IMPLEMENTATION OF DIFFERENT TYPES OF OPERATORS IN SQL

Lab 3

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Write SQL statements for the following query.

Create a table salesmen with following schema:(salesman_id, name, city, age, commission)

```
mysql> create table Salesman(salesman_id varchar(10), name varchar(20),city varchar(15), age int, commission float);
Query OK, 0 rows affected (0.01 sec)
[mysql> describe salesman;
| Field
             l Type
                        | Null | Key | Default | Extra |
| salesman_id | varchar(10) | YES |
                                       I NULL
             | varchar(20) | YES
                                       I NULL
             | varchar(15) | YES |
                                       I NULL
I city
             I int
                           I YES I
                                       I NULL
l age
| commission | float
                           I YES I
                                       I NULL
5 rows in set (0.01 sec)
```

Displaying data entered (using query: insert into employee values(...))

```
[mysql> select * from salesman;
| salesman_id | name | city
                                          | commission |
                                   l age
1 3005
               | Amit | Paris
                                       38 I
                                                    600 I
               | Kiran | Delhi
                                       26 I
1 3006
                                                    400 I
               | Nitin | Rome
1 3007
                                       24 I
                                                    450 I
1 3008
               | Kalki | Paris
                                       38 I
                                                    900 |
1 3009
               | Naina | Rome
                                       40 I
                                                    200 I
3010
               | Sunil | Mumbai
                                       33 I
                                                    300 I
I 3011
               | Beena | Bangalore |
                                       39 I
                                                    750 I
7 rows in set (0.00 sec)
```

1. Filter those salesmen with all information who comes from any of the cities Paris and Rome

2. Make a list of salesman_id, name, city and commission of each salesman who live in cities other than Paris and Rome

```
[mysql> select salesman_id,name,city,commission from salesman where city not in ("Paris", "Rome");
+------+
| salesman_id | name | city | commission |
+-----+
| 3006 | Kiran | Delhi | 400 |
| 3010 | Sunil | Mumbai | 300 |
| 3011 | Beena | Bangalore | 750 |
+------+
3 rows in set (0.00 sec)
```

3. Write a SQL statement to find those salesmen with all information who gets the commission within a range of 100 and 500

```
[mysql> select * from salesman where commission between 100 and 500;
            -+----
| salesman_id | name | city | age | commission |
1 3006
             | Kiran | Delhi
                               26 I
                                          400 l
1 3007
             | Nitin | Rome
                               24 I
                                          450 I
3009
             | Naina | Rome
                               40 I
                                          200 I
             | Sunil | Mumbai |
3010
                               33 I
                                          300 I
4 rows in set (0.01 sec)
```

4. Write a query to sort out those salesmen with all information whose ID value is within any of 3007, 3008 and 3009.

5. Write a SQL statement to find those salesmen with all other information and name started with any letter within 'A' and 'K'

```
[mysql> select * from salesman where name >= 'A' and name <= 'L' order by name;</pre>
 | salesman_id | name
                       | city
                                    l age
                                           | commission |
               | Amit
                       l Paris
 1 3005
                                        38 I
                                                    600 I
 I 3011
               | Beena | Bangalore |
                                        39 I
                                                    750 I
               | Kalki | Paris
3008
                                        38 I
                                                    900 |
1 3006
               | Kiran | Delhi
                                        26 I
                                                    400 I
4 rows in set (0.00 sec)
```

6. Write a SQL statement to find that salesman with all information whose name begins with the letter 'B'.

```
      [mysql> select * from salesman where name like 'B%';

      +-----+

      | salesman_id | name | city | age | commission |

      +----+

      | 3011 | Beena | Bangalore | 39 | 750 |

      +----+

      1 row in set (0.00 sec)
```

7. Write a SQL statement to find all those salesmen with all information whose names are ending with the letter 'n'

8. Write a SQL statement to find those salesmen with all information whose name containing the 1st character is 'N' and the 4th character is 'l' and rests may be any character

9. Display the salesman details in ascending order of his age

```
mysql> select * from salesman order by age;
| salesman_id | name | city
                                 lage | commission |
1 3007
              | Nitin | Rome
                                     24 I
                                                 450 I
1 3006
              | Kiran | Delhi
                                     26 I
                                                 400 I
3010
             | Sunil | Mumbai
                                 I 33 I
                                                 300
              | Amit | Paris
1 3005
                                 I 38 I
                                                 600 I
              | Kalki | Paris
3008
                                 l 38 l
                                                 900 |
1 3011
             | Beena | Bangalore | 39 |
                                                 750 I
              | Naina | Rome
                                     40 I
                                                 200 I
7 rows in set (0.01 sec)
```

10. Display names of salesman containing two a's in his name

11. Display the count of salesman within the age group 25 to 35

```
[mysql> select count(*) from salesman where age between 25 and 35;
+-----+
| count(*) |
+-----+
| 2 |
+-----+
1 row in set (0.00 sec)
```

12. Display the total number of salesman staying in each city