

E/17/219
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CO226
LAB06

Writing SQL Queries - Part II

1).A).

```
SELECT *  
FROM Movie  
WHERE Director =  
(  
SELECT Distinct Director  
FROM Movie,Reviewer  
WHERE Director=ReviewerName  
);
```

	MovieId	Title	ReleasedYear	Director
▶	105	Titanic	1997	James Cameron
	107	Avatar	2009	James Cameron
*	NULL	NULL	NULL	NULL

B).

```
SELECT *  
FROM Movie  
WHERE Director !=  
(  
SELECT Distinct Director  
FROM Movie,Reviewer  
WHERE Director=ReviewerName  
);
```

	MovieId	Title	ReleasedYear	Director
▶	101	Gone with the Wind	1939	Victor Fleming
	102	Star Wars	1977	George Lucas
	103	The Sound of Music	1965	Robert Wise
	104	E.T.	1982	Steven Spielberg
	108	Raiders of the Lost Ark	1981	Steven Spielberg
*	NULL	NULL	NULL	NULL

2)A).
 SELECT *
 FROM Rating
 WHERE ReviewerId =
 (
 SELECT ReviewerId
 FROM Reviewer
 WHERE ReviewerName='Sarah Martinez'
);

	ReviewerId	MovieId	Stars	RatingDate
▶	201	101	2	2011-01-22
	201	101	4	2011-01-27
*	NULL	NULL	NULL	NULL

B).
 SELECT *
 FROM Rating
 WHERE ReviewerId !=
 (
 SELECT ReviewerId
 FROM Reviewer
 WHERE ReviewerName='Sarah Martinez'
);

	ReviewerId	MovieId	Stars	RatingDate
▶	202	106	4	NULL
	203	103	2	2011-01-20
	203	108	2	2011-01-30
	203	108	4	2011-01-12
	204	101	3	2011-01-09
	205	103	3	2011-01-27
	205	104	2	2011-01-22
	205	108	4	NULL
	206	106	5	2011-01-19
	206	107	3	2011-01-15
	207	107	5	2011-01-20
	208	104	3	2011-01-02
*	NULL	NULL	NULL	NULL

3)A).

```
SELECT MovieID
FROM Rating
WHERE Stars < ANY
(
  SELECT Stars
  FROM Rating
  WHERE MovieID='103'
);
```

	MovieID
▶	101
	103
	104
	108

B).

```
SELECT MovieID
FROM Rating
WHERE Stars <= ANY
(
  SELECT Stars
  FROM Rating
  WHERE MovieID='103'
);
```

	MovieID
▶	101
	101
	103
	103
	104
	104
	107
	108

C).
 SELECT MovieID
 FROM Rating
 WHERE Stars = ANY
 (
 SELECT Stars
 FROM Rating
 WHERE MovieID='103'
);

	MovieID
▶	101
	101
	103
	103
	104
	104
	107
	108

D).
 SELECT MovieID
 FROM Rating
 WHERE Stars > ANY
 (
 SELECT Stars
 FROM Rating
 WHERE MovieID='103'
);

	MovieID
▶	101
	101
	103
	104
	106
	106
	107
	107
	108
	108

E).
SELECT MovieID
FROM Rating
WHERE Stars >= ANY
(
SELECT distinct Stars
FROM Rating
WHERE MovieID='103'
);

	MovieID
▶	101
	101
	101
	103
	103
	104
	104
	106
	106
	107
	107
	108
	108
	108

F).
 SELECT MovieID
 FROM Rating
 WHERE Stars != ANY
 (
 SELECT Stars
 FROM Rating
 WHERE MovieId='103'
);

	MovieID
▶	101
	101
	101
	103
	103
	104
	104
	106
	106
	107
	107
	108
	108
	108

4).
 SELECT ReviewerId
 FROM Rating
 WHERE (MovieId,Stars)=
 (
 SELECT MovieId,Stars
 FROM Rating
 WHERE RatingDate='2011-01-12'
);

	ReviewerId
▶	203
	205

5).A).

```
SELECT YEAR(RatingDate)
FROM Rating
WHERE Stars=4 OR Stars=5
ORDER BY YEAR(RatingDate);
```

YEAR(RatingDate)
HULL
HULL
2011
2011
2011
2011

B).

```
SELECT YEAR(RatingDate)
FROM Rating
WHERE RatingDate=ANY(
SELECT DISTINCT RatingDate
FROM Rating
WHERE Stars=4 OR Stars=5
);
```

YEAR(RatingDate)
2011
2011
2011
2011
2011
2011

6).A).

```
SELECT Title
FROM Movie
WHERE MovieID !=ALL
(
SELECT MovieId
FROM Rating
);
```

	Title
▶	Star Wars
	Titanic

B).

```
SELECT Title
FROM Movie,Rating
WHERE Movie.MovieId=Rating.MovieId
AND Movie.MovieId != ALL
(
SELECT MovieId
FROM Rating
)
;
```


7)A).

```
SELECT ReviewerName
FROM Reviewer,Rating
WHERE Reviewer.ReviewerId =Rating.ReviewerId
AND RatingDate IS NULL;
```

	ReviewerName
▶	Daniel Lewis
	Chris Jackson

B).

```
SELECT ReviewerName
FROM Reviewer
WHERE ReviewerId = ANY
(
SELECT ReviewerId
FROM Rating
WHERE RatingDate IS NULL
);
```

	ReviewerName
▶	Daniel Lewis
	Chris Jackson

C).

```
SELECT DISTINCT ReviewerName
FROM Reviewer,Rating
WHERE Rating.ReviewerId = Reviewer.ReviewerId
AND Rating.ReviewerID=ANY(
SELECT ReviewerId
FROM Rating
WHERE RatingDate IS NULL
);
```

	ReviewerName
▶	Daniel Lewis
	Chris Jackson

8)A).

```
SELECT Title,MAX(Stars)
FROM Movie,Rating
WHERE Movie.MovieId=Rating.MovieId
GROUP BY Rating.MovieId
ORDER BY Title;
```

	Title	MAX(Stars)
▶	Avatar	5
	E.T.	3
	Gone with the Wind	4
	Raiders of the Lost Ark	4
	Snow White	5
	The Sound of Music	3

B).

```
SELECT Title,MIN(Stars)
FROM Movie,Rating
WHERE Movie.MovieId=Rating.MovieId
GROUP BY Rating.MovieId
ORDER BY Title;
```

	Title	MIN(Stars)
▶	Avatar	3
	E.T.	2
	Gone with the Wind	2
	Raiders of the Lost Ark	2
	Snow White	4
	The Sound of Music	2

C).

```
SELECT Title,AVG(Stars)
FROM Movie,Rating
WHERE Movie.MovieId=Rating.MovieId
GROUP BY Rating.MovieId
ORDER BY Title;
```

	Title	AVG(Stars)
▶	Avatar	4.0000
	E.T.	2.5000
	Gone with the Wind	3.0000
	Raiders of the Lost Ark	3.3333
	Snow White	4.5000
	The Sound of Music	2.5000

D).

```
SELECT Title,SUM(Stars)
FROM Movie,Rating
WHERE Movie.MoviId=Rating.MoviId
GROUP BY Rating.MoviId
ORDER BY Title;
```

	Title	SUM(Stars)
▶	Avatar	8
	E.T.	5
	Gone with the Wind	9
	Raiders of the Lost Ark	10
	Snow White	9
	The Sound of Music	5

E).

```
SELECT Title,COUNT(Stars)
FROM Movie,Rating
WHERE Movie.MoviId=Rating.MoviId
GROUP BY Rating.MoviId
ORDER BY Title;
```

	Title	COUNT(Stars)
▶	Avatar	2
	E.T.	2
	Gone with the Wind	3
	Raiders of the Lost Ark	3
	Snow White	2
	The Sound of Music	2

9)A).

```
SELECT ReviewerName
FROM Rating,Reviewer
WHERE Rating.ReviewerId=Reviewer.ReviewerId
GROUP BY Rating.ReviewerId
HAVING COUNT(Rating.ReviewerId)>=3 ;
```

	ReviewerName
▶	Brittany Harris
	Chris Jackson

B).

```
SELECT ReviewerName
FROM Reviewer
WHERE ReviewerId IN
(
SELECT ReviewerId
FROM Rating
GROUP BY ReviewerId
HAVING COUNT(ReviewerId)>=3
```

);

	ReviewerName
▶	Brittany Harris
	Chris Jackson

C).

```
SELECT DISTINCT ReviewerName
FROM Rating,Reviewer
WHERE Rating.ReviewerId=Reviewer.ReviewerId
AND Rating.ReviewerId IN
(
SELECT ReviewerId
FROM Rating
GROUP BY ReviewerId
HAVING COUNT(Rating.ReviewerId)>=3
);
```

	ReviewerName
▶	Brittany Harris
	Chris Jackson

10).
 SELECT Title,AVG(Stars)
 FROM Movie,Rating
 WHERE Movie.MovieId=Rating.MovieId
 GROUP BY Rating.MovieId
 ORDER BY AVG(stars) DESC, Title ASC;

	Title	AVG(Stars)
▶	Snow White	4.5000
	Avatar	4.0000
	Raiders of the Lost Ark	3.3333
	Gone with the Wind	3.0000
	E.T.	2.5000
	The Sound of Music	2.5000

11).
 DELETE
 FROM Movie
 WHERE ReleasedYear>2000
 OR ReleasedYear<1980;

12).
 DELETE
 FROM Rating
 WHERE RatingDate IS NULL;

13).
 INSERT INTO Rating
 SELECT ReviewerId,MovieId,5,NULL
 FROM Movie,Reviewer WHERE MovieId!=107 AND ReviewerId=
 (
 SELECT ReviewerId
 FROM Reviewer
 WHERE ReviewerName='James Cameron'
);

14).
 UPDATE Movie
 SET ReleasedYear=ReleasedYear+25
 WHERE MovieId=ANY
 (
 SELECT MovieId
 FROM Rating
 WHERE Stars>=4
);