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Section: 4A

Roll No: 19P-0061

Lab Examples

1.

select park_code, ticket_no, ticket_type, ticket_price,
ticket_price + round((ticket_price *0.1),2) price_increase
from ticket;

PARK_CODE	1	TICKET_NO	1	TICKET_TYPE	TICKET_PR	ICE	1	PRICE_INCREASE	
SP4533	ī	11001	i	Adult	24	.99	ī	27.49	i
SP4533		11002	1	Child	1 14	.99	1	16.49	1
SP4533	Ĭ	11003	1	Senior	1 10	.99	T	12.09	I
FR1001		13001	1	Child	1 18	.99	1	20.89	1
FR1001		13002	1	Adult	1 34	.99	I	38.49	1
FR1001		13003	1	Senior	1 20	.99	1	23.09	1
ZA1342		67832	1	Child	1 18	.56	1	20.42	
ZA1342		67833	1	Adult	1 28	.67	- 1	31.54	
ZA1342		67855	1	Senior	1 12	.12	I	13.33	
UK3452		88567	1	Child	1 22	.50	1	24.75	
UK3452	Ĭ	88568	1	Adult	1 42	.10	I	46.31	
UK3452		89720	1	Senior	1 10	.99	1	12.09	

2

select park_code, ticket_type, ticket_price from ticket where ticket_price > 20;

```
PARK_CODE | TICKET_TYPE | TICKET_PRICE
          | Adult
SP4533
                                  24.99
FR1001
          | Adult
                                  34.99
FR1001
            Senior
                                  20.99
ZA1342
            Adult
                                  28.67
UK3452
          | Child
                                  22.50
UK3452
          | Adult
                                  42.10 I
rows in set (0.00 sec)
```

select park_code, ticket_type, ticket_price from ticket where ticket_price <30;

```
mysql> SELECT PARK_CODE, TICKET_TYPE, TICKET_PRICE from ticket where ticket_pric
 <30;
 PARK_CODE | TICKET_TYPE | TICKET_PRICE |
 SP4533
                                    14.99 |
10.99 |
 SP4533
            | Child
 SP4533
            | Senior
 FR1001
            | Child
                                    18.99
 FR1001
            | Senior
                                    20.99
 ZA1342
            | Child
                                    18.56
                                    28.67
 ZA1342
            | Adult
 ZA1342
            | Senior
                                    12.12
                                    22.50 I
 UK3452
              Child
 UK3452
                                    10.99
            | Senior
10 rows in set (0.00 sec)
```

4.

select park_code, park_name, park_country from themepark where park_code < "uk2262";

```
mysql> select park_code, park_name, park_country from themepark where park_code
  "uk2262";
 park_code | park_name
                           | park_country |
                            I FR
 FR1001
           | FairyLand
 NL1202
           | Efling
                            I NL
 SP4533
           | AdventurePort | SP
           | Labyrinthe
 SW2323
                            I SW
4 rows in set (0.00 sec)
```

Select emp_num, attract_no, hours_per_attract, from hours where hours_per_attract between 5 and 10

```
mysql> select emp_num, attract_no, hours_per_attract from hours where hours_per_
attract between 5 and 10;
 emp_num | attract_no | hours_per_attract |
     100 I
                10034 I
                                         6 1
      100 |
                 10034
                                         6 |
     101 |
                 10034 |
                                         6 |
                                         6 |
     102 |
                 30044 |
      104 |
                 30011 I
      104 I
                 30012 |
                                         6 |
      105 |
 rows in set (0.00 sec)
mysq1>
```

6.

Select * from ticket where ticket_type in ('child', 'senior');

```
mysql> select * from ticket where ticket_type in ('child', 'senior');
  TICKET_NO | TICKET_PRICE | TICKET_TYPE | PARK_CODE |
                 14.99 | Child
10.99 | Senior
                                        | SP4533
| SP4533
| FR1001
      11002 |
      11003 I
                     18.99 | Child
20.99 | Senior
      13001 I
                                            I FR1001
      13003 |
                      18.56 | Child
                                            | ZA1342
      67832 |
                      12.12 | Senior
22.50 | Child
                                            I ZA1342
      67855 I
                                             | UK3452
      88567 |
                       10.99 | Senior
      89720 |
                                             I UK3452
 rows in set (0.00 sec)
mysql>
```

select emp Iname, emp fname, emp num from employee where emp fname like 'a%';

```
| EMP_LNAME | EMP_FNAME | EMP_NUM |
| Arshad | Arif | 102 |
| Roberts | Anne | 103 |
| cows in set (0.00 sec)
```

8.

Select * from themepark where park_name like "%land";

```
mysql> Select × from themepark where park_name like '%Land';
+-----+
| PARK_CODE | PARK_NAME | PARK_CITY | PARK_COUNTRY |
+----+
| FR1001 | FairyLand | PARIS | FR |
| UK2622 | MiniLand | WINDSOR | UK |
| UK3452 | PleasureLand | STOKE | UK |
+----+
3 rows in set (0.00 sec)
```

9.

select emp_num, attract_no from hours where hours_per_attract > 3 and date_worked > '2007-05-18';

```
ysql> SELECT EMP_NUM, ATTRACT_NO
   -> FROM HOURS
   -> WHERE HOURS_PER_ATTRACT > 3
   -> AND DATE_WORKED > '2007-05-18';
EMP_NUM | ATTRACT_NO |
     100 |
                10034 |
     102 |
                30044
     104 |
                30011
     104 |
                30012
     105 I
                10098
rows in set (0.00 sec)
```

select * from attraction where attract_age <=10 and attract_capacity < 100 and attract_name is not null;

```
mysql> select * from attraction where attract_age <=10 and attract_capacity <
00 and attract_name is not null;
                               | ATTRACT_AGE | ATTRACT_CAPACITY | PARK_CODE |
  ATTRACT_NO | ATTRACT_NAME
                                           4 |
       10056 | SpinningTeacups |
                                                             62 | FR1001
       30012 | Pirates
                                          10 |
                                                             42 | UK3452
                                           4 1
       30044 | UnderSeaWord
                                                             80 | UK3452
       98764 | GoldRush
                                           5 |
 rows in set (0.00 sec)
```

11.

select * from attraction where (park_code like "fr%" and attract_capacity <50) or (attract_capacity > 100);

```
ATTRACT_NO | ATTRACT_NAME
                             | ATTRACT_AGE | ATTRACT_CAPACITY | PARK_CODE |
     10034 | ThunderCoaster |
                                        11 I
                                                           34 | FR1001
     10067 | FlightToStars
                                        11 I
                                                           24
                                                                FR1001
     10078 | Ant-Trap
                                        23 |
                                                           30 | FR1001
     10098 | Carnival
                                        3 |
                                                          120 | FR1001
     20056 | 3D-Lego_Show
                                         3 |
                                                          200 | UK3452
rows in set (0.00 sec)
```

This query is showing all the records from the attraction table where an attraction has either both a park code that starts with 'FR' and has a capacity of less than 50 people, or an attraction that has just a capacity of over 100 people.

select * from employee order by emp_lname, emp_fname;

```
EMP_NUM | EMP_TITLE | EMP_LNAME | EMP_FNAME | EMP_DOB
                                                      | EMP_HIRE_DATE | EM
_AREA_CODE | EMP_PHONE | PARK_CODE |
    102 | Mr | Arshad
                               | Arif
                                          | 1969-11-14 | 1990-12-20
         | 675-8993 | FR1001
                                        | 1972-06-15 | 1992-03-15
                                                                     1 01
    100 | Ms | Calderdale | Emma
         | 324-9134 | FR1001
                 | Denver
    104 | Mr
                               | Enrica | 1980-11-08 | 2001-10-20
                                                                     1 72
         | 504-4434 | ZA1342
                 | Namowa
                               | Mirrelle | 1990-03-14 | 2006-11-08
                                                                     | 01
    105 | Ms
         | 890-3243 | FR1001
                                                                     01
    101 | Ms
                  | Ricardo
                               | Marshel | 1978-03-19 | 1996-04-25
         | 324-4472 | UK3452
                               | Anne
    103 | Ms
                 | Roberts
                                          | 1974-10-16 | 1994-08-16
                                                                     1 01
         | 898-3456 | UK3452
    106 | Mrs
                                          | 1968-02-12 | 1989-01-05
                                                                     01
                 | Smith
                               | Gemma
         | 324-7845 | ZA1342
rows in set (0.00 sec)
```

13.

select ticket_type, park_code from ticket where (ticket_price > 15 and ticket_type like 'child') order by ticket_no desc;

This query displays the ticket price greater than 15 for the ticket type of "CHILD" in descending order.

14.

select distinct(park_code) from attraction;

```
mysql> select distinct(park_code) from attraction;

+-----+

| park_code |

+-----+

| FR1001 |

| UK3452 |

| ZA1342 |

+-----+

3 rows in set (0.00 sec)
```

LAB TASK

1.

select park_code,park_name, park_city, park_country from themepark where park country!='UK';

```
mysql> select park_code,park_name, park_city, park_country from themepark where
    -> park_country!='UK';
 park_code | park_name
                          | park_city
                                          | park_country |
 FR1001
           | FairyLand
                          | PARIS
                                          I FR
 NL1202
                           I NOORD
                                          I NL
           | Efling
             AdventurePort | BARCELONA
                                            SP
 SP4533
 SW2323
             Labyrinthe
                           LAUSANNE
                                            SW
 ZA1342
           | GoldTown
                            | JOHANNESBURG |
 rows in set (0.00 sec)
mysq1>
```

2.

select transaction_no,park_code,sale_date from sales where sale_date = '2007-05-18';

```
mysql>
mysql> select transaction_no, park_code, sale_date from sales where sale_date =
'2007-05-18';
 transaction_no | park_code | sale_date |
            12781 | FR1001
                                | 2007-05-18
            12782 | FR1001
                                  2007-05-18
                                  2007-05-18
2007-05-18
            12783 | FR1001
            12784 |
                     FR1001
            12785
                     FR1001
                                   2007-05-18
            12786
                     FR1001
                                   2007-05-18
            34534
                     UK3452
                                   2007-05-18
            34535
                                   2007-05-18
            34536
                     UK3452
                                   2007-05-18
            34537 |
                     UK3452
                                   2007-05-18
            34538 |
                     UK3452
                                   2007-05-18
            34539 |
                     UK3452
                                   2007-05-18
            34540
                     UK3452
                                   2007-05-18
            34541 |
                     UK3452
                                   2007-05-18
                                  2007-05-18
2007-05-18
            67589
                     ZA1342
            67590 | ZA1342
67591 | ZA1342
            67591 | ZA1342
67592 | ZA1342
                                   2007-05-18
                                   2007-05-18
```

select ticket_no, ticket_price, ticket_type, park_code from ticket where ticket_price between 20 and 30;

```
mysql> select ticket_no, ticket_price, ticket_type, park_code from ticket where
ticket_price between 20 and 30;
 ticket_no | ticket_price | ticket_type | park_code |
                      24.99 | Adult
20.99 | Senior
                                             | SP4533
      11001 |
                       20.99 | Senior
28.67 | Adult
      13003
                                             I FR1001
                                             I ZA1342
      67833 I
      88567 I
                       22.50 | Child
                                              | UK3452
 rows in set (0.00 sec)
mysq1>
```

4.

mysql> select attract_no, attract_name , attract_age, attract_capacity, park_cod e from attraction where attract_capacity > 60 and park_code = 'fr1001';

select attract_no, hour_rate, round(hour_rate*1.2,2) as increased_rate
from hours;

```
mysql> select attract_no, hour_rate, round(hour_rate×1.2,2) as increased_rate
om hours;
 attract_no | hour_rate | increased_rate |
                                          7.80
7.80
7.80
7.19
       10034 |
                      6.50 |
                      6.50 I
       10034
       10034
       30012
                      5.99 I
                      5.99
5.99
7.20
7.20
       30044
       30044
       30011
       30012
                      8.50
8.50
       10078
       10098
                                         10.20
                      8.50 I
                                         10.20 I
       10098
 1 rows in set (0.00 sec)
```

6.

The between operator is used to find the range of data between two values while the IN operator is used to find only specified values.

7.

select distinct(emp_num) from hours;

```
mysql> select distinct(emp_num) from hours;
+-----+
| emp_num |
+-----+
| 100 |
| 101 |
| 102 |
| 104 |
| 105 |
+-----+
5 rows in set (0.03 sec)
```

8. select * from sales order by sale_date desc;

```
mysql> select× from sales order by sale_date desc;
  TRANSACTION_NO | PARK_CODE | SALE_DATE |
             12781 | FR1001
12782 | FR1001
                                     2007-05-18 |
                                     2007-05-18
             12783 | FR1001
12784 | FR1001
                                     2007-05-18
                                     2007-05-18
             12785 | FR1001
                                     2007-05-18
             12786 | FR1001
                                     2007-05-18
             34534 | UK3452
34535 | UK3452
                                     2007-05-18
                                     2007-05-18
             34536 | UK3452
                                     2007-05-18
             34537 | UK3452
                                     2007-05-18
                                     2007-05-18
2007-05-18
2007-05-18
             34538 | UK3452
34539 | UK3452
             34540 | UK3452
                                     2007-05-18 |
2007-05-18 |
             34541 |
                      UK3452
             67589 I
                      ZA1342
                                     2007-05-18
             67590 I
                      ZA1342
                      ZA1342
ZA1342
             67591
                                     2007-05-18
             67592
                                     2007-05-18 |
             67593 | ZA1342
                                     2007-05-18 |
19 rows in set (0.00 sec)
```

9.

select transaction_no, line_price from sales_line where line_price > 50;

```
mysql> select transaction_no, line_price from sales_line where line_price >50;
 transaction_no | line_price |
           12781 |
                        69.98 I
                        69.98
           12782 |
           12785 |
                        139.96
           34534 |
                        168.40
           34535 |
                        84.20
                        84.20
           34537 |
           34539
                        84.20
           34540 |
                        168.40
                        84.20
57.34
           34541 |
           67589
                        57.34
           67590 I
           67592
                        114.68
                        57.34
           67593
13 rows in set (0.00 sec)
mysql>
```

select emp num, emp fname from employee order by emp num desc limit 2;