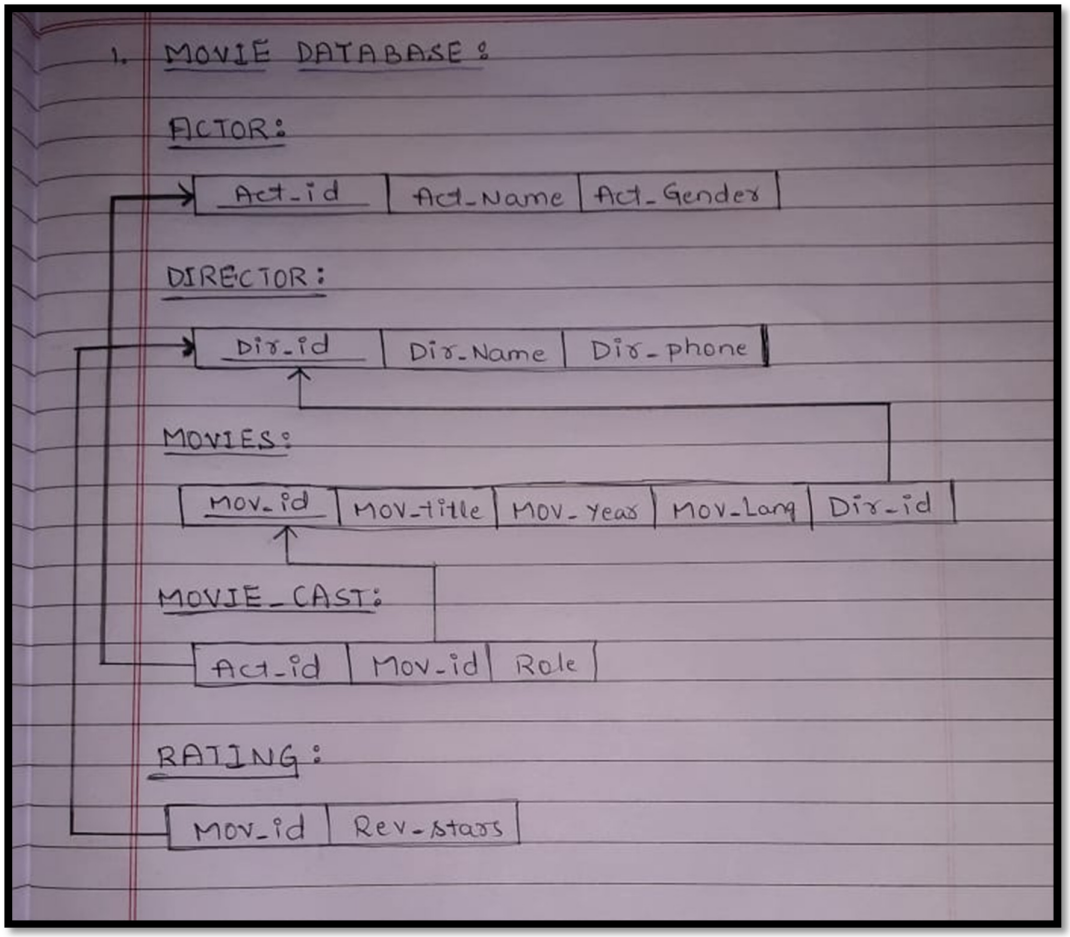
MOVIE DATABASE

SCHEMA:



ACTOR TABLE:

```
MariaDB [m_movie]> desc actor;
+------------+-------------+------+-----+---------+-------+
| Field      | Type        | Null | Key | Default | Extra |
+------------+-------------+------+-----+---------+-------+
| act_id     | int(11)     | NO   | PRI | NULL    |       |
| act_name   | varchar(20) | YES  |     | NULL    |       |
| act_gender | varchar(1)  | YES  |     | NULL    |       |
+------------+-------------+------+-----+---------+-------+
3 rows in set (0.004 sec)
```

ACTOR TABLE VALUES:

```
MariaDB [m_movie]> select * from actor;
+--------+-----------------+------------+
| act_id | act_name        | act_gender |
+--------+-----------------+------------+
|    101 | Varun Dhavan    | M          |
|    102 | shraddha kapoor | F          |
|    103 | Shahid          | M          |
|    104 | Akshay          | M          |
|    105 | Deepika         | F          |
+--------+-----------------+------------+
5 rows in set (0.001 sec)
```

MOVIE DATABASE

DIRECTOR TABLE:

```
MariaDB [m_movie]> desc director;
+-----------+-------------+------+-----+---------+-------+
| Field     | Type        | Null | Key | Default | Extra |
+-----------+-------------+------+-----+---------+-------+
| dir_id    | int(11)     | NO   | PRI | NULL    |       |
| dir_name  | varchar(20) | YES  |     | NULL    |       |
| dir_phone | varchar(10) | YES  |     | NULL    |       |
+-----------+-------------+------+-----+---------+-------+
3 rows in set (0.158 sec)
```

DIRECTOR TABLE VALUES:

```
MariaDB [m_movie]> select * from director;
+--------+--------------------+------------+
| dir_id | dir_name           | dir_phone  |
+--------+--------------------+------------+
|     11 | Karan              | 8987565412 |
|     12 | HitchCock          | 7865254589 |
|     13 | Rajamouli          | 9768483512 |
|     14 | Remo               | 8987565412 |
|     15 | steven splielberg  | 9868483512 |
+--------+--------------------+------------+
5 rows in set (0.117 sec)
```

MOVIES TABLE:

```
MariaDB [m_movie]> desc movies;
+-----------+-------------+------+-----+---------+-------+
| Field     | Type        | Null | Key | Default | Extra |
+-----------+-------------+------+-----+---------+-------+
| mov_id    | int(11)     | NO   | PRI | NULL    |       |
| mov_title | varchar(20) | YES  |     | NULL    |       |
| mov_year  | varchar(5)  | YES  |     | NULL    |       |
| mov_lang  | varchar(20) | YES  |     | NULL    |       |
| dir_id    | int(11)     | YES  | MUL | NULL    |       |
+-----------+-------------+------+-----+---------+-------+
5 rows in set (0.018 sec)
```

MOVIES TABLE VALUES:

```
MariaDB [m_movie]> select * from movies;
+--------+----------------+----------+----------+--------+
| mov_id | mov_title      | mov_year | mov_lang | dir_id |
+--------+----------------+----------+----------+--------+
|   1001 | Street Dancers | 2020-    | English  |     14 |
|   1002 | Bahubali       | 2015-    | Telagu   |     13 |
|   1003 | War House      | 1999-    | English  |     12 |
|   1004 | Akash          | 2008-    | Kannada  |     11 |
|   1005 | Street Dancers | 2020-    | Hindi    |     15 |
+--------+----------------+----------+----------+--------+
5 rows in set (0.020 sec)
```

MOVIE DATABASE

MOVIES_CAST TABLE:

```
MariaDB [m_movie]> desc movie_cast;
+--------+-------------+------+-----+---------+-------+
| Field  | Type        | Null | Key | Default | Extra |
+--------+-------------+------+-----+---------+-------+
| act_id | int(11)     | YES  | MUL | NULL    |       |
| mov_id | int(11)     | YES  | MUL | NULL    |       |
| role   | varchar(20) | YES  |     | NULL    |       |
+--------+-------------+------+-----+---------+-------+
3 rows in set (0.076 sec)
```

MOVIES_CAST TABLE VALUES:

```
MariaDB [m_movie]> select * from movie_cast;
+--------+--------+---------+
| act_id | mov_id | role    |
+--------+--------+---------+
|    101 |   1001 | Hero    |
|    102 |   1002 | Heroine |
|    103 |   1003 | Hero    |
|    104 |   1004 | Hero    |
|    101 |   1005 | Hero    |
+--------+--------+---------+
5 rows in set (0.001 sec)
```

RATING TABLE:

```
MariaDB [m_movie]> desc rating;
+-----------+---------+------+-----+---------+-------+
| Field     | Type    | Null | Key | Default | Extra |
+-----------+---------+------+-----+---------+-------+
| mov_id    | int(11) | YES  | MUL | NULL    |       |
| rev_stars | int(11) | YES  |     | NULL    |       |
+-----------+---------+------+-----+---------+-------+
2 rows in set (0.059 sec)
```

RATING TABLE VALUES:

```
MariaDB [m_movie]> select *  from rating;
+--------+-----------+
| mov_id | rev_stars |
+--------+-----------+
|   1001 |         5 |
|   1002 |         1 |
|   1003 |         4 |
|   1004 |         2 |
|   1005 |         3 |
+--------+-----------+
5 rows in set (0.045 sec)
```

MOVIE DATABASE

QUERIES:

01. List the titles of all movies directed by ‘Hitchcock’.

```
MariaDB [m_movie]> select mov_title from movies
    -> where dir_id in (select dir_id from director
    -> where dir_name='Hitchcock');
+-----------+
| mov_title |
+-----------+
| War House |
+-----------+
1 row in set (0.094 sec)
```

02. Find the movie names where one or more actors acted in two or more movies.

```
MariaDB [m_movie]> select mov_title from movies m, movie_cast mv
    -> where m.mov_id=mv.mov_id and act_id in( select act_id
    -> from movie_cast group by act_id
    -> having count( act_id)>1)
    -> group by mov_title having count(*)>1;
+----------------+
| mov_title      |
+----------------+
| Street Dancers |
+----------------+
1 row in set (0.237 sec)
```

03. List all actors who acted in a movie before 2000 and also in a movie after 2015 (use JOIN operation).

```
MariaDB [m_movie]> select act_name from actor a
    -> join movie_cast c on
    -> a.act_id=c.act_id
    -> join movies m on
    -> c.mov_id=m.mov_id
    -> where m.mov_year not between '2000-01-01' and '2015-01-01';
+--------------+
| act_name     |
+--------------+
| Varun Dhavan |
| Shahid       |
| Varun Dhavan |
+--------------+
3 rows in set (0.042 sec)
```

MOVIE DATABASE

04. Find the title of movies and number of stars for each movie that has at least one rating and find the highest number of stars that movie received. Sort the result by movie title.

```
MariaDB [m_movie]> select mov_title ,max(rev_stars) from movies
    -> inner join rating using(mov_id)
    -> group by mov_title having max(rev_stars)>0
    -> order by mov_title;
+-----------------+-----------------+
| mov_title       | max(rev_stars) |
+-----------------+-----------------+
| Akash           |               2 |
| Bahubali        |               1 |
| Street Dancers  |               5 |
| War House       |               4 |
+-----------------+-----------------+
4 rows in set (0.067 sec)
```

05. Update rating of all movies directed by 'Steven Spielberg' to 5.

```
MariaDB [m_movie]> update rating
    -> set rev_stars=5 where mov_id
    -> in(select mov_id from movies where dir_id
    -> in(select dir_id from director where dir_name='steven splielberg'));
Query OK, 1 row affected (0.138 sec)
Rows matched: 1  Changed: 1  Warnings: 0

MariaDB [m_movie]> select * from rating;
+--------+-----------+
| mov_id | rev_stars |
+--------+-----------+
|   1001 |         5 |
|   1002 |         1 |
|   1003 |         4 |
|   1004 |         2 |
|   1005 |         5 |
+--------+-----------+
5 rows in set (0.000 sec)
```