Name : Kulvir Singh

Reg No = 19BCE2074

R-DBMS = MYSQL

SET NUMBER = 3

a>

```sql
create TABLE Genre(

  GenreName varchar(15) not NULL ,

  GenreType varchar(30) not NULL,

  Description varchar(100) Not NULL,

  PRIMARY key (GenreName)

);
```

Alter table genre add constraint chk check (GenreName = "War" or GenreName = "Thriller" or GenreName = "Romance" or GenreName = "Action");


```sql
create table Producer(

  ProdID varchar (5) not NULL,

  Producer_Name varchar(10) not NULL UNIQUE CHECK (Producer_Name = "20thFox" or Producer_Name = "Marvel" or Producer_Name = "Lyca"),

  City varchar(20) Not NULL,

  Country varchar(20) NOT NULL,

  Contact int NOT NULL,

  PRIMARY key (ProdID)

);
```

```sql
create table Movie(

  ID varchar(5) not NULL check (substr(ID,1,1)="M"),

  Title varchar(30) not NULL,

  Director varchar(20) not NULL,

  Producer varchar(10) Not NULL UNIQUE,
```

Year int not NULL,

Length int not NULL,

Genre varchar(15) not NULL unique,

Budget int NOT NULL,

PRIMARY key (ID),

FOREIGN key (Producer) REFERENCES Producer(producer_name),

FOREIGN KEY (Genre) REFERENCES Genre(genrename)

);

```
mysql> describe movie;
+-----------+-------------+------+-----+---------+-------+
| Field     | Type        | Null | Key | Default | Extra |
+-----------+-------------+------+-----+---------+-------+
| ID        | varchar(5)  | NO   | PRI | NULL    |       |
| Title     | varchar(30) | NO   |     | NULL    |       |
| Director  | varchar(20) | NO   |     | NULL    |       |
| Producer  | varchar(10) | NO   | UNI | NULL    |       |
| Year      | int         | NO   |     | NULL    |       |
| Length    | int         | NO   |     | NULL    |       |
| Genre     | varchar(15) | NO   | UNI | NULL    |       |
| Budget    | int         | NO   |     | NULL    |       |
+-----------+-------------+------+-----+---------+-------+
8 rows in set (0.03 sec)
```

```
mysql> describe producer;
+---------------+-------------+------+-----+---------+-------+
| Field         | Type        | Null | Key | Default | Extra |
+---------------+-------------+------+-----+---------+-------+
| ProdID        | varchar(5)  | NO   | PRI | NULL    |       |
| Producer_Name | varchar(10) | NO   | UNI | NULL    |       |
| City          | varchar(20) | NO   |     | NULL    |       |
| Country       | varchar(20) | NO   |     | NULL    |       |
| Contact       | int         | NO   |     | NULL    |       |
+---------------+-------------+------+-----+---------+-------+
5 rows in set (0.00 sec)
```

```
mysql> describe genre;
+-------------+--------------+------+-----+---------+-------+
| Field       | Type         | Null | Key | Default | Extra |
+-------------+--------------+------+-----+---------+-------+
| GenreName   | varchar(15)  | NO   | PRI | NULL    |       |
| GenreType   | varchar(30)  | NO   |     | NULL    |       |
| Description | varchar(100) | NO   |     | NULL    |       |
+-------------+--------------+------+-----+---------+-------+
3 rows in set (0.00 sec)
```

b>

alter table Genre drop constraint chk;

c>

INSERT into Producer values ("P0001","Marvel","LA","America",878982);

insert into Genre Values ("Action","16 plus","fight");

insert into Movie VALUES ("M3000","world war","Kumar","20thFox",2016,232,"Thriller",12000000);

Select*from Producer;

Select * from Genre;

Select * from Movie;

```
mysql> select * from Producer;
+--------+---------------+--------+---------+---------+
| ProdID | Producer_Name | City   | Country | Contact |
+--------+---------------+--------+---------+---------+
| P0001  | Marvel        | LA     | America |  878982 |
| P0002  | Lyca          | Madrid | Spain   |  978789 |
| P0003  | 20thFox       | Paris  | France  |  238789 |
+--------+---------------+--------+---------+---------+
3 rows in set (0.00 sec)

mysql> Select * from Genre;
+-----------+-----------+-------------------------------+
| GenreName | GenreType | Description                   |
+-----------+-----------+-------------------------------+
| Action    | 16 plus   | fight                         |
| Thriller  | 18 plus   | paranormal activity           |
| War       | 16 plus   | The war genre includes action |
+-----------+-----------+-------------------------------+
3 rows in set (0.00 sec)
```

```
mysql> select * from movie;
+-------+----------------+----------+---------+------+--------+----------+----------+
| ID    | Title          | Director | Producer | Year | Length | Genre    | Budget   |
+-------+----------------+----------+---------+------+--------+----------+----------+
| M1000 | V for Vendentta| Stephen  | Marvel  | 2012 |    222 | War      | 20000000 |
| M200  | hello          | Alex     | Lyca    | 2013 |    122 | Action   | 10000000 |
| M3000 | world war      | Kumar    | 20thFox | 2016 |    232 | Thriller | 12000000 |
+-------+----------------+----------+---------+------+--------+----------+----------+
3 rows in set (0.00 sec)
```

d>

1>

Select ID,title,budget from Movie where year=2015;

```
mysql> select ID,title,budget from Movie where year=2015;
Empty set (0.00 sec)
```

2>

delete from genre where (substr(description,1,3)="The");

```
mysql> delete from genre where (substr(description,1,3)="The");
Query OK, 1 row affected (0.01 sec)
```

3>

Update producer set country = "USA";

```
mysql>
mysql> update producer set country="USA";
Query OK, 3 rows affected (0.01 sec)
Rows matched: 3  Changed: 3  Warnings: 0
```

4>

Select producer from movie where (length=200 and budget=20000000);

```
mysql> Select producer from movie where (length=200 and budget=20000000);
Empty set (0.01 sec)
```