

## Lab 9 :-

```
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 INT,  
  PRIMARY KEY (DIR_ID));
```

```
CREATE TABLE MOVIES(  
  MOV_ID INT,  
  MOV_TITLE VARCHAR (50),  
  MOV_YEAR INT,  
  MOV_LANG VARCHAR (20),  
  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 (20),  
  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 INT,  
REV_STARS VARCHAR (20),  
PRIMARY KEY (MOV_ID),  
FOREIGN KEY (MOV_ID) REFERENCES MOVIES (MOV_ID));
```

```
INSERT INTO ACTOR VALUES (101,'HENA','F'),  
(102,'RON','M'),  
(103,'SAMA','F'),  
(104,'JERMY','M'),  
(105,'RIA','F');
```

```
INSERT INTO DIRECTOR VALUES (50,'IAN', 8751611001),  
(51,'HITCHCOCK', 7766138911),  
(52,'STEFF', 9986776531),  
(53,'STEVEN SPIELBERG', 8989776530),  
(54,'STANLEY KUBRICK', 8745963210);
```

```
INSERT INTO MOVIES VALUES (1001,'MINORITY REPORT', 2002,'ENGLISH',53),  
(1002,'LIFE', 2016,'ENGLISH',50),  
(1003,'HOW TO BE GOOD', 2008,'FRENCH',51),  
(1004,'WAR OF WORLDS', 2005,'ENGLISH', 53),  
(1005,'2002:SPACE ODESSY',1968,'ENGLISH', 54);
```

```
INSERT INTO MOVIE_CAST VALUES (101, 1002,'HEROINE'),  
(103, 1001,'HEROINE'),  
(102, 1003,'HERO'),  
(103, 1004,'GUEST'),
```

```
(105, 1005,'GUEST'),  
(105, 1002,'GUEST'),  
(104, 1004,'HERO');
```

```
INSERT INTO RATING VALUES (1001,4),  
(1002,2),  
(1003,3),  
(1004,5),  
(1005,4);
```

```
SELECT * FROM ACTOR;
```

```
101|HENA|F  
102|RON|M  
103|SAMA|F  
104|JERMY|M  
105|RIA|F
```

```
[Program exited with exit code 0]
```

```
SELECT * FROM DIRECTOR;
```

```
50|IAN|8751611001  
51|HITCHCOCK|7766138911  
52|STEFF|9986776531  
53|STEVEN SPIELBERG|8989776530  
54|STANLEY KUBRICK|8745963210  
  
[Program exited with exit code 0]
```

```
SELECT * FROM MOVIES;
```

```
1001|MINORITY REPORT|2002|ENGLISH|53  
1002|LIFE|2016|ENGLISH|50  
1003|HOW TO BE GOOD|2008|FRENCH|51  
1004|WAR OF WORLDS|2005|ENGLISH|53  
1005|2002:SPACE ODDESSY|1968|ENGLISH|54  
  
[Program exited with exit code 0]
```

```
SELECT * FROM MOVIE_CAST;
```

```
101|1002|HEROINE  
103|1001|HEROINE  
102|1003|HERO  
103|1004|GUEST  
105|1005|GUEST  
105|1002|GUEST  
104|1004|HERO
```

```
[Program exited with exit code 0]
```

```
SELECT * FROM RATING;
```

```
1001|4  
1002|2  
1003|3  
1004|5  
1005|4
```

```
[Program exited with exit code 0]
```

**i. 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');
```

```
HOW TO BE GOOD
```

```
[Program exited with exit code 0]
```

**ii. 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);
```

```
MINORITY REPORT
WAR OF WORLDS
LIFE
2002:SPACE ODDESSY

[Program exited with exit code 0]
```

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

```
SELECT DISTINCT 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 AND 2015;
```

```
HENA
RIA

[Program exited with exit code 0]
```

**iv. 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;
```

```
2002:SPACE ODDESSY|4  
HOW TO BE GOOD|3  
LIFE|2  
MINORITY REPORT|4  
WAR OF WORLDS|5  
  
[Program exited with exit code 0]
```

**v. 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'));  
SELECT * FROM RATING;
```

```
1001|5  
1002|2  
1003|3  
1004|5  
1005|4  
  
[Program exited with exit code 0]
```

