**Exercise -4**

**Consider the schema for Movie Database:**

ACTOR (Act\_id, Act\_Name, Act\_Gender)

DIRECTOR (Dir\_id, Dir\_Name, Dir\_Phone)

MOVIES (Mov\_id, Mov\_Title, Mov\_Year, Mov\_Lang, Dir\_id)

MOVIE\_CAST (Act\_id, Mov\_id, Role)

RATING (Mov\_id, Rev\_Stars)

**Write SQL queries to**

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

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

**3. List all actors who acted in a movie before 2000 and also in a movie after 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.**

**5. Update rating of all movies directed by ‘Steven Spielberg’ to 5.**

**solution**

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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).**

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‘));