CREATE TABLE ACTOR (ACT\_ID NUMBER (3), ACT\_NAME VARCHAR (20), ACT\_GENDER CHAR (1), PRIMARY KEY (ACT\_ID));

CREATE TABLE DIRECTOR (DIR\_ID NUMBER (3), DIR\_NAME VARCHAR (20), DIR\_PHONE NUMBER (10), PRIMARY KEY (DIR\_ID));

CREATE TABLE MOVIES (MOV\_ID NUMBER (4), MOV\_TITLE VARCHAR (25), MOV\_YEAR NUMBER (4), MOV\_LANG VARCHAR (12), DIR\_ID NUMBER (3), PRIMARY KEY (MOV ID), FOREIGN KEY (DIR ID) REFERENCES DIRECTOR (DIR ID));

CREATE TABLE MOVIE\_CAST (ACT\_ID NUMBER (3), MOV\_ID NUMBER (4), ROLE VARCHAR (10), PRIMARY KEY (ACT\_ID, MOV\_ID), FOREIGN KEY (ACT\_ID) REFERENCES ACTOR (ACT\_ID), FOREIGN KEY (MOV\_ID) REFERENCES MOVIES (MOV\_ID));

CREATE TABLE RATING (MOV\_ID NUMBER (4), REV\_STARS VARCHAR (25), PRIMARY KEY (MOV\_ID), FOREIGN KEY (MOV\_ID) REFERENCES MOVIES (MOV\_ID));

#### **Insertion of Values to Tables**

INSERT INTO ACTOR VALUES (301, 'ANUSHKA', 'F');

Insert as many as required rows

INSERT INTO DIRECTOR VALUES (60, 'RAJAMOULI', 1111122222);

Insert as many as required rows

INSERT INTO MOVIES VALUES (1001, 'BAHUBALI-2', 2017, 'TELAGU', 60);

Insert as many as required rows

INSERT INTO MOVIE CAST VALUES (301, 1002, 'HEROINE');

Insert as many as required rows

INSERT INTO RATING VALUES (1001, 4);

Insert as many as required rows

# **Queries:**

## 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).

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;

OR

SELECT A.ACT\_NAME, A.ACT\_NAME, C.MOV\_TITLE, C.MOV\_YEAR

FROM ACTOR A, MOVIE CAST B, MOVIES C

WHERE A.ACT ID=B.ACT ID

AND B.MOV ID=C.MOV ID

AND C.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
INNER JOIN RATING USING (MOV\_ID)
GROUP BY MOV\_TITLE
HAVING MAX (REV\_STARS)>0
ORDER BY MOV\_TITLE;

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

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'));