CO226 LAB-06

1.A

```
mysql> use E18128Lab05
Database changed
mysql> select * from MOVIE where MOVIE.Director in (select ReveiewerName from REVIE
WER);
ERROR 1054 (42S22): Unknown column 'ReveiewerName' in 'field list'
mysql> select * from MOVIE where MOVIE.Director in (select ReviewerName from REVIEW
ER);
+----------+---------+------+---------------+
| Movie_ID | Title   | Year | Director      |
+----------+---------+------+---------------+
|      105 | Titanic | 1997 | James Cameron |
|      107 | Avatar  | 2009 | James Cameron |
+----------+---------+------+---------------+
2 rows in set (0.01 sec)
```

1.B

```
mysql> select * from MOVIE where MOVIE.Director not in (select ReviewerName from RE
VIEWER);
+----------+-----------------------+------+------------------+
| Movie_ID | Title                 | Year | Director         |
+----------+-----------------------+------+------------------+
|      101 | Gone with the wind    | 1939 | Victor Fleming   |
|      102 | Star Wars             | 1972 | George Lucas     |
|      103 | The Sound of Music    | 1965 | Robert Wise      |
|      104 | E.T                   | 1982 | Steven Spielberg |
|      108 | Raiders of the Lost Arc | 1981 | Steven Spielberg |
+----------+-----------------------+------+------------------+
5 rows in set (0.01 sec)
```

2.A

```
mysql> select * from RATING where RATING.Reviewer_ID in (select Reviewer_ID from REVIEWER where ReviewerName='Sarah Mart
inez');
+-------------+----------+------+------------+
| Reviewer_ID | Movie_ID | Star | RatingDate |
+-------------+----------+------+------------+
|         201 |      101 |    2 | 2011-01-22 |
|         201 |      101 |    4 | 2011-01-27 |
+-------------+----------+------+------------+
2 rows in set (0.00 sec)

mysql>
```

2.B

```
mysql> select * from RATING where RATING.Reviewer_ID in (select Reviewer_ID from REVIEWER where not ReviewerName='Sarah
Martinez');
+-------------+----------+------+-------------+
| Reviewer_ID | Movie_ID | Star | RatingDate  |
+-------------+----------+------+-------------+
|         202 |      106 |    4 | NULL        |
|         203 |      103 |    2 | 2011-01-20  |
|         203 |      108 |    4 | 2011-01-12  |
|         203 |      108 |    2 | 2011-01-30  |
|         204 |      101 |    3 | 2011-01-09  |
|         205 |      103 |    3 | 2011-01-27  |
|         205 |      104 |    2 | 2011-01-22  |
|         205 |      108 |    4 | NULL        |
|         206 |      107 |    3 | 2011-01-15  |
|         206 |      106 |    5 | 2011-01-19  |
|         207 |      107 |    5 | 2011-01-20  |
|         208 |      104 |    3 | 2011-01-02  |
+-------------+----------+------+-------------+
12 rows in set (0.00 sec)
```

3.A

```
mysql> select distinct Movie_ID from RATING where star<any (select star from RATING where Movie_ID=103);
+----------+
| Movie_ID |
+----------+
|      101 |
|      103 |
|      104 |
|      108 |
+----------+
4 rows in set (0.14 sec)
```

3.B

```
mysql> select distinct Movie_ID from RATING where star<=any (select star from RATING where Movie_ID=103);
+----------+
| Movie_ID |
+----------+
|      101 |
|      103 |
|      104 |
|      107 |
|      108 |
+----------+
5 rows in set (0.00 sec)
```

3.C

```
mysql> select distinct Movie_ID from RATING where star=any (select star from RATING where Movie_ID=103);
+----------+
| Movie_ID |
+----------+
|      101 |
|      103 |
|      108 |
|      104 |
|      107 |
+----------+
5 rows in set (0.01 sec)
```

3.D

```
mysql> select distinct Movie_ID from RATING where star>any (select star from RATING where Movie_ID=103);
+----------+
| Movie_ID |
+----------+
|      101 |
|      103 |
|      104 |
|      106 |
|      107 |
|      108 |
+----------+
6 rows in set (0.00 sec)
```

3.E

```
mysql> select distinct Movie_ID from RATING where star>=any (select star from RATING where Movie_ID=103);
+----------+
| Movie_ID |
+----------+
|      101 |
|      103 |
|      104 |
|      106 |
|      107 |
|      108 |
+----------+
6 rows in set (0.00 sec)
```

3.F

```
mysql> select distinct Movie_ID from RATING where star!=any (select star from RATING where Movie_ID=103);
+----------+
| Movie_ID |
+----------+
|      101 |
|      103 |
|      104 |
|      106 |
|      107 |
|      108 |
+----------+
6 rows in set (0.00 sec)
```

4.

```
mysql> select REVIEWER_ID from RATING where Movie_ID in (select Movie_ID from RATING where RatingDate='2011-01-12') AND star in (select Star from RATING where RatingDate='2011-01-12');
+-------------+
| REVIEWER_ID |
+-------------+
|         203 |
|         205 |
+-------------+
2 rows in set (0.08 sec)
```

5.A.

```
mysql> select DESCENDING Year from MOVIE,RATING where MOVIE.Movie_ID=RATING.MOVIE_ID AND (RATING.Star>=4);
ERROR 1054 (42S22): Unknown column 'DESCENDING' in 'field list'
mysql> select Year from MOVIE,RATING where MOVIE.Movie_ID=RATING.MOVIE_ID AND (RATING.Star>=4) order by Year;
+------+
| Year |
+------+
| 1937 |
| 1937 |
| 1939 |
| 1981 |
| 1981 |
| 2009 |
+------+
6 rows in set (0.00 sec)
```

5.B

```
mysql> select distinct Year from MOVIE,RATING where MOVIE.Movie_ID=RATING.MOVIE_ID AND (RATING.Star>=4) order by Year;
+------+
| Year |
+------+
| 1937 |
| 1939 |
| 1981 |
| 2009 |
+------+
4 rows in set (0.01 sec)
```

6.A

```
mysql> select distinct  Title from MOVIE where MOVIE.Movie_ID not in (select Movie_ID from RATING);
+-----------+
| Title     |
+-----------+
| Star Wars |
| Titanic   |
+-----------+
2 rows in set (0.02 sec)
```

6.B

```
mysql> select distinct  Title from MOVIE where MOVIE.Movie_ID not in (select Movie_ID from RATING where MOVIE.Movie_ID=RATING.Movie_ID);
+-----------+
| Title     |
+-----------+
| Star Wars |
| Titanic   |
+-----------+
2 rows in set (0.00 sec)
```

7.A

```
mysql> select ReviewerName from REVIEWER,RATING where REVIEWER.Reviewer_ID=RATING.Reviewer_ID AND RatingDate is NULL;
+---------------+
| ReviewerName  |
+---------------+
| Daniel Lewis  |
| Chris Jackson |
+---------------+
2 rows in set (0.03 sec)
```

7.B

```
mysql> select ReviewerName from REVIEWER where Reviewer_ID in (select Reviewer_ID from RATING where RatingDate is NULL);
+---------------+
| ReviewerName  |
+---------------+
| Daniel Lewis  |
| Chris Jackson |
+---------------+
2 rows in set (0.00 sec)
```

7.C

```
mysql> SELECT ReviewerName FROM  REVIEWER WHERE ReviewerID IN (SELECT ReviewerID FROM RATING WHERE REVIEWER.ReviewerID=RATING.ReviewerID AND  RatingDate IS NULL);
+---------------+
| ReviewerName  |
+---------------+
| Daniel Lewis  |
| Chris Jackson |
+---------------+
2 rows in set (0.00 sec)
```

8.A

```
mysql> select Title,MAX(Star) from MOVIE, RATING where MOVIE.Movie_ID=RATING.Movie_ID Group by MOVIE.Movie_Id Order by Title;
+------------------------+-----------+
| Title                  | MAX(Star) |
+------------------------+-----------+
| Avatar                 |         5 |
| E.T                    |         3 |
| Gone with the wind     |         4 |
| Raiders of the Lost Arc|         4 |
| Snow White             |         5 |
| The Sound of Music     |         3 |
+------------------------+-----------+
6 rows in set (0.00 sec)
```

8.B

```
mysql> select Title,MIN(Star) from MOVIE, RATING where MOVIE.Movie_ID=RATING.Movie_ID Group by MOVIE.Movie_Id Order by Title;
+------------------------+-----------+
| Title                  | MIN(Star) |
+------------------------+-----------+
| Avatar                 |         3 |
| E.T                    |         2 |
| Gone with the wind     |         2 |
| Raiders of the Lost Arc|         2 |
| Snow White             |         4 |
| The Sound of Music     |         2 |
+------------------------+-----------+
6 rows in set (0.00 sec)
```

8.C

```
mysql> select Title,AVG(Star) from MOVIE, RATING where MOVIE.Movie_ID=RATING.Movie_ID Group by MOVIE.Movie_Id Order by Title;
+------------------------+-----------+
| Title                  | AVG(Star) |
+------------------------+-----------+
| Avatar                 |    4.0000 |
| E.T                    |    2.5000 |
| Gone with the wind     |    3.0000 |
| Raiders of the Lost Arc|    3.3333 |
| Snow White             |    4.5000 |
| The Sound of Music     |    2.5000 |
+------------------------+-----------+
6 rows in set (0.00 sec)
```

8.D

```
mysql> select Title,SUM(Star) from MOVIE, RATING where MOVIE.Movie_ID=RATING.Movie_ID Group by MOVIE.Movie_Id Order by Title;
+------------------------+-----------+
| Title                  | SUM(Star) |
+------------------------+-----------+
| Avatar                 |         8 |
| E.T                    |         5 |
| Gone with the wind     |         9 |
| Raiders of the Lost Arc|        10 |
| Snow White             |         9 |
| The Sound of Music     |         5 |
+------------------------+-----------+
6 rows in set (0.00 sec)
```

8.E

```
mysql> select Title,COUNT(Star) from MOVIE, RATING where MOVIE.Movie_ID=RATING.Movie_ID Group by MOVIE.Movie_Id Order by Title;
+------------------------+-------------+
| Title                  | COUNT(Star) |
+------------------------+-------------+
| Avatar                 |           2 |
| E.T                    |           2 |
| Gone with the wind     |           3 |
| Raiders of the Lost Arc|           3 |
| Snow White             |           2 |
| The Sound of Music     |           2 |
+------------------------+-------------+
6 rows in set (0.00 sec)
```

9.A

```
mysql> Select ReviewerName from RATING,REVIEWER where REVIEWER.Reviewer_ID=RATING.Reviewer_ID Group by RATING.Reviewer_ID HAVING COUNT(Star)>=3;
+-----------------+
| ReviewerName    |
+-----------------+
| Brittany Harris |
| Chris Jackson   |
+-----------------+
2 rows in set (0.00 sec)
```

9.B

```
mysql> select ReviewerName from REVIEWER where Reviewer_ID in (select Reviewer_ID from RATING group by RATING.Reviewer_ID having COUNT(Star)>=3);
+-----------------+
| ReviewerName    |
+-----------------+
| Brittany Harris |
| Chris Jackson   |
+-----------------+
2 rows in set (0.00 sec)
```

9.C

```
mysql> select ReviewerName from REVIEWER WHERE Reviewer_ID IN (SELECT Reviewer_ID FROM RATING WHERE REVIEWER.Reviewer_ID=RATING.Reviewer_ID GROUP BY RATING.Reviewer_ID
HAVING COUNT(Star)>=3);
+-----------------+
| ReviewerName    |
+-----------------+
| Brittany Harris |
| Chris Jackson   |
+-----------------+
2 rows in set (0.02 sec)

mysql>
```

10.

```
mysql>  SELECT Title,AVG(Star) FROM MOVIE,RATING WHERE MOVIE.Movie_ID = RATING.Movie_ID GROUP BY movie.Movie_ID
    -> ORDER BY AVG(Star) DESC, Title;
+------------------------+-----------+
| Title                  | AVG(Star) |
+------------------------+-----------+
| Snow White             |    4.5000 |
| Avatar                 |    4.0000 |
| Raiders of the Lost Arc|    3.3333 |
| Gone with the wind     |    3.0000 |
| E.T                    |    2.5000 |
| The Sound of Music     |    2.5000 |
+------------------------+-----------+
6 rows in set (0.05 sec)

mysql>
```

11.

```
mysql> DELETE FROM RATING
    -> WHERE Movie_ID IN(
    ->  SELECT Movie_ID FROM MOVIE
    -> WHERE Year<1970 OR Year>2000);
Query OK, 9 rows affected (0.00 sec)

mysql> select * FROM RATING;
+-------------+----------+------+------------+
| Reviewer_ID | Movie_ID | Star | RatingDate |
+-------------+----------+------+------------+
|         203 |      108 |    4 | 2011-01-12 |
|         203 |      108 |    2 | 2011-01-30 |
|         205 |      104 |    2 | 2011-01-22 |
|         205 |      108 |    4 | NULL       |
|         208 |      104 |    3 | 2011-01-02 |
+-------------+----------+------+------------+
5 rows in set (0.00 sec)
```

12.

```
mysql> DELETE FROM RATING where RatingDate IS NULL;
Query OK, 1 row affected (0.01 sec)

mysql> select * FROM RATING;
+-------------+----------+------+------------+
| Reviewer_ID | Movie_ID | Star | RatingDate |
+-------------+----------+------+------------+
|         203 |      108 |    4 | 2011-01-12 |
|         203 |      108 |    2 | 2011-01-30 |
|         205 |      104 |    2 | 2011-01-22 |
|         208 |      104 |    3 | 2011-01-02 |
+-------------+----------+------+------------+
4 rows in set (0.00 sec)

mysql>
```

13.

```
mysql> INSERT INTO RATING SELECT(SELECT Reviewer_ID FROM REVIEWER WHERE ReviewerName = "James Cameron"), Movie_ID,
    -> 5,NULL FROM movie;
Query OK, 8 rows affected (0.01 sec)
Records: 8  Duplicates: 0  Warnings: 0

mysql> select * FROM RATING;
+-------------+----------+------+------------+
| Reviewer_ID | Movie_ID | Star | RatingDate |
+-------------+----------+------+------------+
|         203 |      108 |    4 | 2011-01-12 |
|         203 |      108 |    2 | 2011-01-30 |
|         205 |      104 |    2 | 2011-01-22 |
|         208 |      104 |    3 | 2011-01-02 |
|         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       |
+-------------+----------+------+------------+
12 rows in set (0.00 sec)

mysql>
```

14.

```
mysql> UPDATE MOVIE SET Year = Year+25 WHERE Movie_ID IN(SELECT Movie_ID FROM RATING  GROUP BY Movie_ID HAVING AVG(Star)>=4);
Query OK, 6 rows affected (0.01 sec)
Rows matched: 6  Changed: 6  Warnings: 0

mysql> select * FROM MOVIE;
+----------+-----------------------+------+------------------+
| Movie_ID | Title                 | Year | Director         |
+----------+-----------------------+------+------------------+
|      101 | Gone with the wind    | 1964 | Victor Fleming   |
|      102 | Star Wars             | 2002 | George Lucas     |
|      103 | The Sound of Music    | 1990 | Robert Wise      |
|      104 | E.T                   | 1982 | Steven Spielberg |
|      105 | Titanic               | 2022 | James Cameron    |
|      106 | Snow White            | 1962 | NULL             |
|      107 | Avatar                | 2034 | James Cameron    |
|      108 | Raiders of the Lost Arc | 1981 | Steven Spielberg |
+----------+-----------------------+------+------------------+
8 rows in set (0.00 sec)

mysql>
```