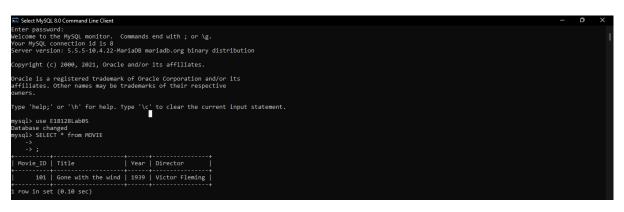
Task1





```
mysql> CREATE TABLE RATING(Reviewer_ID int, Movie_ID int, Star int, RatingDate date,FOREIGN KEY(Movie_ID) REFERENCE S REVIEWER (Reviewer_ID);

S REVIEWER (Reviewer_ID);

S REVIEWER (Reviewer_ID);

Mysql> CREATE TABLE REVIEWER(Reviewer_ID int, ReviewerName VARCHAR(100),PRIMARY KEY(Reviewer_ID));

Query OK, 0 rows affected (0.04 sec)

Mysql> CREATE TABLE RATING(Reviewer_ID int, ReviewerName VARCHAR(100),PRIMARY KEY(Reviewer_ID));

S REVIEWER (Reviewer_ID);

ERROR 1004 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near '' at line 1

Mysql> CREATE TABLE RATING(Reviewer_ID int, Movie_ID int, Star int, RatingDate date,FOREIGN KEY(Movie_ID) REFERENCES MOVIE (Movie_ID),FOREIGN KEY(Reviewer_ID);

ERROR 1004 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near '' at line 1

Mysql> CREATE TABLE RATING(Reviewer_ID) int, Movie_ID int, Star int, RatingDate date,FOREIGN KEY(Movie_ID) REFERENCES MOVIE (Movie_ID),FOREIGN KEY(Reviewer_ID) REFERENCE

S REVIEWER (Reviewer_ID);

S REVIEWER (Reviewer_ID);

QUERY OK, 0 rows affected (0.04 sec)
```

mysql> INSERT INTO REVIEWER VALUES(201, 'Sarah Martinez'),(202, 'Daniel Lewis'),(203, 'Brittany Harris'),(204, 'Mike Anderson'),(205, 'Chris Jackson'),(206, 'Elizabeth Thomas '),(207, 'James Cameron'),(208, 'Ashley White'); Query OX, 8 rows affected (0.00 sec. (201), 'Sarah Martinez'), (202, 'Daniel Lewis'),(203, 'Brittany Harris'),(204, 'Mike Anderson'),(205, 'Chris Jackson'),(206, 'Elizabeth Thomas Query OX, 8 rows affected (0.00 sec. (201), 'Sarah Martinez'),(202, 'Daniel Lewis'),(203, 'Brittany Harris'),(204, 'Mike Anderson'),(205, 'Chris Jackson'),(206, 'Elizabeth Thomas

mysql> INSERT INTO RATING VALUES(201,101,2,'2011-01-22'),(201,101,4,'2011-01-27'),(202,106,4,NULL),(203,103,2,'2011-01-20'),(203,108,4,'2011-01-12'),(203,108,2,'2011-01-20'),(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,'2011-01-22'),(208,104,3,'2011-01-15'),(206,107,3,'2011-01-15'),(206,106,5,'2011-01-19'),(207,107,5,'2011-01-22'),(205,108,4,NULL),(206,107,3,'2011-01-15'),(206,106,5,'2011-01-19'),(207,107,5,'2011-01-22'),(205,108,4,NULL),(206,107,3,'2011-01-15'),(206,106,5,'2011-01-12'),(207,107,5,'2011-01-22'),(205,108,4,NULL),(206,107,3,'2011-01-15'),(206,106,5,'2011-01-12'),(207,107,5,'2011-01-22'),(205,108,4,NULL),(206,107,3,'2011-01-15'),(206,106,5,'2011-01-12'),(207,107,5,'2011-01-22'),(205,108,4,NULL),(206,107,3,'2011-01-15'),(206,106,5,'2011-01-12'),(207,107,5,'2011-01-22'),(205,108,4,NULL),(206,107,3,'2011-01-15'),(206,106,5,'2011-01-12'),(207,107,5,'2011-01-22'),(205,108,4,NULL),(206,107,3,'2011-01-15'),(206,106,5,'2011-01-12'),(207,107,5,'2011-01-22'),(205,108,4,NULL),(206,107,3,'2011-01-15'),(206,106,5,'2011-01-12'),(207,107,5,'2011-01-22'),(205,108,4,NULL),(206,107,3,'2011-01-15'),(206,106,5,'2011-01-12'),(207,107,5,'2011-01-22'),(205,108,4,NULL),(206,107,3,'2011-01-15'),(206,106,5,'2011-01-12'),(207,107,5,'2011-01-22'),(205,108,4,NULL),(206,107,3,'2011-01-15'),(206,106,5,'2011-01-15'),(207,107,5,'2011-01-22'),(205,108,4,NULL),(206,107,3,'2011-01-15'),(206,108,4,NULL),(206,107,3,'2011-01-15'),(206,108,4,NULL),(206,107,3,'2011-01-15'),(206,108,4,NULL),(206,107,3,'2011-01-15'),(206,108,4,NULL),(206,108,4,NULL),(206,107,3,'2011-01-15'),(206,108,4,NULL),(206,108,

Task2

1) Find all the details about the movies presented in the populated MOVIE table.

2) Find all the details about the movies directed by 'James Cameron'.

3) Find all the details about the movies directed by 'James Cameron', on or after year 2000.

```
mysql> SELECT * FROM MOVIE where Director="James Cameron" AND Year>2000;

+-----+

| Movie_ID | Title | Year | Director |

+-----+

| 107 | Avatar | 2009 | James Cameron |

+-----+

1 row in set (0.01 sec)
```

4) Find all the stars presented in the rating table.

```
mysql> SELECT Star FROM Rating;

| Star |
| 2 |
| 4 |
| 2 |
| 4 |
| 2 |
| 3 |
| 3 |
| 3 |
| 5 |
| 5 |
| 5 |
| 5 |
| 5 |
| 7 |
| 4 | rows in set (0.00 sec)
```

5) Find the distinct stars presented in the table.

```
mysql> SELECT Distinct Star FROM Rating;

+----+
| Star |
+----+
| 2 |
| 4 |
| 3 |
| 5 |
+----+
4 rows in set (0.00 sec)
```

6) Find movie id s and each movie's director.

```
mysql> SELECT Movie_ID, Director from MOVIE;
 Movie_ID | Director
      101
            Victor Fleming
       102
            George Lucas
       103
            Robert Wise
            Steven Spielberg
      104
       105
             James Cameron
       106
            NULL
       107
             James Cameron
            Steven Spielberg
8 rows in set (0.00 sec)
```

7) Find movie id s, title s, year s of the movies directed by 'Steven Spielberg'.

8)Obtain the Cartesian product of the details presented in two tables MOVIE and RATING.

```
nysql> SELECT * FROM MOVIE,RATING where MOVIE.Movie_ID=RATING.Movie_ID;
 Movie_ID | Title
                                                                                                                                                               | Reviewer_ID | Movie_ID | Star | RatingDate |
                                                                                                                                                                                                                                                    2011-01-22
2011-01-27
2011-01-09
2011-01-20
2011-01-22
2011-01-22
2011-01-02
NULL
2011-01-19
                             Gone with the wind
Gone with the wind
Gone with the wind
The Sound of Music
The Sound of Music
                                                                                                                  Victor Fleming
Victor Fleming
Victor Fleming
               101
101
                                                                                                                                                                                                                     101
101
                                                                                                1939
1939
1965
1965
1982
1982
1937
1937
                                                                                                                 Robert Wise
Robert Wise
Steven Spielberg
Steven Spielberg
               103
103
104
                                                                                                                                                                                                                     103
103
104
                                                                                                                                                                                        203
205
                                                                                                                                                                                         205
                             E.T
E.T
Snow White
Snow White
Avatar
Avatar
Raiders of the Lost Arc
Raiders of the Lost Arc
               104
106
106
                                                                                                                                                                                                                     104
106
106
                                                                                                                                                                                         208
202
                                                                                                                  NULL
NULL
                                                                                                                                                                                         206
                                                                                                                  James Cameron
James Cameron
Steven Spielberg
Steven Spielberg
Steven Spielberg
                                                                                                                                                                                                                                                     2011-01-19
2011-01-15
2011-01-20
2011-01-12
2011-01-30
NULL
                                                                                                2009
2009
1981
1981
1981
               107
107
                                                                                                                                                                                         206
207
                                                                                                                                                                                                                     107
107
                                                                                                                                                                                         203
                                                                                                                                                                                                                     108
                                                                                                                                                                                         203
205
                                                                                                                                                                                                                     108
108
4 rows in set (0.00 sec)
```

9)Obtain the Cartesian product of the movie id and title from MOVIE table with movie id reviewer id and stars from RATING table.

10) Select movie id s of each movie with its title, reviewer id and stars received.

11) Select movie id s of each movie with its title, reviewer id and stars received, where number of stars are less than or equal to three.

12) Select movie id s of each movie with its title, reviewer id and stars received, where the number of stars is between two and four (two and four inclusive)

13) Select reviewer id s with the corresponding movie id reviewed by each reviewer

```
mysql> SELECT Reviewer_ID, Movie_ID from RATING;
 Reviewer_ID | Movie_ID |
          201
                      101
          201
                      101
          202
                      106
          203
                      103
          203
                      108
          203
                      108
          204
                      101
          205
                      103
          205
                      104
          205
                      108
          206
                      107
          206
                      106
          207
                      107
          208
                      104
14 rows in set (0.00 sec)
```

14) Select distinct tuples from the results produced by the execution of the above query (query number 14).

15) Select each movie id with its corresponding title, reviewer id, reviewer name and stars received.

16) Select each movie id with its corresponding title, reviewer id, reviewer name and stars received, where the number of stars received is equal to five.

17) Select movie title with its corresponding reviewer name and stars, where movie's rating date is missing.

18) Select all the movie director names and reviewer name s into one column. Do not include null values.



- 19) Select the details about the reviewers who have a last name called 'Martinez'.
- 20) Select the details about the ratings which have been rated before the 10th day of the month. Use substring comparison.

21. Write the above query (query number 20) without using substring comparison.

```
mysql> SELECT * FROM RATING WHERE MOD(RatingDate,9,2)<10 AND RatingDate IS NOT NULL;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near '2)<10 AND R atingDate IS NOT NULL' at line 1
mysql> SELECT * FROM RATING WHERE MOD(RatingDate,50)<10 AND RatingDate IS NOT NULL;

| Reviewer_ID | Movie_ID | Star | RatingDate | |
| 204 | 101 | 3 | 2011-01-09 |
| 208 | 104 | 3 | 2011-01-02 |
| 209 | 209 | 104 | 3 | 2011-01-02 |
| 200 | 200 | 3 | 2011-01-02 |
```

22. Show the effect of giving one more star to the movies reviewed by 'Brittany Harris'. Here select relevant details from the RATING table.

23) Select movie title s with its reviewer name and stars received. Order the result by movie title in the alphabetical order.

24) Select movie title s with its stars received and rating date. Order the result by movie title in the alphabetical order, then by stars and rating date both in descending order.

25) Write a nested query to retrieve the details of the movies directed by a director who is also a reviewer.