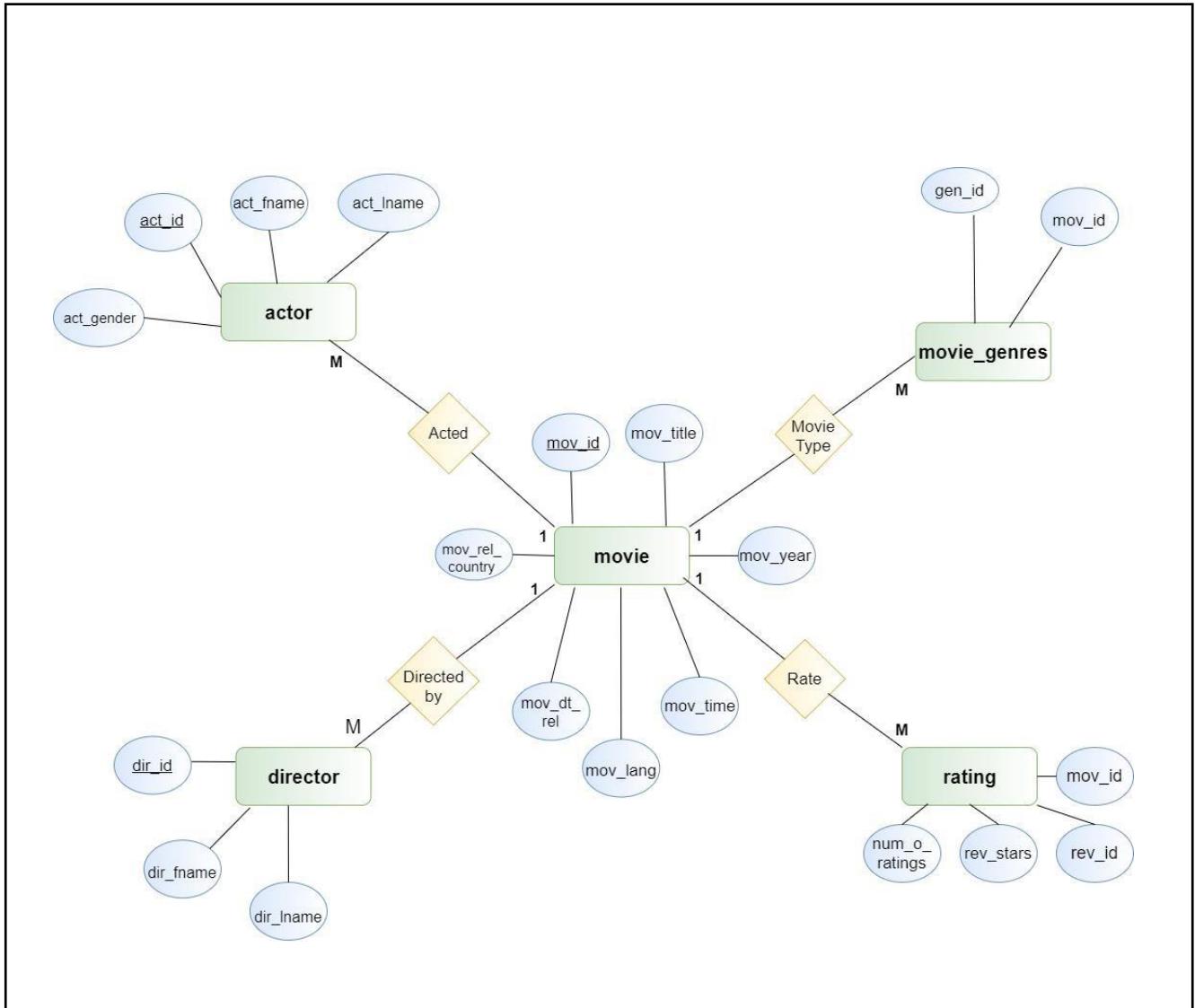


MOVIE DATABASE SYSTEM

MINI PROJECT

ER DATA MODEL – DESIGN OF DATABASE



SECTION -B

IMPLEMENTATION OF MOVIE DATABASE MANAGEMENT SYSTEM

○ 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> L
```

○ 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.

```
mysql> insert into movie values(901,"Vertigo",1958,128,"English","1958-08-24","UK"),(902,"The Innocents",1961,100,"English","1962-02-19","SW"),(903,"Lawrence of Arabia",1962,216,"English","1962-12-11","UK"),(904,"The Deer Hunter",1978,133,"English","1978-03-08","USA"),(905,"Amadeus",1984,169,"English","1985-09-05","UK"),(906,"Blue Murder",1982,111,"English","1983-09-04","UK"),(907,"Eyes Wide Shut",1999,159,"English","1999-09-11","UK"),(908,"The Annual Salary",1995,106,"English","1995-08-25","UK"),(909,"Chinatown",1974,117,"English","1974-08-09","UK"),(910,"Boogie Nights",1997,155,"English","1998-04-16","UK"),(911,"Annie Hall",1977,93,"English","1977-04-20","USA"),(912,"Princess Mononoke",1997,134,"Japanese","1998-01-19","UK"),(913,"Shawshank Redemption",1994,142,"English","1995-02-17","UK"),(914,"American Beauty",1999,122,"English",NULL,"U"),(915,"Titanic",1997,194,"English","1998-01-23","UK"),(916,"Good Will Hunting",1997,126,"English","1998-06-03","UK"),(917,"Deliverance",1972,109,"English","1982-10-05","UK"),(918,"Trainspotting",1996,94,"English","1996-02-23","UK"),(919,"The Prestige",2006,130,"English","2006-11-10","UK"),(920,"Avatar",2009,162,"English","2009-12-17","UK"),(921,"Slumdog Millionaire",2008,120,"English","2009-01-09","UK"),(922,"Aliens",1986,137,"English","1986-08-29","UK"),(923,"Beyond the Sea",2004,118,"English","2004-11-26","UK"),(924,"Avatar",2009,162,"English","2009-12-17","UK"),(925,"Braveheart",1995,178,"English","1995-09-08","UK"),(926,"Seven Samurai",1954,287,"Japanese","1954-04-26","JP"),(927,"Spirited Away",2001,125,"Japanese","2003-09-12","UK"),(928,"Back to the Future",1985,116,"English","1985-12-04","UK");
Query OK, 28 rows affected (0.01 sec)
Records: 28 Duplicates: 0 Warnings: 0
mysql> select * from movie;
+-----+-----+-----+-----+-----+-----+
| mov_id | mov_title | mov_year | mov_time | mov_lang | mov_dt_rel |
+-----+-----+-----+-----+-----+-----+
| 901 | Vertigo | 1958 | 128 | English | 1958-08-24 |
| 902 | The Innocents | 1961 | 100 | English | 1962-02-19 |
| 903 | Lawrence of Arabia | 1962 | 216 | English | 1962-12-11 |
| 904 | The Deer Hunter | 1978 | 133 | English | 1978-03-08 |
| 905 | Amadeus | 1984 | 169 | English | 1985-01-07 |
| 906 | Blue Murder | 1982 | 111 | English | 1983-09-04 |
| 907 | Eyes Wide Shut | 1999 | 159 | English | 1999-09-11 |
| 908 | The Annual Salary | 1995 | 106 | English | 1995-08-25 |
| 909 | Chinatown | 1974 | 117 | English | 1974-08-09 |
| 910 | Boogie Nights | 1997 | 155 | English | 1998-02-16 |
| 911 | Annie Hall | 1977 | 93 | English | 1977-04-20 |
| 912 | Princess Mononoke | 1997 | 134 | Japanese | 2001-10-19 |
| 913 | Shawshank Redemption | 1994 | 142 | English | 1995-02-17 |
| 914 | American Beauty | 1999 | 122 | English | NULL |
| 915 | Titanic | 1997 | 194 | English | 1998-01-23 |
| 916 | Good Will Hunting | 1997 | 126 | English | 1998-06-03 |
| 917 | Deliverance | 1972 | 109 | English | 1982-10-05 |
| 918 | Trainspotting | 1996 | 94 | English | 1996-02-23 |
| 919 | The Prestige | 2006 | 130 | English | 2006-11-10 |
| 920 | Avatar | 2009 | 162 | English | NULL |
| 921 | Slumdog Millionaire | 2008 | 120 | English | 2009-01-09 |
| 922 | Aliens | 1986 | 137 | English | 1986-08-29 |
| 923 | Beyond the Sea | 2004 | 118 | English | 2004-11-26 |
| 924 | Avatar | 2009 | 162 | English | 2009-12-17 |
| 925 | Braveheart | 1995 | 178 | English | 1995-09-08 |
| 926 | Seven Samurai | 1954 | 287 | Japanese | 1954-04-26 |
| 927 | Spirited Away | 2001 | 125 | Japanese | 2003-09-12 |
| 928 | Back to the Future | 1985 | 116 | English | 1985-12-04 |
+-----+-----+-----+-----+-----+
28 rows in set (0.00 sec)

mysql>
```

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

```
mysql> insert into movie_genres values(922 , 1001), (917 , 1002), (903 , 1002), (912 , 1003), (911 , 1005), (908 , 1006), (913 , 1006), (926 , 1007), (928 , 1007), (918 , 1007), (921 , 1007), (902 , 1008), (923 , 1009), (907 , 1010), (927 , 1010), (901 , 1010), (914 , 1011), (906 , 1012), (904 , 1013);
Query OK, 19 rows affected (0.01 sec)
Records: 19 Duplicates: 0 Warnings: 0
mysql> select * from movie_genre;
+-----+-----+
| mov_id | gen_id |
+-----+-----+
| 922 | 1001 |
| 917 | 1002 |
| 903 | 1002 |
| 912 | 1003 |
| 911 | 1005 |
| 908 | 1006 |
| 913 | 1006 |
| 926 | 1007 |
| 928 | 1007 |
| 918 | 1007 |
| 921 | 1007 |
| 902 | 1008 |
| 923 | 1009 |
| 907 | 1010 |
| 927 | 1010 |
| 901 | 1010 |
| 914 | 1011 |
| 906 | 1012 |
| 904 | 1013 |
+-----+-----+
19 rows in set (0.00 sec)

mysql>
```

actor.

○ SQL query to insert values in the tables -

```
mysql> insert into actor values(101,'James','Stewart','M'),(102,'Deborah','Kerr','F'),(103,'Peter','OToole','M'),(104,'Robert','De Niro','M'),(105,'F. Murray','Abraham','M'),(106,'Harrison','Ford','M'),(107,'Nicole','Kidman','F'),(108,'Stephen','Baldwin','M'),(109,'Jack','Nicholson','M'),(110,'Mark','Wahlberg','M'),(111,'Woody','Allen','M'),(112,'Claire','Danes','F'),(113,'Tim','Robbins','M'),(114,'Kevin','Spacey','M'),(115,'Kate','Winslet','F'),(116,'Robin','Williams','M'),(117,'Jon','Voight','M'),(118,'Ewan','McGregor','M'),(119,'Christian','Bale','M'),(120,'Maggie','Gyllenhaal','F'),(121,'Dev','Patel','M'),(122,'Sigourney','Weaver','F'),(123,'David','Aston','M'),(124,'Ali','Astin','F');
Query OK, 24 rows affected (0.01 sec)
Records: 24 Duplicates: 0 Warnings: 0

mysql> select * from actor;
+-----+-----+-----+-----+
| act_id | act_fname | act_lname | act_gender |
+-----+-----+-----+-----+
| 101   | James    | Stewart   | M          |
| 102   | Deborah  | Kerr      | F          |
| 103   | Peter    | OToole    | M          |
| 104   | Robert   | De Niro   | M          |
| 105   | F. Murray| Abraham  | M          |
| 106   | Harrison | Ford     | M          |
| 107   | Nicole   | Kidman   | F          |
| 108   | Stephen  | Baldwin  | M          |
| 109   | Jack     | Nicholson| M          |
| 110   | Mark     | Wahlberg | M          |
| 111   | Woody    | Allen    | M          |
| 112   | Claire   | Danes    | F          |
| 113   | Tim      | Robbins  | M          |
| 114   | Kevin    | Spacey   | M          |
| 115   | Kate     | Winslet  | F          |
| 116   | Robin    | Williams | M          |
| 117   | Jon      | Voight   | M          |
| 118   | Ewan    | McGregor | M          |
| 119   | Christian| Bale     | M          |
| 120   | Maggie   | Gyllenhaal| F          |
| 121   | Dev      | Patel    | M          |
| 122   | Sigourney| Weaver   | F          |
| 123   | David    | Aston    | M          |
| 124   | Ali      | Astin    | F          |
+-----+-----+-----+-----+
24 rows in set (0.00 sec)

mysql>
```

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

```
mysql> insert into director values(201,'Alfred','Hitchcock'),(202,'Jack','Clayton'),(203,'David','Lean'),(204,'Michael','Cimino'),(205,'Milos','Forman'),(206,'Ridley','Scott'),(207,'Stanley','Kubrick'),(208,'Brynn','Singer'),(209,'Roman','Polanski'),(210,'Paul','Anderson'),(211,'Woody','Allen'),(212,'Hayao','Miyazaki'),(213,'Frank','Darabont'),(214,'Sam','Mendes'),(215,'James','Cameron'),(216,'Gus','Van Sant'),(217,'John','Boorman'),(218,'Danny','Boyle'),(219,'Christoph','Nolan'),(220,'Richard','Kelly'),(221,'Kevin','Spacey'),(222,'Andrei','Tarkovsky'),(223,'Peter','Jackson');
Query OK, 23 rows affected (0.01 sec)
Records: 23 Duplicates: 0 Warnings: 0

mysql> select * from director;
+-----+-----+-----+
| dir_id | dir_fname | dir_lname |
+-----+-----+-----+
| 201   | Alfred   | Hitchcock |
| 202   | Jack     | Clayton   |
| 203   | David    | Lean       |
| 204   | Michael  | Cimino    |
| 205   | Milos    | Forman    |
| 206   | Ridley   | Scott      |
| 207   | Stanley  | Kubrick   |
| 208   | Bryan    | Singer    |
| 209   | Roman   | Polanski  |
| 210   | Paul     | Anderson  |
| 211   | Woody   | Allen     |
| 212   | Hayao   | Miyazaki  |
| 213   | Frank   | Darabont  |
| 214   | Sam     | Mendes   |
| 215   | James   | Cameron   |
| 216   | Gus     | Van Sant  |
| 217   | John    | Boorman   |
| 218   | Danny   | Boyle     |
| 219   | Christoph| Nolan    |
| 220   | Richard  | Kelly     |
| 221   | Kevin   | Spacey   |
| 222   | Andrei  | Tarkovsky|
| 223   | Peter   | Jackson   |
+-----+-----+-----+
23 rows in set (0.00 sec)

mysql>
```

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 , 7.70 , 81328), (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);
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.movie_id;
+-----+-----+-----+
| mov_title | mov_year | gen_id |
+-----+-----+-----+
| Aliens   | 1986   | 1002  |
| Deliverance | 1972   | 1002  |
| Lawrence of Arabia | 1962   | 1002  |
| Princess Mononoke | 1997   | 1003  |
| Apollo 13  | 1995   | 1005  |
| The Usual Suspects | 1995   | 1006  |
| Seven Samurai | 1954   | 1007  |
| Back to the Future | 1985   | 1007  |
| Trainspotting | 1996   | 1007  |
| Slumdog Millionaire | 2008   | 1007  |
| The Innocents | 1963   | 1008  |
| Beyond the Sea | 2004   | 1009  |
| Eyes Wide Shut | 1999   | 1010  |
| Spirited Away | 2001   | 1010  |
| Vertigo   | 1958   | 1011  |
| American Beauty | 1999   | 1012  |
| 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 | 134.0 | Japanese | 2001-10-19 | JP |
| 930   | Seven Samurai | 1954 | 267.0 | Japanese | 1954-04-28 | JP |
+-----+-----+-----+-----+-----+-----+
1 row 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 |
+-----+-----+-----+-----+-----+-----+
| 968   | 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)
```