Urman”,750,”Database”);

select \* from member;

select \* from Books;

update Books set Cost=300 where Category=”Database”;

drop table Issue;

create table Issue(Lib\_Issue\_Id numeric(10), Book\_No numeric(6),Members\_Id numeric(5),Issue\_Date date, Return\_Date date);

inser into Issue value(7001,101,1,””,””);

inser into Issue value(7002,102,2,””,””);

inser into Issue value(7003,104,1,””,””);

inser into Issue value(7004,101,1,””,””);

inser into Issue value(7005,104,2,””,””);

inser into Issue value(7006,101,3,””,””);

//default CURRENT\_DATE()/NOW()/CURDATE()/now();

**Issue – It contains the information about issue of the books**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| Lib\_Issue\_Id | Number(10) | Library Book Issue No |
| Book\_No | Number(6) | Number of the book issued |
| Member\_Id | Number(5) | Member that was issued the book |
| Issue\_Date | Date | Date of Issue |
| Return\_date | Date | Return date |

**Task / Problems**:

1. Create the table Member, Books and Issue without any constraints as mentioned in the schema description above.
2. View the structure of the tables.
3. Delete/Drop the column Penalty\_Amount from Member
4. Insert following data in table Member:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Member ID** | **Member Name** | **Member Address** | **Acc\_Open\_Date** | **Membership\_type** |
| 1 | Richa Sharma | Pune | 10-Dec-05 | Lifetime |
| 2 | Garima Sen | Pune | Current date | Annual |

1. Insert at least 5 records with suitable data and save it.
2. Insert data in Book table as follows:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Book\_No** | **Book Name** | **Author** | **Cost** | **Category** |
| 101 | Let us C | Denis Ritchie | 450 | System |
| 102 | Oracle – Complete Ref | Loni | 550 | Database |
| 103 | Mastering SQL | Loni | 250 | Database |
| 104 | PL SQL-Ref | ScottUrman | 750 | Database |

1. View the data in the tables using simple SQL query.
2. Modify the price of book with id 103 to Rs 300 and category to RDBMS
3. Drop table Issue.
4. Again Create table Issue and insert following data into Issue table. Note leave the column Return\_Date blank

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Lib\_Issue\_Id** | **Book No** | **Member ID** | **Issue Date** | **Return Date** |
| 7001 | 101 | 1 | 10-Dec-06 |  |
| 7002 | 102 | 2 | 25-Dec-06 |  |
| 7003 | 104 | 1 | 15-Jan-06 |  |
| 7004 | 101 | 1 | 04-Jul-06 |  |
| 7005 | 104 | 2 | 15-Nov-06 |  |
| 7006 | 101 | 3 | 18-Feb-06 |  |