1) Create the table Member, Books and Issue without any constraints as mentioned in the schema description above. Database changed mysql> create table member -> (member\_id int, -> member\_name varchar(30), -> member\_address varchar(50), -> acc\_open\_date date, -> membership\_type varchar(20), -> fees\_paid int, -> max\_books\_allowed int, -> penalty\_amount decimal(7,2)); Query OK, 0 rows affected (0.04 sec) mysql> create table library -> (book\_no int, -> book\_name varchar(30), -> author\_name varchar(30), -> cost decimal(7,2), -> category char(10)); mysql> create table books -> (lib\_issue\_id int, -> book\_no int, -> member\_id int, -> issue\_date date, -> return\_date date);

2) View the structure of the tables.

## mysql> desc member;

Field	Type	Null	Key	Default	Extra
member_id   member_name   member_address   acc_open_date   membership_type   fees_paid   max_books_allowed   penalty_amount	int   varchar(30)   varchar(50)   date   varchar(20)   int   int   decimal(7,2)	YES		NULL NULL NULL NULL NULL NULL NULL NULL	

8 rows in set (0.00 sec)

## mysql> desc library;

Field	Type	Null     	+ Key   +	Default	Extra
book_no   book_name   author_name   cost   category	int   varchar(30)   varchar(30)   decimal(7,2)   char(10)	YES	          +	NULL NULL NULL NULL NULL	

5 rows in set (0.00 sec)

## mysql> desc books;

+	+	+	++		++
Field	Type	Null	Key	Default	Extra
+		•			
lib_issue_id	int	YES	1 1	NULL	1 1
book_no	int	YES	i i	NULL	i i
member_id	int	YES	İ	NULL	i i
issue_date	date	YES		NULL	1 1

```
+----+----+-----
3) Drop the Member table
mysql> drop table member;
Query OK, 0 rows affected (0.03 sec)
mysql> desc table;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that
corresponds to your MySQL server version for the right syntax to use near '' at
line 1
mysql> show tables;
+----+
| Tables_in_fbs |
+----+
account
books
| countries
custumer
| department
| employee
| fbs_student
| job_histry
| jobs
| library
| project
| student
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'
mysql> create table member
  -> (member_id int 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")),
   -> max_books_allowed int,
   -> penalty_amount decimal(7,2));
Query OK, 0 rows affected (0.04 sec)
mysql> desc member;
+----+
| Field | Type | Null | Key | Default | Extra |
+----+
+----+---+----+----+
7 rows in set (0.00 sec)
mysgl> show create table member;
+----
```

```
| Table | Create Table
| member | CREATE TABLE `member` (
  `member_id` int NOT NULL,
  `member_name` varchar(30) DEFAULT NULL,
  `member_address` varchar(50) DEFAULT NULL,
  `acc_open_date` date DEFAULT NULL,
  `membership_type` varchar(20) DEFAULT NULL,
  `max_books_allowed` int DEFAULT NULL,
  `penalty_amount` decimal(7,2) DEFAULT NULL,
 PRIMARY KEY (`member_id`),
CONSTRAINT `member_chk_1` CHECK ((`membership_type` in
(_utf8mb4'lifetime',_utf8mb4'Annual',_utf8mb4'half
yearly',_utf8mb4'Quarterly')))
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci |
1 row in set (0.01 sec)
5) Modify the table Member increase the width of the member name to 30
characters.
mysql> alter table member modify column member_name varchar(30);
Query OK, 0 rows affected (0.03 sec)
Records: 0 Duplicates: 0 Warnings: 0
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
                 | date
                               | YES |
                                          | NULL
| acc_open_date
                  | varchar(20)
                               | YES
| membership_type
                                           NULL
| max_books_allowed | int
                               | YES
                                           NULL
| penalty_amount | decimal(7,2) | YES
```

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

mysql> alter table books add column reference char(30);
Query OK, 0 rows affected (0.03 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> desc books;

+	<del></del>		+	++
Field	Туре	Null   Key	Default	Extra
lib_issue_id   book_no   member_id   issue_date   return_date   reference	int   int   int   date   date   char(30)	YES     YES     YES     YES     YES	NULL NULL NULL NULL NULL NULL	

7) Delete/Drop the column Reference from Issue.

mysql> desc books;

+		+	4		+
Field	Туре	Null	Key	Default	Extra
lib_issue_id     book_no     member_id     issue_date     return_date     reference	int int int date date char(30)	YES   YES   YES   YES   YES		NULL NULL NULL NULL NULL	

6 rows in set (0.00 sec)

mysql> alter table books drop column reference; Query OK, 0 rows affected (0.03 sec) Records: 0 Duplicates: 0 Warnings: 0

mysql> desc books;

۷		L	L	L	L <b>.</b>	L	L
		Туре	Null	Key	Default	Extra	l
	lib_issue_id book_no member_id	int   int	YES YES YES	   	NULL	     	 
		date	•	•	NULL	İ	İ

8) Rename the table Issue to Lib\_Issue.

mysql> rename table books to lib\_issue;
Query OK, 0 rows affected (0.03 sec)

mysql> desc lib\_issue;

Field	Туре	+   Null +	Key	Default	++   Extra   ++
member_id	int int date date	YES YES YES YES YES	         	NULL NULL NULL NULL NULL	

\*\*\*\*\*\*\*

```
9) Insert following data in table Member
Member
TD
Member
Name
Member
Address
Acc_Open_Date Membership_type Fees_Paid Max_Books
_Allowed
Penalty_
Amount
1 Richa
Sharma
Pune 10-12-05 Lifetime 25000 5 50
2 Garima
Sen
Pune current date Annual 1000 3 Null
ans - ->
mysql> insert into member values(1, "Richa sharma", "pune", "2005-12-
10", "Annul", 25000, 5, 50);
Query OK, 1 row affected (0.04 sec)
mysgl> insert into member values(2, "garima
sen", "pune", now(), "lifetime", 1000, 3, Null);
Query OK, 1 row affected, 1 warning (0.02 sec)
mysql> select * from member;
+----+
| member_id | member_name | member_address | acc_open_date | membership_type |
fees_paid | max_book_allowed | penalty_amount |
+----+
                             | 2005-12-10 | Annul
50.00 |
      1 | Richa sharma | pune
      25000 | 5 |
                                   | 2024-06-07 | lifetime
       2 | garima sen | pune
3 |
                                                              NULL |
1000 |
+----+
10) Insert at least 5 records with suitable data
mysql> insert into member values(3, "prachiti thakur", "Pune", "2004-06-04", "Qu
arterly", 8000, 4, NULL);
Query OK, 1 row affected (0.02 sec)
mysql> insert into member values(4, "shreya zinzade", "Mumbai", "2005-04-06", "H
alf Yearly", 5000, 6, 60);
Query OK, 1 row affected (0.02 sec)
mysql> insert into member values(5, "pari thakur", "Nagpur", "2006-06-01", "Half
Yearly", 6700, 6, 40);
Query OK, 1 row affected (0.02 sec)
mysql> insert into member values(6, "akash patil", "banglore", "2023-12-
01", "Lifetime", 4000, 3, 30);
Query OK, 1 row affected (0.02 sec)
mysql> insert into member values(7, "mihir joshi", "mumbai", "2022-11-
01", "Quarterly", 3400, 3, 20);
Query OK, 1 row affected (0.00 sec)
```

```
mysql> select * from member;
+-----
| fees_paid | max_book_allowed | penalty_amount |
+-----+----+
        . - - - - - - + - - - - - - - - + - - - - - - - - + - - - - - - - + - - - - - - +
        1 | Richa sharma | pune | 2005-12-10 | lifetime

00 | 5 | 50.00 |

2 | garima sen | pune | 2024-06-07 | Annul

00 | 3 | NULL |
     25000 |
                                    NULL<sup>'</sup>|
| 2004-06-04 | quarterly
      1000 |
        3 | prachiti thakur | Pune
00 | 4 |
        4 | NULL |
4 | shreya zinzade | Mumbai | 20
00 | 6 | 60.00 |
5 | pari thakur | Nagpur | 20
00 | 6 | 40.00 |
6 | akash patil
      8000 |
                                     | 2005-04-06 | half yearly
      5000 |
                                     | 2006-06-01 | half yearly
                                     40.00 |
      6700 |
                         | banglore | 2023-12-01 | lifetime
        90 | 3 | 30.00 |
7 | mihir joshi | mumbai | 20
90 | 3 | 20.00 |
      4000 |
                                     30.00 |
                                     | 2022-11-01 | quarterly
+----+
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)
mysql> alter table member modify column member_name varchar(20);
12) Try to insert a record with Max_Books_Allowed = 110, Observe the
error that comes.
mysql> insert into member values(8, "pragati saste", "satara", "2002-03-
04", "Lifetime", 900, 1, 30);
Query OK, 1 row affected (0.02 sec)
mysql> select * from member;
| fees_paid | max_book_allowed | penalty_amount |
 1 | Richa sharma | pune | 2005-12-10 | lifetime
25000 | 5 | 50.00 |
2 | garima sen | pune | 2024-06-07 | Annul
1000 | 3 | NULL |
     25000 |
         3 | prachiti thakur | Pune
                                      | 2004-06-04
                                                       | quarterly
      8000 |
                                     NULL |
                          4 |
                                      | 2005-04-06
         4 | shreya zinzade | Mumbai
                                                        | half yearly
                        6 |
| Nagpur
6 |
                                     60.00 |
      5000 |
         5 | pari thakur
                                      | 2006-06-01
                                                        | half yearly
                                     40.00 |
      6700 |
        6 | akash patil | pangtore
30 | 3 |
7 | mihir joshi | mumbai
00 | 3 |
8 | pragati saste | satara
00 | 1 |
                          | banglore | 2023-12-01
                                                        | lifetime
      4000 |
                                     30.00 |
                                     | 2022-11-01 | quarterly
      3400 |
                                     20.00 |
                                     | 2002-03-04 | lifetime
       900 |
                                     30.00 |
```

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

mysql> create table member101 as(select \* from member);

Query OK, 8 rows affected (0.04 sec)

mysql> select \* from member101; +----+------+ member\_id | member\_name | member\_address | acc\_open\_date | membership\_type fees\_paid | max\_book\_allowed | penalty\_amount | 1 | Richa sharma 50.00 | 25000 | 5 | | 2024-06-07 | Annul 2 | garima sen | pune NULL | 1000 | 3 | | 2004-06-04 | quarterly 3 | prachiti thakur | Pune 8000 | NULL | 4 | 4 | shreya zinzade | Mumbai | half yearly | 2005-04-06 5000 | 60.00 | 6 | | half yearly 5 | pari thakur | Nagpur | 2006-06-01 6700 | 6 | 40.00 | 6 | akash patil | banglore 2023-12-01 | lifetime 4000 | 3 | 30.00 | 7 | mihir joshi | mumbai 2022-11-01 | quarterly 3400 | 3 | 20.00 | 2002-03-04 | lifetime 8 | pragati saste | satara 1 | 30.00 | 900 | 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 mysql> alter table member101 add constraint maxbook check(max\_book\_allowed<100);</pre> mysql> alter table member101 add constraint penulty check(penalty\_amount <=1000); Query OK, 8 rows affected (0.05 sec) Records: 8 Duplicates: 0 Warnings: 0 mysql> show create table member101; | Table | Create Table

Records: 8 Duplicates: 0 Warnings: 0

```
| member101 | CREATE TABLE `member101` (
  `member_id` int NOT NULL,
  member_name` varchar(20) DEFAULT NULL,
  member_address` varchar(50) DEFAULT NULL,
acc_open_date` date DEFAULT NULL,
  `membership_type` enum('lifetime','Annul','half yearly','quarterly') DEFAULT
NULL,
  `fees_paid` int DEFAULT NULL,
  `max_book_allowed` int DEFAULT NULL,
  penalty_amount` decimal(7,2) DEFAULT NULL,
 CONSTRAINT `maxbook` CHECK ((`max_book_allowed` < 100)),
CONSTRAINT `penulty` CHECK ((`penalty_amount` <= 1000))</pre>
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci |
 15) Drop the table books
mysql> show tables;
+----+
| Tables_in_agnmt |
| book
| library
| member
| member101
4 rows in set (0.00 sec)
mysql> drop table book;
Query OK, 0 rows affected (0.01 sec)
mysql> desc book;
ERROR 1146 (42S02): Table 'agnmt.book' doesn't exist
mysql>
**************************
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, Other
mysql> create table book
   -> (book_no int primary key,
   -> book_name varchar(30) not null,
   -> author_name varchar(30),
   -> cost decimal(7,2),
   -> category enum("system", "fiction", "databases", "RDBMS", "others"));
Query OK, 0 rows affected (0.02 sec)
mysql> desc book;
+----+
| Field
        | Type
                                                                | Null |
Key | Default | Extra |
+----+
          | int
l book no
                                                                NO
                                                                      1
PRI | NULL
                                                                | NO
| book_name | varchar(30)
                                                                      ı
| NULL
       | author_name | varchar(30)
                                                                | YES
NULL |
| cost
            \mid decimal(7,2)
                                                                | YES
NULL
          | enum('system','fiction','databases','RDBMS','others') | YES
```

```
| NULL | |
17) Insert data in Book table as follows:
Book N
Ω
Book Name Author Cost Categorymysql> insert into book values(1, "Lets us
 ,"Denis Ritchie" ,450,"system"),
   -> (2,"oracle complete ref","loni",550,"databases");
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 Scott
Urman
750 Databas
-->mysql> insert into book values(1, "Lets us c", "Denis Ritchie", 450, "system"),
   -> (2, "oracle complete ref", "loni", 550, "databases");
mysql> insert into book values(103, "Mastering SQL", "Loni
   "> ",250, "databases"),(104, "Pl-Sql", "scott urman",750, "databases");
Query OK, 2 rows affected (0.00 sec)
************
18) Insert more records in Book table
mysql> insert into book values(105, "Ravan", "sharad tandale", 350, "fiction");
Query OK, 1 row affected (0.01 sec)
mysql> insert into book values(106, "c++", "balgurusami", 560, "system");
Query OK, 1 row affected (0.02 sec)
mysql> insert into book values(107, "00p", "graddy bouch", 890, "system");
Query OK, 1 row affected (0.00 sec)
mysql> select * from book;
+----+
101 | Lets us c | Denis Ritchie | 450.00 | system
    102 | oracle complete ref | loni | 550.00 | databases |
    103 | Mastering SQL | Loni
       | 250.00 | databases |
    104 | Pl-Sql | scott urman | 750.00 | databases |
                      | sharad tandale | 350.00 | fiction |
    105 | Ravan
    106 | c++
                      | balgurusami | 560.00 | system
                      graddy bouch | 890.00 | system
    107 | 00p
+----+
7 rows in set (0.00 sec)
*************************
************
19) View the data in the tables using simple SQL query.
mysql> select * from book;
+----+
101 | Lets us c | Denis Ritchie | 450.00 | system
    102 | oracle complete ref | loni | 550.00 | databases |
    103 | Mastering SQL | Loni
```

```
| 250.00 | databases | |
                       | scott urman | 750.00 | databases |
| sharad tandale | 350.00 | fiction |
| balgurusami | 560.00 | system |
| graddy bouch | 890.00 | system |
    104 | Pl-Sql
    105 | Ravan
    106 | c++
    107 | 00p
+-----
20) Insert into Book following data.
105, National Geographic, Adis Scott, 1000, Scienc
mysql> insert into book values(105, "national geographic", "adis
scott",100,"science");
ERROR 1265 (01000): Data truncated for column 'category' at row 1
mysql> insert into book values(105, "national geographic", "adis
scott", 100, "others");
Query OK, 1 row affected (0.00 sec)
mysql> select * from book;
+----+
+------
                     ----+------------+-----+
    101 | Lets us c | Denis Ritchie | 450.00 | system |
    ------
21) Rename the table Lib_Issue to Issue
mysql> rename table lib_issue to issue;
Query OK, 0 rows affected (0.01 sec)
mysql> show tables;
+----+
| Tables_in_agnmt |
+----+
book
| issue
| library
| member
| member101
**********
**********
22) Drop table Issue.
mysql> drop table issue;
Query OK, 0 rows affected (0.01 sec)
mysql> show tables;
+----+
| Tables_in_agnmt |
| book
| library
| member
```

```
**********
23) As per the given structure Create table Issue again with following
constraints.
Lib_Issue_Id-Primary key

₱ Book_No- foreign key

√ Issue_date

₱ Return_date

mysql> alter table member101 add primary key(member_id);
Query OK, 0 rows affected (0.05 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> create table issue
    -> (lib_issue_id int primary key,
    -> book_no int,
    -> member_id int,
    -> issue_date date,
    -> return_date date,
    -> foreign key(book_no)
    -> references book(book_no),
    -> foreign key(member_id)
    -> references member101(member_id));
Query OK, 0 rows affected (0.02 sec)
mysql> show create table issue;
| issue | CREATE TABLE `issue` (
  `lib_issue_id` int NOT NULL,
  `book_no` int DEFAULT NULL,
  `member_id` int DEFAULT NULL,
`issue_date` date DEFAULT NULL,
  `return_date` date DEFAULT NULL,
 PRIMARY KEY (`lib_issue_id`),
KEY `book_no` (`book_no`),
KEY `member_id` (`member_id`),
 CONSTRAINT `issue_ibfk_1` FOREIGN KEY (`book_no`) REFERENCES `book`
(`book_no`),
 CONSTRAINT `issue_ibfk_2` FOREIGN KEY (`member_id`) REFERENCES `member101`
(`member_id`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci |
**********
24) Insert following data into Issue table.
mysql> insert into issue (lib_issue_id,book_no,member_id,issue_date)
values(7001,101,1,"2006-12-10"),
-> (7002,102,2,"2006-12-25"),(7003,104,1,"2006-12-06");
Query OK, 3 rows affected (0.00 sec)
Records: 3 Duplicates: 0 Warnings: 0
mysql> insert into issue
(lib_issue_id,book_no,member_id,issue_date)values(7004,101,1,"2006-06-04"),
**********
25) Remove the constraints on Issue table
mysql> alter table issue drop primary key;
mysql> alter table issue drop constraint `issue_ibfk_1`;
Query OK, 0 rows affected (0.01 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> alter table issue drop constraint `issue_ibfk_2`;
```

26) Insert a record in Issue table. The member\_id should not exist in member table mysql> insert into issue values(1,102,9,"2006-04-09",NULL); mysql> select \* from issue; +----+ | lib\_issue\_id | book\_no | member\_id | issue\_date | return\_date | +----+ 1 | 2006-12-10 | NULL 2 | 2006-12-25 | NULL 1 | 2006-01-15 | NULL 1 | 2006-06-04 | NULL 2 | 2006-11-06 | NULL 3 | 2006-02-18 | NULL 9 | 2006-04-09 | NULL 7001 | 101 | 7002 | 102 | 7003 | 104 | 7004 | 101 | 7005 | 104 | 101 | 7006 | 1 | 102 | 27) Now enable the constraints of Issue table. Observe the error mysql> alter table issue add foreign key(book\_no) references book(book\_no), -> add foreign key(member\_id) references member101(member\_id); ERROR 1452 (23000): Cannot add or update a child row: a foreign key constraint fails (`agnmt`.`#sql-1894\_9`, CONSTRAINT `issue\_ibfk\_2` FOREIGN KEY (`member\_id`) REFERENCES `member101` (`member\_id`)) mysql> \*\*\*\*\*\*\*\*\*\* 28) Delete the record inserted at Q-27) and enable the constraints mysql> delete from issue where lib\_issue\_id=1; mysql> alter table issue add foreign key(member\_id) references member101(member\_id); Query OK, 6 rows affected (0.03 sec) Records: 6 Duplicates: 0 Warnings: 0 mysql> show create table issue; -----+ | Table | Create Table I | issue | CREATE TABLE `issue` ( lib\_issue\_id` int NOT NULL, `book\_no` int DEFAULT NULL, `member\_id` int DEFAULT NULL, `issue\_date` date DEFAULT NULL,

`return\_date` date DEFAULT NULL,

```
PRIMARY KEY (`lib_issue_id`),
KEY `book_no` (`book_no`),
KEY `member_id` (`member_id`),
CONSTRAINT `issue_ibfk_1` FOREIGN KEY (`book_no`) REFERENCES `book`
 CONSTRAINT `issue_ibfk_2` FOREIGN KEY (`member_id`) REFERENCES `member101`
(`member_id`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci |
29) Try to delete the record of member id 1 from member table and
observe the error
 delete from member101 where member_id=1;
ERROR 1451 (23000): Cannot delete or update a parent row: a foreign key
constraint fails (`agnmt`.`issue`, CONSTRAINT `issue_ibfk_2` FOREIGN KEY
(`member_id`) REFERENCES `member101` (`member_id`))
we cannot delete it as it is referred to the another table as a foreign key
solution on delete set=NULL or on delete cascate, while adding foreign key
*************************
30) View the data and structure of all the three tables Member,
Issue, Book
mysql> desc member101;
| Field | Type
                                                              | Null |
Key | Default | Extra |
| member_iu
PRI | NULL | | |
Ther name | varchar(20)
                                                              l NO
| YES |
                                                              | YES |
                | varchar(50)
 acc_open_date |
NULL |
membersh
                | date
                                                              | YES
 NULL |
                | enum('lifetime', 'Annul', 'half yearly', 'quarterly') | YES
 membership_type
 NULL | |
 fees_paid
                                                              | YES
| NULL |
| max_book_allowed | int
                                                              | YES |
| NULL | |
| penalty_amount | decimal(7,2)
                                                              | YES |
| NULL |
+----+
8 rows in set (0.00 sec)
mysql> select * from member101;
+----+
| fees_paid | max_book_allowed | penalty_amount |
1 | Richa sharma | pune
                                     | 2005-12-10 | lifetime
     25000 |
                        5 |
                                   50.00
        2 | garima sen | pune
00 | 3 |
3 | prachiti thakur | Pune
                                   | 2024-06-07 | Annul
      1000 |
                                    NULL |
                                       | 2004-06-04 | quarterly
```

```
4 |
                                 NULL |
                                 | 2005-04-06 | half yearly
       4 | shreya zinzade | Mumbai
                       6 |
                                 60.00 |
     5000 I
                                 | 2006-06-01 | half yearly
       5 | pari thakur
                      | Nagpur
                      6 |
     6700 |
                                 40.00 |
        6 | akash patil
                      3 |
| mumbai
3 |
     4000 |
                                 30.00 |
       7 | mihir joshi
                                 | 2022-11-01 | quarterly
     3400 |
                                 20.00 |
       8 | pragati saste | satara
90 | 1 |
                                | 2002-03-04 | lifetime
      900 |
                                 30.00 |
                -------
8 \text{ rows in set } (0.00 \text{ sec})
mysql> desc book;
| Field | Type
                                                       | Null |
Key | Default | Extra |
                        -----+----
l NO
                                                             I
| book_name | varchar(30)
                                                       l NO
                                                             I
| NULL |
| author_name | varchar(30)
                                                       | YES |
| NULL |
cost
          | decimal(7,2)
                                                       | YES
category | enum('system','fiction','databases','RDBMS','others') | YES |
5 rows in set (0.00 \text{ sec})
mysql> select * from book;
101 | Lets us c | Denis Ritchie | 450.00 | system
    102 | oracle complete ref | loni | 550.00 | databases | 103 | Mastering SQl | loni | 550.00 | databases | 104 | Pl-Sql | scott urman | 750.00 | databases | 105 | national geographic | adis scott | 100.00 | others | 106 | c++ | balgurusami | 560.00 | system | 107 | 00p | graddy bouch | 890.00 | system |
7 rows in set (0.00 sec)
mysql> desc issue;
+----+
| Field | Type | Null | Key | Default | Extra |
+----+
| lib_issue_id | int | NO | PRI | NULL
| return_date | date | YES | | NULL
+----+
5 rows in set (0.00 sec)
mysql> select * from issue;
```

8000 I

```
| lib_issue_id | book_no | member_id | issue_date | return_date |
     1 | 2006-12-10 | NULL
2 | 2006-12-25 | NULL
1 | 2006-01-15 | NULL
         7001 |
                 101 |
                  102
        7002 |
        7003 |
                  104 |
                               1 | 2006-06-04 | NULL
                  101 |
         7004 |
                           2 | 2006-11-06 | NULL
3 | 2006-02-18 | NULL
         7005 |
                   104 |
         7006 |
                   101 |
```

\*

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

mysql> update issue\_set return\_date=date\_add(issue\_date,interval 15 day);

Query OK, 6 rows affected (0.03 sec)

Rows matched: 6 Changed: 6 Warnings: 0

mysql> select \* from issue;

lib_issue_id	book_no	member_id	issue_date	return_date
7001   7002   7003   7004   7005   7006	101   102   104   101   104	1   2   1   1   2   3	2006-12-10 2006-12-25 2006-01-15 2006-06-04 2006-11-06 2006-02-18	2006-12-25 2007-01-09 2006-01-30 2006-06-19 2006-11-21 2006-03-05

\*

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

mysql> select \* from issue;

++		+-		+
lib_issue_id	book_no	member_id	issue_date	return_date
7001	101		2006-12-10	2006-12-25
7002	102	2	2006-12-25	2007-01-09
7003	104	1	2006-01-15	2006-01-30
7004	101	1	2006-06-04	2006-06-19
7005	104	2	2006-11-06	2006-11-21
7006	101	3	2006-02-18	2006-03-05
				L <b>_ _</b>

6 rows in set (0.00 sec)

mysql> delete from issue where member\_id=1 and issue\_date<"2006-12-10";
Query OK, 2 rows affected (0.03 sec)</pre>

mysql> select \* from issue;

lib_issue_id	book_no	member_id	,	return_date
7001	101	1	2006-12-10	2006-12-25
7002	102	2	2006-12-25	2007-01-09
7005	104	2	2006-11-06	2006-11-21
7006	101	3	2006-02-18	2006-03-05

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

mysql> delete from book where category not in("databases", "RDBMS");

ERROR 1451 (23000): Cannot delete or update a parent row: a foreign key
constraint fails (`agnmt`.`issue`, CONSTRAINT `issue\_ibfk\_1` FOREIGN KEY
(`book\_no`) REFERENCES `book` (`book\_no`))
mysql>

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\*\*\*\*\*\*\*\*\*\*

34) Remove the table Member

mysql> drop table book;

ERROR 3730 (HY000): Cannot drop table 'book' referenced by a foreign key constraint 'issue\_ibfk\_1' on table 'issue'.

mysql> drop table member101;

ERROR 3730 (HY000): Cannot drop table 'member101' referenced by a foreign key constraint 'issue\_ibfk\_2' on table 'issue'.