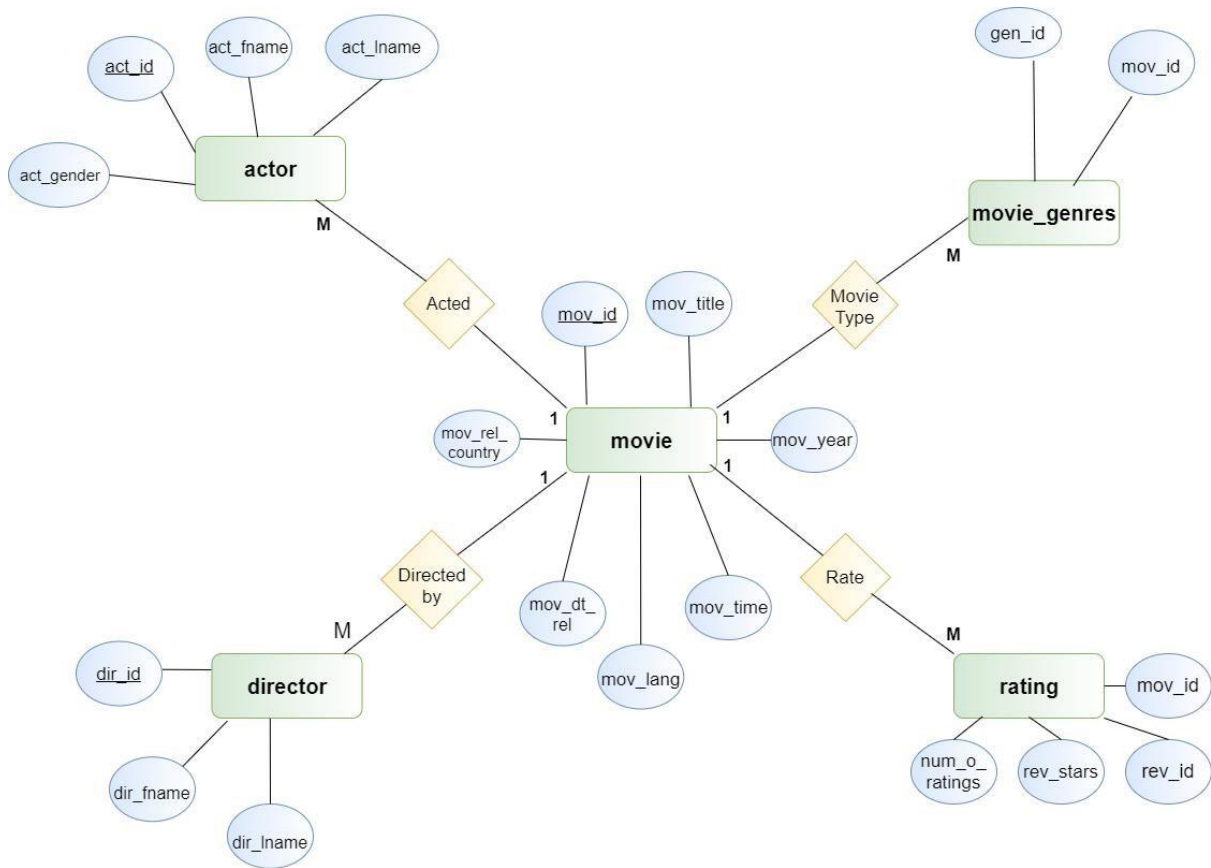


MOVIE DATABASE SYSTEM

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>
```

○ 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",1978,183,"English","1979-03-08","UK"),(905,"Amadeus",1984,160,"English","1985-01-07","UK"),(906,"Blade Runner",1982,117,"English","1982-09-09","UK"),(907,"Eyes Wide Shut",1999,159,"English",NULL,"UK"),(908,"The Usual Suspects",1995,106,"English","1995-08-25","UK"),(909,"Chinatown",1974,130,"English","1974-08-09","UK"),(910,"Boogie Nights",1997,155,"English","1998-02-16","UK"),(911,"Annie Hall",1977,93,"English","1977-04-20","USA"),(912,"Princess Mononoke",1997,134,"Japanese","2001-10-19","UK"),(913,"Shawshank Redemption",1994,142,"English","1995-02-17","UK"),(914,"American Beauty",1999,122,"English",NULL,"UK"),(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,"Donnie Darko",2001,113,"English",NULL,"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,"Seven Samurai",1954,207,"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"),(929,"Braveheart",1995,178,"English","1995-09-08","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 | mov_rel_country |
+-----+-----+-----+-----+-----+-----+
| 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 | 183 | English | 1979-03-08 | UK |
| 905 | Amadeus | 1984 | 160 | English | 1985-01-07 | UK |
| 906 | Blade Runner | 1982 | 117 | English | 1982-09-09 | UK |
| 907 | Eyes Wide Shut | 1999 | 159 | English | NULL | UK |
| 908 | The Usual Suspects | 1995 | 106 | English | 1995-08-25 | UK |
| 909 | Chinatown | 1974 | 130 | English | 1974-08-09 | UK |
| 910 | Boogie Nights | 1997 | 155 | English | 1998-02-16 | UK |
| 911 | Annie Hall | 1977 | 93 | English | 1977-04-20 | USA |
| 912 | Princess Mononoke | 1997 | 134 | Japanese | 2001-10-19 | UK |
| 913 | Shawshank Redemption | 1994 | 142 | English | 1995-02-17 | UK |
| 914 | American Beauty | 1999 | 122 | English | NULL | UK |
| 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 | Donnie Darko | 2001 | 113 | English | NULL | 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 | 207 | 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 |
+-----+-----+-----+-----+-----+-----+
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_genres;
ERROR 1146 (42S02): Table 'movie_genres' doesn't exist
mysql> select * from movie_genres;
+-----+-----+
| 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','O'Toole','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,'All','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    | O'Toole   | 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    | All      | Astin     | F          |
+-----+-----+-----+-----+
24 rows in set (0.00 sec)
```

○ 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,'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');
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)
```

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, 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.mov_id;
+-----+-----+-----+
| mov_title | mov_year | gen_id |
+-----+-----+-----+
| Aliens    | 1986    | 1001   |
| Deliverance | 1972    | 1002   |
| Lawrence of Arabia | 1962    | 1003   |
| Princess Mononoke | 1997    | 1004   |
| Annie Hall | 1977    | 1005   |
| The Usual Suspects | 1995    | 1006   |
| Shogunsho Redemption | 1994    | 1007   |
| Seven Samurai | 1954    | 1008   |
| Back to the Future | 1985    | 1009   |
| Foolsyottling | 1996    | 1010   |
| Winning Millionsaire | 1988    | 1011   |
| The Innocents | 1961    | 1012   |
| Beyond the Sea | 1984    | 1013   |
| Eyes Wide Shut | 1999    | 1014   |
| Spirited Away | 2001    | 1015   |
| Vertigo     | 1958    | 1016   |
| American Beauty | 1999    | 1017   |
| Blade Runner | 1982    | 1018   |
| The Deer Hunter | 1978    | 1019   |
+-----+-----+-----+
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_ft_rel | mov_rel_country |
+-----+-----+-----+-----+-----+-----+
| 912    | Princess Mononoke | 1997    | 134     | Japanese | 2001-10-19 | US              |
| 926    | Seven Samurai | 1954    | 207     | Japanese | 1954-04-20 | 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)
```