**Department of Computer Engineering**

**University of Peradeniya CO226-Database Systems**

Lab Sheet Number : 06

Topic : Writing SQL Queries - Part II

Lab Date : 05th January 2022 from 3:00 PM to 5:00 PM

Due Date : 24th January 2022 before 11:55 PM

NAME- VINDULA K.P.A

E NUM-E/18/375

QUERIES

1.

A. SELECT \*

-> FROM MOVIE

-> WHERE MOVIE.Director IN (

-> SELECT REVIEWER.ReviewerName

-> FROM REVIEWER);

B. SELECT \*

-> FROM MOVIE

-> WHERE MOVIE.Director NOT IN (

-> SELECT REVIEWER.ReviewerName

-> FROM REVIEWER);

2

A. SELECT \*

-> FROM RATING

-> WHERE RATING.ReviewerID=(

-> SELECT REVIEWER.ReviewerID

-> FROM REVIEWER

-> WHERE REVIEWER.ReviewerName='Sarah Martinez');

B. SELECT \*

-> FROM RATING

-> WHERE RATING.ReviewerID NOT IN (

-> SELECT REVIEWER.ReviewerID

-> FROM REVIEWER

-> WHERE REVIEWER.ReviewerName='Sarah Martinez');

3.

A. SELECT DISTINCT RATING.MovieID

-> FROM RATING

-> WHERE RATING.Stars< ANY (

-> SELECT RATING.Stars

-> FROM RATING

-> WHERE RATING.MovieID=103);

B. SELECT DISTINCT RATING.MovieID

-> FROM RATING

-> WHERE RATING.Stars<= ANY (

-> SELECT RATING.Stars

-> FROM RATING

-> WHERE RATING.MovieID=103);

C. SELECT DISTINCT RATING.MovieID

-> FROM RATING

-> WHERE RATING.Stars IN (

-> SELECT RATING.Stars

-> FROM RATING

-> WHERE RATING.MovieID=103);

D. SELECT DISTINCT RATING.MovieID

-> FROM RATING

-> WHERE RATING.Stars > ANY (

-> SELECT RATING.Stars

-> FROM RATING

-> WHERE RATING.MovieID=103);

E. SELECT DISTINCT RATING.MovieID

-> FROM RATING

-> WHERE RATING.Stars >= ANY (

-> SELECT RATING.Stars

-> FROM RATING

-> WHERE RATING.MovieID=103);

F. SELECT DISTINCT RATING.MovieID

-> FROM RATING

-> WHERE RATING.Stars NOT IN (

-> SELECT RATING.Stars

-> FROM RATING

-> WHERE RATING.MovieID=103);

4. SELECT REVIEWER.ReviewerID FROM REVIEWER,RATING WHERE REVIEWER.ReviewerID = RATING.ReviewerID and MovieID=(

-> SELECT DISTINCT MovieID FROM RATING WHERE RatingDate='2011-01-12') AND Stars=(

-> SELECT DISTINCT Stars FROM RATING WHERE RatingDate='2011-01-12');

5.

A. SELECT DISTINCT MOVIE.Year

-> FROM MOVIE,RATING

-> WHERE MOVIE.MovieID=RATING.MovieID AND (RATING.Stars=4 OR RATING.Stars=5)

-> ORDER BY Year ASC;

B. SELECT DISTINCT MOVIE.Year

-> FROM MOVIE,RATING

-> WHERE MOVIE.MovieID=RATING.MovieID AND RATING.Stars IN (

-> SELECT RATING.Stars

-> FROM RATING

-> WHERE Stars=4 OR Stars=5)

-> ORDER BY Year ASC;

6.

A. SELECT MOVIE.Title

-> FROM MOVIE

-> WHERE MOVIE.MovieID NOT IN (

-> SELECT RATING.MovieID

-> FROM RATING);

B. SELECT M1.Title

-> FROM MOVIE M1

-> WHERE 0=(

-> SELECT COUNT(MovieID)

-> FROM RATING R1

-> WHERE M1.MovieID=R1.MovieID);

7.

A. SELECT REVIEWER.ReviewerName

-> FROM REVIEWER,RATING

-> WHERE REVIEWER.ReviewerID=RATING.ReviewerID AND RATING.RatingDate IS NULL;

B. SELECT ReviewerName

-> FROM REVIEWER

-> WHERE ReviewerID IN (

-> SELECT ReviewerID

-> FROM RATING

-> WHERE RatingDate IS NULL);

C. SELECT R1.ReviewerName

-> FROM REVIEWER R1

-> WHERE R1.ReviewerID=(

-> SELECT DISTINCT RA.ReviewerID

-> FROM RATING RA

-> WHERE RA.ReviewerID=R1.ReviewerID AND RA.RatingDate IS NULL);

8.

A. SELECT MOVIE.Title,MAX(Stars)

-> FROM MOVIE,RATING

-> WHERE MOVIE.MovieID=RATING.MovieID AND RATING.Stars IS NOT NULL

-> GROUP BY RATING.MovieID

-> ORDER BY Title;

B. SELECT MOVIE.Title,MIN(Stars)

-> FROM MOVIE,RATING

-> WHERE MOVIE.MovieID=RATING.MovieID AND RATING.Stars IS NOT NULL

-> GROUP BY RATING.MovieID

-> ORDER BY Title;

C. SELECT MOVIE.Title,AVG(Stars)

-> FROM MOVIE,RATING

-> WHERE MOVIE.MovieID=RATING.MovieID AND RATING.Stars IS NOT NULL

-> GROUP BY RATING.MovieID

-> ORDER BY Title;

D. SELECT MOVIE.Title,SUM(Stars)

-> FROM MOVIE,RATING

-> WHERE MOVIE.MovieID=RATING.MovieID AND RATING.Stars IS NOT NULL

-> GROUP BY RATING.MovieID

-> ORDER BY Title;

E. SELECT MOVIE.Title,COUNT(Stars)

-> FROM MOVIE,RATING

-> WHERE MOVIE.MovieID=RATING.MovieID AND RATING.Stars IS NOT NULL

-> GROUP BY RATING.MovieID

-> ORDER BY Title;

9.

A. SELECT REVIEWER.ReviewerName

-> FROM REVIEWER,RATING

-> WHERE REVIEWER.ReviewerID=RATING.ReviewerID

-> GROUP BY REVIEWER.ReviewerID

-> HAVING COUNT(Stars)>=3;

B. SELECT ReviewerName

-> FROM REVIEWER

-> WHERE ReviewerID IN (

-> SELECT ReviewerID

-> FROM RATING

-> GROUP BY ReviewerID

-> HAVING COUNT(ReviewerID)>=3);

C. SELECT RE.ReviewerName

-> FROM REVIEWER RE

-> WHERE (SELECT COUNT(RA.ReviewerID) FROM RATING RA WHERE RE.ReviewerID=RA.ReviewerID)>=3;

10. SELECT MOVIE.Title,AVG(RATING.Stars)

-> FROM MOVIE,RATING

-> WHERE MOVIE.MovieID=RATING.MovieID

-> GROUP BY MOVIE.Title

-> ORDER BY AVG(RATING.Stars) DESC,MOVIE.Title ASC;

11. DELETE FROM RATING

-> WHERE MovieID IN (

-> SELECT MovieID

-> FROM MOVIE

-> WHERE Year<1970 OR Year>2000);

12. DELETE FROM RATING

-> WHERE RatingDate IS NULL;

13. INSERT INTO RATING

-> VALUES(207,101,5,NULL),

-> (207,102,5,NULL),

-> (207,103,5,NULL),

-> (207,104,5,NULL),

-> (207,105,5,NULL),

-> (207,106,5,NULL),

-> (207,107,5,NULL),

-> (207,108,5,NULL);

14. UPDATE MOVIE

-> SET Year=Year+25

-> WHERE MOVIE.MovieID IN (

-> SELECT MovieID

-> FROM RATING

-> GROUP BY MovieID

-> HAVING AVG(Stars)>=4);

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