Section 4B

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19P-0067



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### **EXAMPLE 1**

```
mysql> select distinct emp_num, emp_lname, emp_fname, park_name from employee na tural join hours natural join attraction natural join themepark where park_code in (select themepark.park_code from themepark where park_name like "%fairy%"); +-----+
| emp_num | emp_lname | emp_fname | park_name | +-----+
| 100 | Calderdale | Emma | FairyLand | | 105 | Namowa | Mirrelle | FairyLand | +-----+
2 rows in set (0.00 sec)
```

# EXAMPLE\_2

### FIGURE 69

# (TASK\_1)Figure 71.

# Figure 72.(TASK\_2)

# Figure 74(TASK\_3)

```
MariaDB [themepark_online]> SELECT TICKET_NO, PARK_CODE, TICKET_PRICE
-> FROM TICKET
-> WHERE TICKET_PRICE > ALL (SELECT TICKET_PRICE FROM TICKET
-> WHERE TICKET_TYPE = "CHILD");

| TICKET_NO | PARK_CODE | TICKET_PRICE |
| 11001 | SP4533 | 24.99 |
| 13002 | FR1001 | 34.99 |
| 67833 | ZA1342 | 28.67 |
| 88568 | UK3452 | 42.10 |
| tows in set (0.290 sec)
```

Figure 75.(TASK 4)

```
MariaDB [themepark online]> SELECT TICKET NO, TICKET PRICE,
    -> (SELECT AVG(TICKET_PRICE) FROM TICKET) AS AVGPRICE,
    -> TICKET PRICE - (SELECT AVG(TICKET PRICE) FROM TICKET) AS DIFF
    -> FROM TICKET;
  TICKET_NO | TICKET_PRICE | AVGPRICE
      11001
                     24.99
                             21.740000
                                           3.250000
      11002
                     14.99
                             21.740000
                                          -6.750000
                     10.99
                             21.740000
                                         -10.750000
     11003
      13001
                     18.99
                             21.740000
                                          -2.750000
                     34.99
     13002
                            21.740000
                                          13.250000
     13003
                     20.99
                             21.740000
                                          -0.750000
      67832
                     18.56
                             21.740000
                                          -3.180000
      67833
                    28.67
                            21.740000
                                          6.930000
                    12.12
                             21.740000
      67855
                                          -9.620000
                     22.50
      88567
                             21.740000
                                          0.760000
      88568
                    42.10 | 21.740000
                                          20.360000
                     10.99 | 21.740000 |
      89720
                                         -10.750000
12 rows in set (0.039 sec)
```

# Figure 76(TASK\_5)

```
MariaDB [themepark_online]> SELECT TRANSACTION_NO, LINE_NO, LINE_QTY, LINE_PRICE
    -> FROM SALES_LINE SL
    -> WHERE SL.LINE_QTY > (SELECT AVG(LINE_QTY)
    -> FROM SALES LINE SA
    -> WHERE SA. TRANSACTION NO = SL. TRANSACTION NO);
 TRANSACTION_NO | LINE_NO | LINE_QTY | LINE_PRICE
          12781
                                    2
                                             69.98
          12785
                                            139.96
          34534
                                            168.40
          34537
                                            84.20
          34540
                                            168.40
 rows in set (0.033 sec)
```

#### E 5.1

```
MariaDB [themepark_online]> select distinct emp_fname,emp_lname from employee natural join hours where hour_rate >(select avg(hour_rate) from hours);
+------+
| emp_fname | emp_lname |
+-----+
| Enrica | Denver |
| Mirrelle | Namowa |
+------+
2 rows in set (0.113 sec)
```

# E 5.2

```
mysql> SELECT EMP_FNAME, EMP_LNAME, DATE_WORKED, (SELECT AUG(HOURS_PER_ATTRACT)
FROM HOURS) AS AVERAGE, HOURS_PER_ATTRACT - (SELECT AUG(HOURS_PER_ATTRACT) FROM
HOURS) AS DIFFERENCE FROM EMPLOYEE NATURAL JOIN HOURS;
 EMP_FNAME | EMP_LNAME | DATE_WORKED | AVERAGE | DIFFERENCE |
                              -----
          | Calderdale | 2007-05-18 | 4.9091 |
                                                   1.0909
 Emma
 Emma
          | Calderdale | 2007-05-20 | 4.9091 |
                                                  1.0909 |
 Marshel | Ricardo | 2007-05-18 | 4.9091 |
                                                  1.0909 I
 Arif
          | Arshad
                      | 2007-05-23 | 4.9091 |
                                                  -1.9091 I
 Arif
          | Arshad
                     | 2007-05-21 | 4.9091 |
                                                  1.0909 |
                     | 2007-05-22 | 4.9091 |
                                                  -1.9091 I
 Arif
          | Arshad
 Enrica | Denver
                     | 2007-05-21 | 4.9091 |
                                                  1.0909 |
 Enrica | Denuer | 2007-05-22 | 4.9091 |
Mirrelle | Namowa | 2007-05-18 | 4.9091 |
Mirrelle | Namowa | 2007-05-18 | 4.9091 |
                                                  1.0909 |
                                                  -1.9091 |
                                                  -1.9091 I
                    | 2007-05-19 | 4.9091 |
                                                  1.0909 |
 Mirrelle | Namowa
1 rows in set (0.00 sec)
```

### E 5.3

```
MariaDB [themepark_online]> select park_code, park_name,park_country
-> from themepark
-> where exists (select park_code from sales
-> where sales.park_code = themepark.park_code);

| park_code | park_name | park_country |
| FR1001 | FairyLand | FR |
| UK3452 | PleasureLand | UK |
| ZA1342 | GoldTown | ZA |
| 3 rows in set (0.001 sec)
```

#### E 5.4

```
MariaDB [themepark_online]> select park_code,park_name,park_country from themepark where NOT EXISTS ( select park_code
rom sales where sales.park_code =themepark.park_code);
 park_code | park_name
                           | park_country |
 NL1202
             Efling
                             NL
 SP4533
             AdventurePort
                             SP
 SW2323
             Labyrinthe
             MiniLand
 UK2622
                             UK
 rows in set (0.013 sec)
```

# E 5.5