1.Write a query in SQL to list all the movies with title, year, date of release, movie duration, and first and last name of the director which released before 1st january 1989, and sort the result set according to release date from highest date to lowest

Ans: SELECT movie.mov\_title, mov\_year, mov\_dt\_rel,mov\_time,dir\_fname, dir\_lname

FROM movie

JOIN movie\_direction ON movie.mov\_id = movie\_direction.mov\_id

JOIN director ON movie\_direction.dir\_id=director.dir\_id

WHERE mov\_dt\_rel <'01/01/1989' ORDER BY mov\_dt\_rel desc;

2.Write a query in SQL to find those lowest duration movies along with the year, director's name, actor's name and his/her role in that production.

Ans: SELECT mov\_title, mov\_year, dir\_fname, dir\_lname,

act\_fname, act\_lname, role

FROM movie

NATURAL JOIN movie\_direction

NATURAL JOIN movie\_cast

NATURAL JOIN director

NATURAL JOIN actor

WHERE mov\_time=(SELECT MIN(mov\_time) FROM movie);

3.Write a query in SQL to find all the years which produced a movie that received a rating of 3 or 4, and sort the result in increasing order.

Ans: select distinct mov\_year m from movie m, rating r

where m.mov\_id=r.mov\_id and

rev\_stars in(3,4) order by mov\_year;

or

select distinct mov\_year m from movie m join rating r on m.mov\_id=r.mov\_id

where rev\_stars in(3,4) order by mov\_year;

4.Write a query in SQL to return the reviewer name, movie title, and stars in an order that reviewer name will come first, then by movie title, and lastly by number of stars.

Ans: SELECT rev\_name, mov\_title, rev\_stars

FROM movie, rating, reviewer

WHERE movie.mov\_id = rating.mov\_id

AND reviewer.rev\_id = rating.rev\_id AND rev\_name IS NOT NULL

ORDER BY rev\_name, mov\_title, rev\_stars;

Or

SELECT rev\_name, mov\_title, rev\_stars FROM movie m

join rating r on m.mov\_id=r.mov\_id

join reviewer re on r.rev\_id =re.rev\_id

WHERE rev\_name IS NOT NULL

ORDER BY rev\_name, mov\_title, rev\_stars;

5. Write a query in SQL to find movie title and number of stars for each movie that has at least one rating and find the highest number of stars that movie received and sort the result by movie title.

Ans: SELECT mov\_title, MAX(rev\_stars)

FROM movie

INNER JOIN rating on movie.mov\_id=rating.mov\_id

GROUP BY mov\_title

HAVING MAX(rev\_stars)>0

ORDER BY mov\_title;

6. Write a query in SQL to find the director's first and last name together with the title of the movie(s) they directed and received the rating.

Ans: SELECT d.dir\_fname,d.dir\_lname, m.mov\_title,r.rev\_stars

FROM director d

join movie\_direction md on d.dir\_id=md.dir\_id

join movie m on md.mov\_id=m.mov\_id

join rating r on m.mov\_id=r.mov\_id

where rev\_stars is not null;

7. Write a query in SQL to find the movie title, actor first and last name, and the role for those movies where one or more actors acted in two or more movies.

Ans: SELECT mov\_title, act\_fname, act\_lname, role FROM movie

JOIN movie\_cast ON movie\_cast.mov\_id=movie.mov\_id

JOIN actor ON movie\_cast.act\_id=actor.act\_id

WHERE actor.act\_id IN (SELECT act\_id FROM movie\_cast

GROUP BY act\_id HAVING COUNT(\*)>=2);

8.Write a query in SQL to find the first and last name of a director and the movie he or she directed, and the actress appeared which first name was Claire and last name was Danes along with her role in that movie.

SELECT dir\_fname, dir\_lname, mov\_title, act\_fname, act\_lname, role

FROM actor a

join movie\_cast mc on a.act\_id=mc.act\_id

join movie\_direction md on mc.mov\_id=md.mov\_id

join director d on md.dir\_id=d.dir\_id

join movie m on m.mov\_id=md.mov\_id

WHERE act\_fname='Claire' AND act\_lname='Danes';

9.Write a query in SQL to find the cast list for the movie Chinatown.

Ans: SELECT a.act\_fname, a.act\_lname

FROM movie\_cast mc,actor a where mc.act\_id in

(select act\_id from actor where mov\_id in

(select mov\_id from movie where mov\_title = 'Chinatown'));

Or

SELECT a.act\_fname, a.act\_lname

FROM movie\_cast c

JOIN actor a ON c.act\_id = a.act\_id

Where mov\_id = (SELECT mov\_idFROM movie

Where mov\_title = 'Chinatown');

10.Write a query in SQL to find the highest-rated Mystery movie, and report the title, year, and rating

11.Write a query in SQL to generate a report which shows the year when most of the Mystery movies produces, and number of movies and their average rating.