## Tasks:

## T1:

# **T2:**

When we use steric we gets all entries including null entries but when we don't use star we gets only non-null entries.

# T3:

```
MariaDB [labtask3]> select MIN(TICKET_PRICE),max(TICKET_PRICE)
-> FROM TICKET;
+-----+
| MIN(TICKET_PRICE) | max(TICKET_PRICE) |
+-----+
| 10.99 | 42.10 |
+-----+
1 row in set (0.001 sec)
```

## **T4**:

When we miss group by clause, we will get only one row in result.

# **T5:**

When we dont specify the themepark.park\_code. myqsl will be confused to know that which park-code we are referring to.

```
MariaDB [labtask3]> SELECT THEMEPARK.PARK_CODE, PARK_NAME, ATTRACT_NAME,
      -> ATTRACT_CAPACITY
      -> FROM THEMEPARK, ATTRACTION
     -> WHERE THEMEPARK.PARK_CODE = ATTRACTION.PARK_CODE;
  PARK_CODE | PARK_NAME | ATTRACT_NAME | ATTRACT_CAPACITY
  FR1001 | FairyLand | ThunderCoaster
FR1001 | FairyLand | SpinningTeacups
FR1001 | FairyLand | FlightToStars
FR1001 | FairyLand | Ant-Trap
ZA1342 | GoldTown | NULL
FR1001 | FairyLand | Carnival
UK3452 | PleasureLand | 3D-Lego_Show
UK3452 | PleasureLand | BlackHole2
UK3452 | PleasureLand | Pirates
UK3452 | PleasureLand | UnderSeaWord
ZA1342 | GoldTown | GoldRush
                                                                                              34
                                                                                              24
                                                                                              30
                                                                                             120
                                                                                             200
                                                                                              34
                                                                                              42
                                                                                              80
11 rows in set (0.001 sec)
MariaDB [labtask3]> SELECT PARK_CODE, PARK_NAME, ATTRACT_NAME,
      -> ATTRACT CAPACITY
      -> FROM THEMEPARK, ATTRACTION
      -> WHERE THEMEPARK.PARK_CODE = ATTRACTION.PARK_CODE;
ERROR 1052 (23000): Column 'PARK_CODE' in field list is ambiguous
MariaDB [labtask3]>
```

# **T6:**

```
MariaDB [labtask3]> SELECT THEMEPARK.PARK_CODE, PARK_NAME, ATTRACT_NAME
   -> FROM THEMEPARK LEFT JOIN ATTRACTION ON
   -> THEMEPARK.PARK CODE = ATTRACTION.PARK CODE;
 PARK CODE | PARK NAME
                           ATTRACT_NAME
 FR1001
             FairyLand
                             ThunderCoaster
 FR1001
             FairyLand
                             SpinningTeacups
 FR1001
             FairyLand
                             FlightToStars
 FR1001
             FairyLand
                             Ant-Trap
 FR1001
             FairyLand
                             Carnival
             Efling
 NL1202
                             NULL
 SP4533
             AdventurePort |
                             NULL
 SW2323
             Labyrinthe
                             NULL
             MiniLand
 UK2622
                             NULL
 UK3452
             PleasureLand
                             3D-Lego_Show
 UK3452
             PleasureLand
                             BlackHole2
 UK3452
             PleasureLand
                             Pirates
 UK3452
            PleasureLand
                            UnderSeaWord
 ZA1342
             GoldTown
                             NULL
 ZA1342
           GoldTown
                            GoldRush
15 rows in set (0.001 sec)
```

# **T7:**

```
MariaDB [labtask3]> SELECT THEMEPARK.PARK_CODE, PARK_NAME, ATTRACT NAME
    -> FROM THEMEPARK RIGHT JOIN ATTRACTION ON
    -> THEMEPARK.PARK_CODE = ATTRACTION.PARK CODE;
 PARK_CODE | PARK_NAME
                          ATTRACT_NAME
 FR1001
             FairyLand
                            ThunderCoaster
  FR1001
             FairyLand
                            SpinningTeacups
             FairyLand
                            FlightToStars
 FR1001
 FR1001
             FairyLand
                            Ant-Trap
 ZA1342
             GoldTown
                            NULL
             FairyLand
                            Carnival
 FR1001
             PleasureLand
 UK3452
                            3D-Lego_Show
 UK3452
             PleasureLand
                            BlackHole2
 UK3452
             PleasureLand
                            Pirates
                            UnderSeaWord
 UK3452
             PleasureLand |
 ZA1342
             GoldTown
                            GoldRush
11 rows in set (0.001 sec)
```

# **Exercise:**

### **E4.1**:

```
MariaDB [labtask3]> SELECT AVG(HOUR_RATE) FROM HOURS
->;
+-----+
| AVG(HOUR_RATE) |
+-----+
| 7.033636 |
+-----+
1 row in set (0.001 sec)
```

### E4.2:

```
MariaDB [labtask3]> SELECT park_code ,AVG(attract_age) FROM attraction
-> group by park_code
-> having park_code='UK3452';
+-----+
| park_code | AVG(attract_age) |
+-----+
| UK3452 | 7.2500 |
```

### E4.3:

```
MariaDB [labtask3]> select emp_num,sum(hours_per_attract)
    -> from hours
    -> group by emp_num;

+-----+

| emp_num | sum(hours_per_attract) |
+-----+

| 100 | 12 |
| 101 | 6 |
| 102 | 12 |
| 104 | 12 |
| 105 | 12 |
+-----+

5 rows in set (0.001 sec)
```

### E4.4:

### E4.5:

```
MariaDB [labtask3]> SELECT EMP_NUM,ATTRACT_NO,AVG(HOURS_PER_ATTRACT)
    -> FROM HOURS
    -> GROUP BY EMP_NUM
    -> HAVING AVG(HOURS_PER_ATTRACT)>=5;

EMP_NUM | ATTRACT_NO | AVG(HOURS_PER_ATTRACT) |

100 | 10034 | 6.0000 |
101 | 10034 | 6.0000 |
104 | 30011 | 6.0000 |
3 rows in set (0.001 sec)
```

### E4.6:

```
77 rows in set (0.001 sec)
```

Answer: 77 rows.

E4.7:

```
MariaDB [labtask3]> SELECT EMP_FNAME,EMP_LNAME,ATTRACT_NO,DATE_WORKED
   -> from EMPLOYEE INNER JOIN HOURS
   -> WHERE EMPLOYEE.EMP NUM=HOURS.EMP NUM;
 EMP_FNAME | EMP_LNAME | ATTRACT_NO | DATE_WORKED |
 Emma
           | Calderdale |
                            10034 | 2007-05-18
           Calderdale
                             10034 | 2007-05-20
 Emma
 Marshel | Ricardo
Arif | Arshad
Arif | Arshad
                              10034 | 2007-05-18
                              30012 | 2007-05-23
                             30044 | 2007-05-21
 Arif
           Arshad
                              30044 | 2007-05-22
 Enrica Denver
                              30011 2007-05-21
                              30012 | 2007-05-22
 Mirrelle
           Namowa
                              10078 | 2007-05-18
 Mirrelle
           Namowa
                              10098 | 2007-05-18
 Mirrelle
           Namowa
                               10098 | 2007-05-19
11 rows in set (0.001 sec)
```

### E4.8:

```
MariaDB [labtask3]> SELECT EMP FNAME, EMP LNAME, ATTRACT NO, ATTRACT NAME FROM EMPLOYEE JOIN HOURS USING (EMP_NUM) JOIN ATTRACTION USING(ATTRACT_NO);
 EMP FNAME | EMP LNAME | ATTRACT NO | ATTRACT NAME
                             10034 | ThunderCoaster
            Calderdale
 Emma
            Calderdale
                             10034 | ThunderCoaster
                             10034 | ThunderCoaster
 Marshel
           Ricardo
 Arif
            Arshad
                             30012 | Pirates
 Arif
                             30044 UnderSeaWord
            Arshad
 Arif
           Arshad
                             30044 | UnderSeaWord
                             30011 | BlackHole2
 Enrica
            Denver
 Enrica
                             30012 | Pirates
            Denver
 Mirrelle
           Namowa
                             10078 | Ant-Trap
 Mirrelle Namowa
                             10098 | Carnival
 Mirrelle Namowa
                             10098 | Carnival
11 rows in set (0.001 sec)
```

### E4.9:

SELECT PARK\_NAME ,PARK\_COUNTRY, SUM(LINE\_PRICE)

FROM THEMEPARK JOIN SALES USING (PARK\_CODE) JOIN SALES\_LINE USING(TRANSACTION\_NO)

WHERE PARK\_CODE LIKE 'UK%' OR PARK\_CODE LIKE 'FR%' GROUP BY PARK\_NAME;

### E4.10:

```
Mariab8 [labtask3]> select sale_date, line_qty, line_price from sales join sales_line using (transaction_no) where sale_date = '2007-05-18';

| Sale_date | line_qty | line_price |
| 2007-05-18 | 2 | 60.98 |
| 2007-05-18 | 1 | 14.99 |
| 2007-05-18 | 2 | 41.98 |
| 2007-05-18 | 1 | 14.99 |
| 2007-05-18 | 1 | 14.99 |
| 2007-05-18 | 1 | 14.99 |
| 2007-05-18 | 1 | 14.99 |
| 2007-05-18 | 1 | 13.9.96 |
| 2007-05-18 | 4 | 139.96 |
| 2007-05-18 | 4 | 139.96 |
| 2007-05-18 | 4 | 139.96 |
| 2007-05-18 | 2 | 21.98 |
| 2007-05-18 | 2 | 21.98 |
| 2007-05-18 | 2 | 21.98 |
| 2007-05-18 | 2 | 21.98 |
| 2007-05-18 | 2 | 21.98 |
| 2007-05-18 | 2 | 21.98 |
| 2007-05-18 | 2 | 21.98 |
| 2007-05-18 | 2 | 21.98 |
| 2007-05-18 | 2 | 21.98 |
| 2007-05-18 | 2 | 21.98 |
| 2007-05-18 | 2 | 21.98 |
| 2007-05-18 | 2 | 21.98 |
| 2007-05-18 | 2 | 21.98 |
| 2007-05-18 | 2 | 21.98 |
| 2007-05-18 | 2 | 21.98 |
| 2007-05-18 | 2 | 21.98 |
| 2007-05-18 | 2 | 21.98 |
| 2007-05-18 | 2 | 21.98 |
| 2007-05-18 | 2 | 21.98 |
| 2007-05-18 | 2 | 21.98 |
| 2007-05-18 | 2 | 21.98 |
| 2007-05-18 | 2 | 21.98 |
| 2007-05-18 | 2 | 21.98 |
| 2007-05-18 | 2 | 21.98 |
| 2007-05-18 | 2 | 27.34 |
| 2007-05-18 | 2 | 37.12 |
| 2007-05-18 | 2 | 37.12 |
| 2007-05-18 | 2 | 37.12 |
| 2007-05-18 | 2 | 37.12 |
| 2007-05-18 | 2 | 37.12 |
| 2007-05-18 | 2 | 37.12 |
| 2007-05-18 | 2 | 37.12 |
| 2007-05-18 | 2 | 37.12 |
| 2007-05-18 | 2 | 37.12 |
| 2007-05-18 | 2 | 37.12 |
| 2007-05-18 | 2 | 37.12 |
| 2007-05-18 | 2 | 37.12 |
| 2007-05-18 | 2 | 37.12 |
| 2007-05-18 | 2 | 37.12 |
| 2007-05-18 | 2 | 37.12 |
| 2007-05-18 | 2 | 37.12 |
| 2007-05-18 | 2 | 37.12 |
| 2007-05-18 | 2 | 37.12 |
| 2007-05-18 | 2 | 37.12 |
| 2007-05-18 | 2 | 37.12 |
| 2007-05-18 | 2 | 37.12 |
| 2007-05-18 | 2 | 37.12 |
| 2007-05-18 | 2 | 37.12 |
| 2007-05-18 | 2 | 37.12 |
| 2007-05-18 | 2 | 37.12 |
| 2007-05-18 | 2 | 37.12 |
| 2007-05-18 | 2 | 37.12 |
| 2007-05-18 | 2 | 37.12 |
| 2007-05-18 | 2 | 37.12 |
| 2007-05-18 | 2 | 37.12 |
| 2007-05-18 | 2 | 37.12 |
| 2007-05-18 | 2 | 37.12 |
| 2007-05-18 | 2 | 37.12
```