

VAIBHAVI PATIL
1BM19S217
CSE SEC 'A'

```
CREATE DATABASE MOVIEDB;  
USE MOVIEDB;  
CREATE TABLE ACTOR (  
  ACT_ID INT,  
  ACT_NAME VARCHAR (20),  
  ACT_GENDER CHAR (1),  
  PRIMARY KEY (ACT_ID));
```

```
CREATE TABLE DIRECTOR (  
  DIR_ID INT,  
  DIR_NAME VARCHAR (20),  
  DIR_PHONE LONG,  
  PRIMARY KEY (DIR_ID));
```

```
CREATE TABLE MOVIES (  
  MOV_ID INT,  
  MOV_TITLE VARCHAR (25),  
  MOV_YEAR INT,  
  MOV_LANG VARCHAR (12),  
  DIR_ID INT,  
  PRIMARY KEY (MOV_ID),  
  FOREIGN KEY (DIR_ID) REFERENCES DIRECTOR (DIR_ID));
```

```
CREATE TABLE MOVIE_CAST (  
  ACT_ID INT,  
  MOV_ID INT,  
  ROLE VARCHAR(10),  
  PRIMARY KEY (ACT_ID, MOV_ID),  
  FOREIGN KEY(ACT_ID) REFERENCES ACTOR(ACT_ID) ON DELETE CASCADE,  
  FOREIGN KEY(MOV_ID) REFERENCES MOVIES(MOV_ID) ON DELETE CASCADE);
```

```
CREATE TABLE RATING (  
  MOV_ID INT,  
  REV_STARS VARCHAR (25),  
  PRIMARY KEY (MOV_ID),  
  FOREIGN KEY (MOV_ID) REFERENCES MOVIES (MOV_ID));
```

```
INSERT INTO ACTOR VALUES ("301","ANUSHKA","F"),  
                           ("302","PRABHAS","M"),  
                           ("303","PUNITH","M"),
```

```
("304","JERMY","M");
```

```
INSERT INTO DIRECTOR VALUES ("60","RAJAMOULI", "8751611001"),  
    ("61","HITCHCOCK", "7766138911"),  
    ("62","FARAN", "9986776531"),  
    ("63","STEVEN SPIELBERG", "8989776530");
```

```
INSERT INTO MOVIES VALUES ("1001","BAHUBALI-2", "2017","TELAGU", "60"),  
    ("1002","BAHUBALI-1", "2015", "TELAGU", "60"),  
    ("1003","AKASH", "2008", "KANNADA", "61"),  
    ("1004","WAR HORSE", "2011", "ENGLISH", "63");
```

```
INSERT INTO MOVIE_CAST VALUES ("301","1002", "HEROINE"),  
    ("301","1001", "HEROINE"),  
    ("303", "1003", "HERO"),  
    ("303", "1002", "GUEST"),  
    ("304", "1004", "HERO");
```

```
INSERT INTO RATING VALUES ("1001","4"),  
    ("1002", "2"),  
    ("1003","5"),  
    ("1004", "4");
```

```
SELECT * FROM ACTOR;  
SELECT * FROM DIRECTOR;  
SELECT * FROM MOVIES;  
SELECT * FROM MOVIE_CAST;  
SELECT * FROM RATING;
```

```
/*1. List the titles of all movies directed by 'Hitchcock'. */
```

```
SELECT MOV_TITLE  
FROM MOVIES  
WHERE DIR_ID IN (SELECT DIR_ID  
FROM DIRECTOR  
WHERE DIR_NAME = 'HITCHCOCK');
```

```
/*2. Find the movie names where one or more actors acted in two or more movies. */  
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;
```

/*3. List all actors who acted in a movie before 2000 and also in a movie after 2015 (use JOIN operation).*/

```
SELECT ACT_NAME, MOV_TITLE, MOV_YEAR
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 AND 2015;
```

/*4. 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. */

```
SELECT MOV_TITLE,MAX(REV_STARS)
FROM MOVIES M,RATING R
WHERE M.MOV_ID=R.MOV_ID
GROUP BY MOV_TITLE
HAVING COUNT(*)>=1
ORDER BY MOV_TITLE;
```

/*5. Update rating of all movies directed by 'Steven Spielberg' to 5 KL */

```
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 SPIELBERG'));
```

```
select * from rating;
```