**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. |

**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 |  |

Ans Query 🡪

create table Member(Member\_ID int,Member\_Name varchar(30),Member\_adress varchar(50),Acc\_Open\_Date date,Membership\_Type varchar(20),Penalty\_Amount int(7));

create table Books(Book\_No int(6),Book\_Name varchar(30),Author\_Name varchar(30),cost int(7),Category char(10));

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

select \*from Member;

select \*from Books;

select \*from Issue;

alter table Member drop column Penalty\_Amount;

desc Member;

insert into Member values(1,"Richa Sharma","pune","2005-12-10","LifeTime");

insert into Member values(2,"Garima Sen","Pune","2020-12-04","Annual");

insert into Member values(3,"Naman Patil","BSL","2020-12-5","semi annual");

insert into Member values(4,"Shivam Rathore","Mumbai","2020-12-08","quarterly");

insert into Member values(5,"Tejas Talele","Ambernath","2020-12-09","weekly");

desc Member;

select \* from Member;

insert into books values(101,"Let us C","Dennis Ritchie",450,"System");

insert into books values(102,"Oracle- Complete Ref","Loni",550,"Database");

insert into books values(103,"Mastering SQL","Loni",250,"Database");

insert into books values(104,"PL SQL-Ref","ScottUrman",750,"Database");

desc Books;

select \* from Books;

update Books set cost=300 where Book\_No=103;

drop table Issue;

desc Issue;

insert into Issue(LIb\_Issue\_Id,Book\_No,Member\_Id,Issue\_Date)values(7001,101,1,"2006-12-10");

insert into Issue(LIb\_Issue\_Id,Book\_No,Member\_Id,Issue\_Date)values(7002,101,2,"2006-12-25");

insert into Issue(LIb\_Issue\_Id,Book\_No,Member\_Id,Issue\_Date)values(7003,101,1,"2006-12-15");

insert into Issue(LIb\_Issue\_Id,Book\_No,Member\_Id,Issue\_Date)values(7004,101,1,"2006-12-04");

insert into Issue(LIb\_Issue\_Id,Book\_No,Member\_Id,Issue\_Date)values(7005,101,2,"2006-12-15");

insert into Issue(LIb\_Issue\_Id,Book\_No,Member\_Id,Issue\_Date)values(7006,101,3,"2006-12-18");

select \* from Issue;