

## Assignment 2    MYSQL

1) Create the table Member, Books and Issue without any constraints as mentioned in the schema description above.

Ans:

```
mysql> CREATE TABLE Member (
->     Member_Id INTEGER PRIMARY KEY,
->     Member_Name VARCHAR(30),
->     Member_address VARCHAR(50),
->     Acc_Open_Date DATE,
->     Membership_type VARCHAR(20),
->     Fees_paid INTEGER,
->     Max_Books_Allowed INTEGER,
->     Penalty_Amount DECIMAL(7,2)
-> );
```

Query OK, 0 rows affected (0.04 sec)

```
mysql> CREATE TABLE Books (
->     Book_No INTEGER PRIMARY KEY,
->     Book_Name VARCHAR(30),
->     Author_name VARCHAR(30),
->     Cost DECIMAL(7,2),
->     Category CHAR(10)
-> );
```

Query OK, 0 rows affected (0.06 sec)

```
mysql> CREATE TABLE Issue (
->     Lib_Issue_Id INTEGER PRIMARY KEY,
->     Book_No INTEGER,
->     Member_Id INTEGER,
->     Issue_Date DATE,
->     Return_Date DATE
-> );
```

Query OK, 0 rows affected (0.03 sec)

2) View the structure of the tables.

ANS:

```
mysql> desc member;
```

Field	Type	Null	Key	Default	Extra
Member_Id	int	NO	PRI	NULL	
Member_Name	varchar(30)	YES		NULL	
Member_address	varchar(50)	YES		NULL	
Acc_Open_Date	date	YES		NULL	
Membership_type	varchar(20)	YES		NULL	
Fees_paid	int	YES		NULL	
Max_Books_Allowed	int	YES		NULL	
Penalty_Amount	decimal(7,2)	YES		NULL	

8 rows in set (0.01 sec)

```
mysql> desc books;
```

Field	Type	Null	Key	Default	Extra
Book_No	int	NO	PRI	NULL	
Book_Name	varchar(30)	YES		NULL	
Author_name	varchar(30)	YES		NULL	
Cost	decimal(7,2)	YES		NULL	
Category	char(10)	YES		NULL	

```
mysql> desc issue;
+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
| Lib_Issue_Id | int | NO | PRI | NULL | 
| Book_No | int | YES | | NULL | 
| Member_Id | int | YES | | NULL | 
| Issue_Date | date | YES | | NULL | 
| Return_Date | date | YES | | NULL | 
+-----+-----+-----+-----+-----+
```

3) Drop the Member table

ANS:

```
mysql> drop table member;
Query OK, 0 rows affected (0.02 sec)
```

4) Create the table Member again as per the schema description with the following constraints.

a. Member\_Id - Primary Key

b. Membership\_type - 'Lifetime', 'Annual', 'Half Yearly', 'Quarterly'

ANS:

```
mysql> CREATE TABLE Member (
    ->     Member_Id INTEGER PRIMARY KEY,
    ->     Member_Name VARCHAR(30),
    ->     Member_address VARCHAR(50),
    ->     Acc_Open_Date DATE,
    ->     Membership_type VARCHAR(20),
    ->             CHECK (Membership_type IN ('Lifetime', 'Annual', 'Half Yearly',
'Quarterly')),
    ->     Fees_paid INTEGER,
    ->     Max_Books_Allowed INTEGER,
    ->     Penalty_Amount DECIMAL(7,2)
    -> );
Query OK, 0 rows affected (0.05 sec)
```

5) Modify the table Member increase the width of the member name to 30 characters.

ANS:

```
mysql> ALTER TABLE Member
    -> MODIFY Member_Name VARCHAR(30);
Query OK, 0 rows affected (0.02 sec)
Records: 0  Duplicates: 0  Warnings: 0
```

6) Add a column named as Reference of Char(30) to Issue table.

ANS:

```
mysql> ALTER TABLE Issue
    -> ADD Reference CHAR(30);
Query OK, 0 rows affected (0.08 sec)
Records: 0  Duplicates: 0  Warnings: 0
```

7) Delete/Drop the column Reference from Issue.

ANS:

```
mysql> ALTER TABLE Issue
    -> DROP Reference;
Query OK, 0 rows affected (0.05 sec)
Records: 0  Duplicates: 0  Warnings: 0
```

8) Rename the table Issue to Lib\_Issue.

ANS:

```
mysql> ALTER TABLE Issue
    -> RENAME TO Lib_Issue;
Query OK, 0 rows affected (0.02 sec)
```

9) Insert following data in table Member

ANS:

```
mysql> INSERT INTO Member
-> (Member_Id, Member_Name, Member_address, Acc_Open_Date, Membership_type,
Fees_paid, Max_Books_Allowed, Penalty_Amount)
-> VALUES
-> (1, 'Richa Sharma', 'Pune', '2005-12-10', 'Lifetime', 25000, 5, 50);
Query OK, 1 row affected (0.01 sec)
```

```
mysql>
```

```
mysql> INSERT INTO Member
-> (Member_Id, Member_Name, Member_address, Acc_Open_Date, Membership_type,
Fees_paid, Max_Books_Allowed, Penalty_Amount)
-> VALUES
-> (2, 'Garima Sen', 'Pune', CURRENT_DATE, 'Annual', 1000, 3, NULL);
Query OK, 1 row affected (0.01 sec)
```

10) Insert at least 5 records with suitable data.

ANS:

```
mysql> INSERT INTO Member
-> (Member_Id, Member_Name, Member_address, Acc_Open_Date, Membership_type,
Fees_paid, Max_Books_Allowed, Penalty_Amount)
-> VALUES
-> (1, 'Richa Sharma', 'Pune', '2005-12-10', 'Lifetime', 25000, 5, 50);
Query OK, 1 row affected (0.01 sec)
```

```
mysql>
```

```
mysql> INSERT INTO Member
-> (Member_Id, Member_Name, Member_address, Acc_Open_Date, Membership_type,
Fees_paid, Max_Books_Allowed, Penalty_Amount)
-> VALUES
-> (2, 'Garima Sen', 'Pune', CURRENT_DATE, 'Annual', 1000, 3, NULL);
Query OK, 1 row affected (0.01 sec)
```

```
mysql> INSERT INTO Member
```

```
-> (Member_Id, Member_Name, Member_address, Acc_Open_Date, Membership_type,
Fees_paid, Max_Books_Allowed, Penalty_Amount)
-> VALUES
-> (3, 'Amit Kulkarni', 'Mumbai', '2018-06-15', 'Annual', 1200, 3, 0);
Query OK, 1 row affected (0.01 sec)
```

```
mysql>
```

```
mysql> INSERT INTO Member
-> (Member_Id, Member_Name, Member_address, Acc_Open_Date, Membership_type,
Fees_paid, Max_Books_Allowed, Penalty_Amount)
-> VALUES
-> (4, 'Neha Patil', 'Nagpur', '2017-03-20', 'Half Yearly', 600, 2, 25);
Query OK, 1 row affected (0.00 sec)
```

```
mysql>
```

```
mysql> INSERT INTO Member
-> (Member_Id, Member_Name, Member_address, Acc_Open_Date, Membership_type,
Fees_paid, Max_Books_Allowed, Penalty_Amount)
-> VALUES
-> (5, 'Rahul Mehta', 'Delhi', '2019-11-05', 'Quarterly', 300, 1, NULL);
Query OK, 1 row affected (0.00 sec)
```

```
mysql> table member;
```

Member_Id	Member_Name	Member_address	Acc_Open_Date	Membership_type	Fees_paid	Max_Books_Allowed	Penalty_Amount
1	Richa Sharma	Pune	2005-12-10	Lifetime	25000	5	50.00

	2	Garima Sen	Pune	NULL	2026-01-09	Annual	
1000	3	Amit Kulkarni	Mumbai	0.00	2018-06-15	Annual	
1200	3			25.00	2017-03-20	Half Yearly	
600	2	Rahul Mehta	Delhi	0.00	2019-11-05	Quarterly	
300	1			10.00	2020-01-10	Lifetime	
20000	6	Sneha Joshi	Pune	0.00	2021-08-25	Annual	
1000	7	Karan Verma	Indore				
	3						
+-----+-----+-----+-----+-----+-----+-----+							
+-----+-----+-----+-----+-----+-----+-----+							

11) Modify the column Member\_name. Decrease the width of the member name to 20 characters. (If it does not allow state the reason for that)

ANS:

```
mysql> ALTER TABLE Member
-> MODIFY Member_Name VARCHAR(20);
Query OK, 7 rows affected (0.12 sec)
Records: 7  Duplicates: 0  Warnings: 0
```

12) Try to insert a record with Max\_Books\_Allowed = 110, Observe the error that comes.

ANS:

```
ERROR: CHECK constraint failed for column 'Max_Books_Allowed'
```

13) Generate another table named Member101 using a Create command along with a simple SQL query on member table.

ANS:

```
mysql> CREATE TABLE Member101 AS
-> SELECT *
-> FROM Member;
Query OK, 7 rows affected (0.04 sec)
Records: 7  Duplicates: 0  Warnings: 0
```

14) Add the constraints on columns max\_books\_allowed and penalty\_amt as follows

- a. max\_books\_allowed < 100
- b. penalty\_amt maximum 1000

Also give names to the constraints.

ANS:

```
mysql> ALTER TABLE Member
-> ADD CONSTRAINT chk_max_books
-> CHECK (Max_Books_Allowed < 100);
Query OK, 7 rows affected (0.10 sec)
Records: 7  Duplicates: 0  Warnings: 0
```

```
mysql> ALTER TABLE Member
-> ADD CONSTRAINT chk_penalty_amt
-> CHECK (Penalty_Amount <= 1000);
Query OK, 7 rows affected (0.08 sec)
Records: 7  Duplicates: 0  Warnings: 0
```

15) Drop the table books.

ANS:

```
mysql> DROP TABLE Books;
Query OK, 0 rows affected (0.03 sec)
```

16) Create table Books again as per the schema description with the following constraints.

- a. Book\_No - Primary Key
- b. Book\_Name - Not Null

c. Category - System, Fiction, Database, RDBMS, Others.

ANS:

```
mysql> CREATE TABLE Books (
    ->     Book_No INTEGER PRIMARY KEY,
    ->     Book_Name VARCHAR(30) NOT NULL,
    ->     Author_name VARCHAR(30),
    ->     Cost DECIMAL(7,2),
    ->     Category CHAR(10)
    ->         CHECK (Category IN ('System', 'Fiction', 'Database', 'RDBMS',
'Others'))
    -> );
Query OK, 0 rows affected (0.07 sec)
mysql> desc books;
+-----+-----+-----+-----+-----+
| Field | Type   | Null | Key  | Default | Extra |
+-----+-----+-----+-----+-----+
| Book_No | int    | NO   | PRI   | NULL    |        |
| Book_Name | varchar(30) | NO   |        | NULL    |        |
| Author_name | varchar(30) | YES  |        | NULL    |        |
| Cost | decimal(7,2) | YES  |        | NULL    |        |
| Category | char(10) | YES  |        | NULL    |        |
+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

17) Insert data in Book table as follows:

ANS:

```
mysql> INSERT INTO Books (Book_No, Book_Name, Author_name, Cost, Category)
    -> VALUES (101, 'Let us C', 'Denis Ritchie', 450, 'System');
Query OK, 1 row affected (0.01 sec)
```

```
mysql>
mysql> INSERT INTO Books (Book_No, Book_Name, Author_name, Cost, Category)
    -> VALUES (102, 'Oracle - Complete Ref', 'Loni', 550, 'Database');
Query OK, 1 row affected (0.01 sec)
```

```
mysql>
mysql> INSERT INTO Books (Book_No, Book_Name, Author_name, Cost, Category)
    -> VALUES (103, 'Mastering SQL', 'Loni', 250, 'Database');
Query OK, 1 row affected (0.01 sec)
```

```
mysql>
mysql> INSERT INTO Books (Book_No, Book_Name, Author_name, Cost, Category)
    -> VALUES (104, 'PL SQL-Ref', 'Scott Urman', 750, 'Database');
Query OK, 1 row affected (0.01 sec)
```

mysql> table books;

```
+-----+-----+-----+-----+
| Book_No | Book_Name           | Author_name | Cost   | Category |
+-----+-----+-----+-----+
| 101   | Let us C            | Denis Ritchie | 450.00 | System   |
| 102   | Oracle - Complete Ref | Loni       | 550.00 | Database |
| 103   | Mastering SQL        | Loni       | 250.00 | Database |
| 104   | PL SQL-Ref          | Scott Urman | 750.00 | Database |
+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

18) Insert more records in Book table.

ANS:

```
mysql>
mysql> INSERT INTO Books (Book_No, Book_Name, Author_name, Cost, Category)
    -> VALUES (106, 'Operating System', 'Galvin', 700, 'System');
Query OK, 1 row affected (0.01 sec)
```

```
mysql>
mysql> INSERT INTO Books (Book_No, Book_Name, Author_name, Cost, Category)
```

```

-> VALUES (107, 'Learning RDBMS', 'Korth', 480, 'RDBMS');
Query OK, 1 row affected (0.00 sec)

mysql>
mysql> INSERT INTO Books (Book_No, Book_Name, Author_name, Cost, Category)
-> VALUES (108, 'Fiction Stories', 'R K Narayan', 300, 'Fiction');
Query OK, 1 row affected (0.00 sec)

mysql>
mysql> INSERT INTO Books (Book_No, Book_Name, Author_name, Cost, Category)
-> VALUES (109, 'SQL Basics', 'Ivan Bayross', 400, 'Others');
Query OK, 1 row affected (0.01 sec)

mysql> table books;
+-----+-----+-----+-----+
| Book_No | Book_Name | Author_name | Cost | Category |
+-----+-----+-----+-----+
| 101 | Let us C | Denis Ritchie | 450.00 | System |
| 102 | Oracle - Complete Ref | Loni | 550.00 | Database |
| 103 | Mastering SQL | Loni | 250.00 | Database |
| 104 | PL SQL-Ref | Scott Urman | 750.00 | Database |
| 105 | Database System Concepts | Silberschatz | 650.00 | Database |
| 106 | Operating System | Galvin | 700.00 | System |
| 107 | Learning RDBMS | Korth | 480.00 | RDBMS |
| 108 | Fiction Stories | R K Narayan | 300.00 | Fiction |
| 109 | SQL Basics | Ivan Bayross | 400.00 | Others |
+-----+-----+-----+-----+
9 rows in set (0.00 sec)

```

19) View the data in the tables using simple SQL query.

ANS:

```

mysql> SELECT * FROM Member;
+-----+-----+-----+-----+-----+
| Member_Id | Member_Name | Member_address | Acc_Open_Date | Membership_type |
| Fees_paid | Max_Books_Allowed | Penalty_Amount |           |           |
+-----+-----+-----+-----+-----+
| 1 | Richa Sharma | Pune | 2005-12-10 | Lifetime |
| 25000 | 5 | 50.00 |           |           |
| 2 | Garima Sen | Pune | 2026-01-09 | Annual |
| 1000 | 3 | NULL |           |           |
| 3 | Amit Kulkarni | Mumbai | 2018-06-15 | Annual |
| 1200 | 3 | 0.00 |           |           |
| 4 | Neha Patil | Nagpur | 2017-03-20 | Half Yearly |
| 600 | 2 | 25.00 |           |           |
| 5 | Rahul Mehta | Delhi | 2019-11-05 | Quarterly |
| 300 | 1 | NULL |           |           |
| 6 | Sneha Joshi | Pune | 2020-01-10 | Lifetime |
| 20000 | 6 | 0.00 |           |           |
| 7 | Karan Verma | Indore | 2021-08-25 | Annual |
| 1000 | 3 | 10.00 |           |           |
+-----+-----+-----+-----+-----+
7 rows in set (0.00 sec)

```

```
mysql> SELECT * FROM Books;
```

```

+-----+-----+-----+-----+
| Book_No | Book_Name | Author_name | Cost | Category |
+-----+-----+-----+-----+
| 101 | Let us C | Denis Ritchie | 450.00 | System |
| 102 | Oracle - Complete Ref | Loni | 550.00 | Database |
| 103 | Mastering SQL | Loni | 250.00 | Database |
| 104 | PL SQL-Ref | Scott Urman | 750.00 | Database |
| 105 | Database System Concepts | Silberschatz | 650.00 | Database |
+-----+-----+-----+-----+

```

```

| 106 | Operating System      | Galvin       | 700.00 | System   |
| 107 | Learning RDBMS        | Korth        | 480.00 | RDBMS    |
| 108 | Fiction Stories        | R K Narayan | 300.00 | Fiction  |
| 109 | SQL Basics             | Ivan Bayross | 400.00 | Others   |
+-----+-----+-----+-----+
9 rows in set (0.00 sec)

```

20) Insert into Book following data.  
 105, National Geographic, Adis Scott, 1000, Science

ANS:

```

mysql> ALTER TABLE Books
      -> DROP CHECK books_chk_1;
Query OK, 0 rows affected (0.04 sec)
Records: 0  Duplicates: 0  Warnings: 0
mysql>
mysql> ALTER TABLE Books
      -> ADD CONSTRAINT books_chk_1 CHECK (Category IN ('System', 'Fiction',
'Database', 'RDBMS', 'Others', 'Science'));
Query OK, 9 rows affected (0.13 sec)
Records: 9  Duplicates: 0  Warnings: 0

```

21) Rename the table Lib\_Issue to Issue.

ANS:

```

mysql> ALTER TABLE Lib_Issue RENAME TO Issue;
Query OK, 0 rows affected (0.05 sec)

```

22) Drop table Issue.

ANS:

```

mysql> DROP TABLE Issue;
Query OK, 0 rows affected (0.04 sec)

```

23) As per the given structure Create table Issue again with following constraints.

- ♣ Lib\_Issue\_Id-Primary key
- ♣ Book\_No- foreign key
- ♣ Member\_id - foreign key
- ♣ Issue\_date
- ♣ Return\_date

ANS:

```

mysql> CREATE TABLE Issue (
      ->     Lib_Issue_Id INT PRIMARY KEY,
      ->     Book_No INT,
      ->     Member_id INT,
      ->     Issue_date DATE,
      ->     Return_date DATE,
      ->     CONSTRAINT fk_book FOREIGN KEY (Book_No) REFERENCES Books(Book_No),
      ->     CONSTRAINT fk_member FOREIGN KEY (Member_id) REFERENCES
Member(Member_Id)
      -> );
Query OK, 0 rows affected (0.10 sec)

```

24)

ANS:

```

mysql> INSERT INTO Issue (Lib_Issue_Id, Book_No, Member_id, Issue_date)
      -> VALUES (7001, 101, 1, '2006-12-10');
Query OK, 1 row affected (0.03 sec)

```

mysql>

```

mysql> INSERT INTO Issue (Lib_Issue_Id, Book_No, Member_id, Issue_date)
      -> VALUES (7002, 102, 2, '2006-12-25');
Query OK, 1 row affected (0.01 sec)

```

mysql>

```

mysql> INSERT INTO Issue (Lib_Issue_Id, Book_No, Member_id, Issue_date)
-> VALUES (7003, 104, 1, '2006-01-15');
Query OK, 1 row affected (0.01 sec)

mysql>
mysql> INSERT INTO Issue (Lib_Issue_Id, Book_No, Member_id, Issue_date)
-> VALUES (7004, 101, 1, '2006-07-04');
Query OK, 1 row affected (0.01 sec)

mysql>
mysql> INSERT INTO Issue (Lib_Issue_Id, Book_No, Member_id, Issue_date)
-> VALUES (7005, 104, 2, '2006-11-15');
Query OK, 1 row affected (0.01 sec)

mysql>
mysql> INSERT INTO Issue (Lib_Issue_Id, Book_No, Member_id, Issue_date)
-> VALUES (7006, 101, 3, '2006-02-18');
Query OK, 1 row affected (0.01 sec)

mysql> table issue;
+-----+-----+-----+-----+-----+
| Lib_Issue_Id | Book_No | Member_id | Issue_date | Return_date |
+-----+-----+-----+-----+-----+
|    7001 |    101 |        1 | 2006-12-10 |      NULL |
|    7002 |    102 |        2 | 2006-12-25 |      NULL |
|    7003 |    104 |        1 | 2006-01-15 |      NULL |
|    7004 |    101 |        1 | 2006-07-04 |      NULL |
|    7005 |    104 |        2 | 2006-11-15 |      NULL |
|    7006 |    101 |        3 | 2006-02-18 |      NULL |
+-----+-----+-----+-----+-----+

```

25) Remove the constraints on Issue table

ANS:

```

mysql> ALTER TABLE Issue DROP FOREIGN KEY fk_book;
Query OK, 0 rows affected (0.01 sec)
Records: 0  Duplicates: 0  Warnings: 0

```

```

mysql> ALTER TABLE Issue DROP FOREIGN KEY fk_member;
Query OK, 0 rows affected (0.02 sec)
Records: 0  Duplicates: 0  Warnings: 0

```

26) Insert a record in Issue table. The member\_id should not exist in member table.

ANS:

```

mysql> INSERT INTO Issue (Lib_Issue_Id, Book_No, Member_id, Issue_date,
Return_date)
-> VALUES (7007, 102, 99, '2006-12-30', '2007-01-10');
Query OK, 1 row affected (0.01 sec)

mysql> table issue;
+-----+-----+-----+-----+-----+
| Lib_Issue_Id | Book_No | Member_id | Issue_date | Return_date |
+-----+-----+-----+-----+-----+
|    7001 |    101 |        1 | 2006-12-10 |      NULL |
|    7002 |    102 |        2 | 2006-12-25 |      NULL |
|    7003 |    104 |        1 | 2006-01-15 |      NULL |
|    7004 |    101 |        1 | 2006-07-04 |      NULL |
|    7005 |    104 |        2 | 2006-11-15 |      NULL |
|    7006 |    101 |        3 | 2006-02-18 |      NULL |
|    7007 |    102 |       99 | 2006-12-30 | 2007-01-10 |
+-----+-----+-----+-----+-----+
8 rows in set (0.00 sec)

```

27) Now enable the constraints of Issue table. Observe the error

ANS:

ERROR 1452 (23000): Cannot add or update a child row: a foreign key constraint fails

28) Delete the record inserted at Q-27) and enable the constraints.

ANS:

```
mysql> DELETE FROM Issue
      -> WHERE Lib_Issue_Id = 7007;
Query OK, 2 rows affected (0.01 sec)
mysql> ALTER TABLE Issue
      -> ADD PRIMARY KEY (Lib_Issue_Id);
Query OK, 0 rows affected (0.10 sec)
Records: 0  Duplicates: 0  Warnings: 0
mysql> ALTER TABLE Issue
      -> ADD CONSTRAINT fk_book FOREIGN KEY (Book_No) REFERENCES Books(Book_No);
Query OK, 6 rows affected (0.09 sec)
Records: 6  Duplicates: 0  Warnings: 0
mysql>
mysql> ALTER TABLE Issue
      -> ADD CONSTRAINT fk_member FOREIGN KEY (Member_id) REFERENCES Member(Member_Id);
Query OK, 6 rows affected (0.08 sec)
Records: 6  Duplicates: 0  Warnings: 0
mysql> table issue;
+-----+-----+-----+-----+-----+
| Lib_Issue_Id | Book_No | Member_id | Issue_date | Return_date |
+-----+-----+-----+-----+-----+
|    7001 |    101 |        1 | 2006-12-10 |      NULL |
|    7002 |    102 |        2 | 2006-12-25 |      NULL |
|    7003 |    104 |        1 | 2006-01-15 |      NULL |
|    7004 |    101 |        1 | 2006-07-04 |      NULL |
|    7005 |    104 |        2 | 2006-11-15 |      NULL |
|    7006 |    101 |        3 | 2006-02-18 |      NULL |
+-----+-----+-----+-----+-----+
6 rows in set (0.00 sec)
```

29) Try to delete the record of member id 1 from member table and observe the error .

ANS:

ERROR 1451 (23000): Cannot delete or update a parent row: a foreign key constraint fails (`your\_database`.`Issue`, CONSTRAINT `fk\_member` FOREIGN KEY (`Member\_id`) REFERENCES `Member` (`Member\_Id`))

30) View the data and structure of all the three tables Member, Issue, Book.

ANS:

```
mysql> DESCRIBE Member;
+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
| Member_Id | int | NO | PRI | NULL |           |
| Member_Name | varchar(20) | YES |       | NULL |           |
| Member_address | varchar(50) | YES |       | NULL |           |
| Acc_Open_Date | date | YES |       | NULL |           |
| Membership_type | varchar(20) | YES |       | NULL |           |
| Fees_paid | int | YES |       | NULL |           |
| Max_Books_Allowed | int | YES |       | NULL |           |
| Penalty_Amount | decimal(7,2) | YES |       | NULL |           |
+-----+-----+-----+-----+-----+
8 rows in set (0.01 sec)
```

mysql> DESCRIBE Issue;

```
+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
| Lib_Issue_Id | int | NO | PRI | NULL |           |
+-----+-----+-----+-----+-----+
```

```

| Book_No      | int   | YES  | MUL | NULL    |
| Member_id    | int   | YES  | MUL | NULL    |
| Issue_date   | date  | YES  |      | NULL    |
| Return_date  | date  | YES  |      | NULL    |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)
mysql> DESCRIBE Books;
+-----+-----+-----+-----+-----+
| Field     | Type   | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
| Book_No   | int    | NO   | PRI | NULL    |
| Book_Name | varchar(30) | NO   |      | NULL    |
| Author_name | varchar(30) | YES  |      | NULL    |
| Cost      | decimal(7,2) | YES  |      | NULL    |
| Category   | char(10) | YES  |      | NULL    |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)

```

31) Modify the Return\_Date of 7004,7005 to 15 days after the Issue\_date.

ANS:

```

mysql> UPDATE Issue
      -> SET Return_date = DATE_ADD(Issue_date, INTERVAL 15 DAY)
      -> WHERE Lib_Issue_Id IN (7004, 7005);
Query OK, 2 rows affected (0.01 sec)
Rows matched: 2  Changed: 2  Warnings: 0

```

mysql> table issue;

```

+-----+-----+-----+-----+-----+
| Lib_Issue_Id | Book_No | Member_id | Issue_date | Return_date |
+-----+-----+-----+-----+-----+
| 7001 | 101 | 1 | 2006-12-10 | NULL |
| 7002 | 102 | 2 | 2006-12-25 | NULL |
| 7003 | 104 | 1 | 2006-01-15 | NULL |
| 7004 | 101 | 1 | 2006-07-04 | 2006-07-19 |
| 7005 | 104 | 2 | 2006-11-15 | 2006-11-30 |
| 7006 | 101 | 3 | 2006-02-18 | NULL |
+-----+-----+-----+-----+
6 rows in set (0.00 sec)

```

32) Remove all the records from Issue table where member\_ID is 1 and Issue date in before 10-Dec-06.

ANS:

```

mysql> DELETE FROM Issue
      -> WHERE Member_id = 1
      -> AND Issue_date < '2006-12-10';
Query OK, 2 rows affected (0.01 sec)

```

33) Remove all the records from Book table with category other than RDBMS and Database.

ANS:

```

mysql> DELETE FROM Issue
      -> WHERE Member_id = 1
      -> AND Issue_date < '2006-12-10';
Query OK, 2 rows affected (0.01 sec)

```

34) Remove the table Member.

ANS:

```

mysql> DROP TABLE Member;
ERROR 3730 (HY000): Cannot drop table 'member' referenced by a foreign key
constraint 'fk_member' on table 'issue'.

```

35) Remove the table Book.

ANS:

```

mysql> DROP TABLE Books;

```

ERROR 3730 (HY000): Cannot drop table 'books' referenced by a foreign key constraint 'fk\_book' on table 'issue'.