MOVIE DATABASE SYSTEM
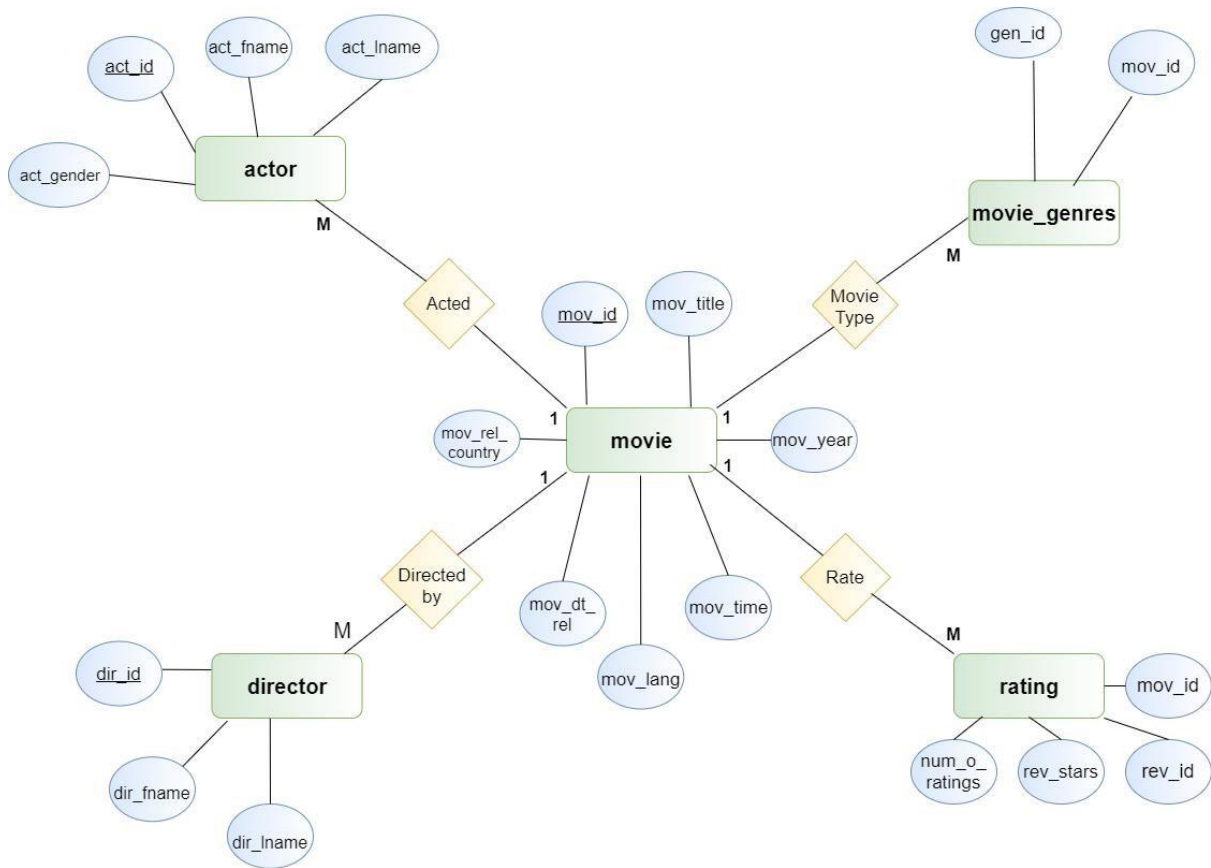
MINI PROJECT

ER DATA MODEL – DESIGN OF DATABASE

SECTION -B

IMPLEMENTATION OF MOVIE DATABSE MANAGEMENT SYSTEM

O SQL query to create table

```
mysql> create table movie(mov_id varchar(5) primary key,mov_title char(20),mov_year varchar(5),mov_time  varchar(5),mov_lang char(10),mov_dt_rel varchar(10),mov_rel_country char(10));
Query OK, 0 rows affected (0.03 sec)

mysql> create table movie_genres(mov_id varchar(5) references movie,gen_id varchar(5));
Query OK, 0 rows affected (0.03 sec)

mysql> create table actor(act_id varchar(5) primary key,act_fname char(10),act_lname char(10),act_gender char(5));
Query OK, 0 rows affected (0.03 sec)

mysql> create table director(dir_id varchar(5) primary key,dir_fname char(10),dir_lname char(10));
Query OK, 0 rows affected (0.03 sec)

mysql> create table rating(mov_id varchar(5) references movie,rev_id varchar(5),rev_stars varchar(5),num_o_ratings varchar(10));
Query OK, 0 rows affected (0.03 sec)

mysql>
```

O SQL query to display the description of tables.

```
mysql> desc movie;
+-----------------+-------------+------+-----+---------+-------+
| Field           | Type        | Null | Key | Default | Extra |
+-----------------+-------------+------+-----+---------+-------+
| mov_id          | varchar(5)  | NO   | PRI | NULL    |       |
| mov_title       | char(20)    | YES  |     | NULL    |       |
| mov_year        | varchar(5)  | YES  |     | NULL    |       |
| mov_time        | varchar(5)  | YES  |     | NULL    |       |
| mov_lang        | char(10)    | YES  |     | NULL    |       |
| mov_dt_rel      | varchar(10) | YES  |     | NULL    |       |
| mov_rel_country | char(10)    | YES  |     | NULL    |       |
+-----------------+-------------+------+-----+---------+-------+
7 rows in set (0.02 sec)

mysql> desc movie_genres;
+--------+------------+------+-----+---------+-------+
| Field  | Type       | Null | Key | Default | Extra |
+--------+------------+------+-----+---------+-------+
| mov_id | varchar(5) | YES  |     | NULL    |       |
| gen_id | varchar(5) | YES  |     | NULL    |       |
+--------+------------+------+-----+---------+-------+
2 rows in set (0.00 sec)

mysql> desc actor;
+------------+------------+------+-----+---------+-------+
| Field      | Type       | Null | Key | Default | Extra |
+------------+------------+------+-----+---------+-------+
| act_id     | varchar(5) | NO   | PRI | NULL    |       |
| act_fname  | char(10)   | YES  |     | NULL    |       |
| act_lname  | char(10)   | YES  |     | NULL    |       |
| act_gender | char(5)    | YES  |     | NULL    |       |
+------------+------------+------+-----+---------+-------+
4 rows in set (0.00 sec)

mysql> desc director;
+-----------+------------+------+-----+---------+-------+
| Field     | Type       | Null | Key | Default | Extra |
+-----------+------------+------+-----+---------+-------+
| dir_id    | varchar(5) | NO   | PRI | NULL    |       |
| dir_fname | char(10)   | YES  |     | NULL    |       |
| dir_lname | char(10)   | YES  |     | NULL    |       |
+-----------+------------+------+-----+---------+-------+
3 rows in set (0.00 sec)

mysql> desc rating;
+---------------+-------------+------+-----+---------+-------+
| Field         | Type        | Null | Key | Default | Extra |
+---------------+-------------+------+-----+---------+-------+
| mov_id        | varchar(5)  | YES  |     | NULL    |       |
| rev_id        | varchar(5)  | YES  |     | NULL    |       |
| rev_stars     | varchar(5)  | YES  |     | NULL    |       |
| num_o_ratings | varchar(10) | YES  |     | NULL    |       |
+---------------+-------------+------+-----+---------+-------+
4 rows in set (0.00 sec)
```

○ SQL query to insert values in the tables –

movie.

○ SQL query to insert values in the tables – movie_genres.

actor.

○ SQL query to insert values in the tables –

○ SQL query to insert values in the tables – director.

rating.

○ SQL query to insert values in the tables –

```
mysql> insert into rating values(901 , 9001 , 8.40 , 263575), (902, 9002 , 7.90 , 20207), (903 , 9003 , 8.30 , 202778), (906 , 9005 , 8.20 , 484746), (924 , 9006 , 7.30 ,NULL), (908 , 9007 , 8.60 , 779489), (909
, 9008 , NULL , 227235), (910 , 9009 , 3.00 , 195961), (911 , 9010 , 8.10 , 203875), (912 , 9011 , 8.40 ,NULL), (914 , 9013 , 7.00 , 862618), (915 , 9001 , 7.70 , 830095), (916 , 9014 , 4.00 , 642132), (925 , 9
015 , 7.70 , 81328), (918 , 9016 , NULL , 580301), (920 , 9017 , 8.10 , 609451), (921 , 9018 , 8.00 , 667758), (922 , 9019 , 8.40 , 511613), (923 , 9020 , 6.70 , 13091);
Query OK, 19 rows affected (0.01 sec)
Records: 19  Duplicates: 0  Warnings: 0

mysql> select * from rating;
+--------+--------+-----------+-------------+
| mov_id | rev_id | rev_stars | num_o_ratings |
+--------+--------+-----------+-------------+
| 901    | 9001   | 8.40      | 263575      |
| 902    | 9002   | 7.90      | 20207       |
| 903    | 9003   | 8.30      | 202778      |
| 906    | 9005   | 8.20      | 484746      |
| 924    | 9006   | 7.30      | NULL        |
| 908    | 9007   | 8.60      | 779489      |
| 909    | 9008   | NULL      | 227235      |
| 910    | 9009   | 3.00      | 195961      |
| 911    | 9010   | 8.10      | 203875      |
| 912    | 9011   | 8.40      | NULL        |
| 914    | 9013   | 7.00      | 862618      |
| 915    | 9001   | 7.70      | 830095      |
| 916    | 9014   | 4.00      | 642132      |
| 925    | 9015   | 7.70      | 81328       |
| 918    | 9016   | NULL      | 580301      |
| 920    | 9017   | 8.10      | 609451      |
| 921    | 9018   | 8.00      | 667758      |
| 922    | 9019   | 8.40      | 511613      |
| 923    | 9020   | 6.70      | 13091       |
+--------+--------+-----------+-------------+
19 rows in set (0.00 sec)

mysql>
```

○ SQL query to display the list of all the movies with year and genre id.

```
mysql> select mov_title,mov_year,gen_id from movie, movie_genres where movie.mov_id = movie_genres.mov_id;
+--------------------+----------+--------+
| mov_title          | mov_year | gen_id |
+--------------------+----------+--------+
| Aliens             | 1986     | 1001   |
| Deliverance        | 1972     | 1002   |
| Lawrence of Arabia | 1962     | 1002   |
| Princess Mononoke  | 1997     | 1003   |
| Annie Hall         | 1977     | 1005   |
| The Usual Suspects | 1995     | 1006   |
| Shawshank Redemption | 1994   | 1006   |
| Seven Samurai      | 1954     | 1007   |
| Back to the Future | 1985     | 1007   |
| Trainspotting      | 1996     | 1002   |
| Slumdog Millionaire | 2008    | 1007   |
| The Innocents      | 1961     | 1008   |
| Beyond the Sea     | 2004     | 1009   |
| Eyes Wide Shut     | 1999     | 1010   |
| Spirited Away      | 2001     | 1010   |
| Vertigo            | 1958     | 1010   |
| American Beauty    | 1999     | 1011   |
| Blade Runner       | 1982     | 1012   |
| The Deer Hunter    | 1978     | 1013   |
+--------------------+----------+--------+
19 rows in set (0.00 sec)
```

○ SQL query to display all the details of all Japanese movies with movie time more than 130 min.

```
mysql> select * from movie where mov_lang = "Japanese" and mov_time > 130;
+--------+-------------------+----------+----------+----------+------------+-----------------+
| mov_id | mov_title         | mov_year | mov_time | mov_lang | mov_dt_rel | mov_rel_country |
+--------+-------------------+----------+----------+----------+------------+-----------------+
| 912    | Princess Mononoke | 1997     | 134      | Japanese | 2001-10-19 | UK              |
| 926    | Seven Samurai     | 1954     | 207      | Japanese | 1954-04-26 | JP              |
+--------+-------------------+----------+----------+----------+------------+-----------------+
2 rows in set (0.01 sec)
```

- SQL query to display title and year of those movies which have rev stars less than 7.

```
mysql> select mov_title, mov_year from movie join rating on movie.mov_id=rating.mov_id and rev_stars<7;
+------------------+----------+
| mov_title        | mov_year |
+------------------+----------+
| Boogie Nights    | 1997     |
| Good Will Hunting| 1997     |
| Beyond the Sea   | 2004     |
+------------------+----------+
3 rows in set (0.00 sec)
```

- SQL query to find genre id of a movie titled 'The Deer Hunter'.

```
mysql> select movie_genres.gen_id from movie_genres, movie where movie.mov_id = movie_genres.mov_id and mov_title = 'The Deer Hunter';
+--------+
| gen_id |
+--------+
| 1013   |
+--------+
1 row in set (0.01 sec)
```

- SQL query to find the details of movies released in 1995.

```
mysql> select * from movie where mov_year = '1995';
+--------+-------------------+----------+----------+----------+------------+-----------------+
| mov_id | mov_title         | mov_year | mov_time | mov_lang | mov_dt_rel | mov_rel_country |
+--------+-------------------+----------+----------+----------+------------+-----------------+
| 908    | The Usual Suspects| 1995     | 106      | English  | 1995-08-25 | UK              |
| 925    | Braveheart        | 1995     | 178      | English  | 1995-09-08 | UK              |
+--------+-------------------+----------+----------+----------+------------+-----------------+
2 rows in set (0.00 sec)
```