Sample table Name: salesman

```
salesman_id |   name   |  city  | commission
-------------+----------+--------+------------
    5001 | James Hoog | New York |    0.15
    5002 | Nail Knite | Paris   |    0.13
    5005 | Pit Alex  | London  |    0.11
    5006 | Mc Lyon   | Paris   |    0.14
    5007 | Paul Adam | Rome    |    0.13
    5003 | Lauson Hen | San Jose |    0.12
    5008 | Rose Willy | NULL    |    0.17
    5009 | Lauson Hen | Itly   |    NULL
```

1) Write a SQL statement that displays all the information about all salespeople.
mysql> SELECT * FROM salesman;

```
+-------------+------------+----------+------------+
| salesman_id | name       | city     | commission |
+-------------+------------+----------+------------+
|        5001 | James Hoog | New York |       0.15 |
|        5002 | Nail Knite | Paris    |       0.13 |
|        5003 | Lauson Hen | San Jose |       0.12 |
|        5005 | Pit Alex   | London   |       0.11 |
|        5006 | Mc Lyon    | Paris    |       0.14 |
|        5007 | Paul Adam  | Rome     |       0.13 |
|        5008 | Rose Willy | NULL     |       0.17 |
|        5009 | Lauson Hen | Itly     |       NULL |
+-------------+------------+----------+------------+
```

2) Write a SQL statement to display specific columns such as names and commissions for all salespeople.
mysql> SELECT name,commission FROM salesman;

```
+------------+------------+
| name       | commission |
+------------+------------+
| James Hoog |       0.15 |
| Nail Knite |       0.13 |
| Lauson Hen |       0.12 |
| Pit Alex   |       0.11 |
| Mc Lyon    |       0.14 |
| Paul Adam  |       0.13 |
| Rose Willy |       0.17 |
| Lauson Hen |       NULL |
+------------+------------+
```

3) Write a SQL query to locate salespeople who live in the city of 'Paris', Return salesperson's name, city.
mysql> SELECT name,city FROM salesman WHERE city='Paris';

```
+----------------+--------+
| name           | city   |
+----------------+--------+
| Nail Knite     | Paris  |
| Mc Lyon        | Paris  |
+----------------+--------+
```

4) write a SQL query to locate salespeople who live in the city of 'San Jose'. Return salesperson's name, commission.

mysql> SELECT name,commission FROM salesman WHERE city='San Jose';

```
+----------------+--------------+
| name           | commission   |
+----------------+--------------+
| Lauson Hen     |         0.12 |
+----------------+--------------+
```

5) Write a SQL statement to display columns such as salesman_id ,names and city for all salespeople.

mysql> SELECT salesman_id,name,city FROM salesman;

```
+-------------+-------------+-----------+
| salesman_id | name        | city      |
+-------------+-------------+-----------+
|        5001 | James Hoog  | New York  |
|        5002 | Nail Knite  | Paris     |
|        5003 | Lauson Hen  | San Jose  |
|        5005 | Pit Alex    | London    |
|        5006 | Mc Lyon     | Paris     |
|        5007 | Paul Adam   | Rome      |
|        5008 | Rose Willy  | NULL      |
|        5009 | Lauson Hen  | Itly      |
+-------------+-------------+-----------+
```

6) Write a SQL query to display columns such as salesman_id ,names and city for all salespeople.

mysql> SELECT salesman_id,name,city FROM salesman;

```
+-------------+-------------+-----------+
| salesman_id | name        | city      |
+-------------+-------------+-----------+
|        5001 | James Hoog  | New York  |
|        5002 | Nail Knite  | Paris     |
|        5003 | Lauson Hen  | San Jose  |
|        5005 | Pit Alex    | London    |
|        5006 | Mc Lyon     | Paris     |
|        5007 | Paul Adam   | Rome      |
|        5008 | Rose Willy  | NULL      |
|        5009 | Lauson Hen  | Itly      |
+-------------+-------------+-----------+
```

7) Write a SQL statement that displays all the information Arranged the output in ascending order by name.

mysql> SELECT * FROM salesman ORDER BY name;

```
+-------------+-------------+-----------+------------+
| salesman_id | name        | city      | commission |
+-------------+-------------+-----------+------------+
|        5001 | James Hoog  | New York  |       0.15 |
|        5003 | Lauson Hen  | San Jose  |       0.12 |
|        5009 | Lauson Hen  | Itly      |       NULL |
|        5006 | Mc Lyon     | Paris     |       0.14 |
|        5002 | Nail Knite  | Paris     |       0.13 |
|        5007 | Paul Adam   | Rome      |       0.13 |
|        5005 | Pit Alex    | London    |       0.11 |
|        5008 | Rose Willy  | NULL      |       0.17 |
+-------------+-------------+-----------+------------+
```

8) Write a SQL statement that displays all the information Arranged the output in ascending order by salesman_id.

mysql> SELECT * FROM salesman ORDER BY salesman_id;

```
+-------------+-------------+-----------+------------+
| salesman_id | name        | city      | commission |
+-------------+-------------+-----------+------------+
|        5001 | James Hoog  | New York  |       0.15 |
|        5002 | Nail Knite  | Paris     |       0.13 |
|        5003 | Lauson Hen  | San Jose  |       0.12 |
|        5005 | Pit Alex    | London    |       0.11 |
|        5006 | Mc Lyon     | Paris     |       0.14 |
|        5007 | Paul Adam   | Rome      |       0.13 |
|        5008 | Rose Willy  | NULL      |       0.17 |
|        5009 | Lauson Hen  | Itly      |       NULL |
+-------------+-------------+-----------+------------+
```

9) Write a SQL statement that displays all the information Sort the output in descending order on salesman_id.

mysql> SELECT * FROM salesman ORDER BY salesman_id DESC;

```
+-------------+-------------+-----------+------------+
| salesman_id | name        | city      | commission |
+-------------+-------------+-----------+------------+
|        5009 | Lauson Hen  | Itly      |       NULL |
|        5008 | Rose Willy  | NULL      |       0.17 |
|        5007 | Paul Adam   | Rome      |       0.13 |
|        5006 | Mc Lyon     | Paris     |       0.14 |
|        5005 | Pit Alex    | London    |       0.11 |
|        5003 | Lauson Hen  | San Jose  |       0.12 |
|        5002 | Nail Knite  | Paris     |       0.13 |
|        5001 | James Hoog  | New York  |       0.15 |
+-------------+-------------+-----------+------------+
```

10) Write a SQL statement that displays all the information who live in the city of 'San Jose' AND 'Paris' Sort the output in descending order on salesman_id.

mysql> SELECT * FROM salesman WHERE city='San Jose' and city='Paris' ORDER BY salesman_id DESC;

Empty set (0.00 sec)

11) write a SQL query to locate who lives in the city of 'San Jose' AND 'Paris' Sort the output in ascending order on salesman_id.
mysql> SELECT * FROM salesman WHERE city BETWEEN 'san jose' and 'paris' ORDER BY salesman_id;
Empty set (0.00 sec)

12) Write a SQL statement who lives in the city of 'San Jose' AND 'Paris' Sort the output in descending order of name.
mysql> SELECT * FROM salesman WHERE city='San Jose' and city='Paris' ORDER BY name DESC;
Empty set (0.00 sec)

13) Write a SQL query to locate who lives in the city of 'Rome' OR 'London' Sort the output in ascending order on salesman_id.
mysql> SELECT * FROM salesman WHERE city='rome' OR city='london' ORDER BY salesman_id;

```
+-------------+-----------+---------+------------+
| salesman_id | name      | city    | commission |
+-------------+-----------+---------+------------+
|        5005 | Pit Alex  | London  |       0.11 |
|        5007 | Paul Adam | Rome    |       0.13 |
+-------------+-----------+---------+------------+
```

14) Write a SQL query to locate who lives in the city of 'New York' OR 'London' Sort the output in ascending order based on city.
mysql> SELECT * FROM salesman WHERE city IN('new york','london') ORDER BY city;

```
+-------------+------------+----------+------------+
| salesman_id | name       | city     | commission |
+-------------+------------+----------+------------+
|        5005 | Pit Alex   | London   |       0.11 |
|        5001 | James Hoog | New York |       0.15 |
+-------------+------------+----------+------------+
```

15) write a SQL query to locate who lives in the name of 'James Hoog' OR 'Paul Adam' Sort the output in ascending order on commission.
mysql> SELECT * FROM salesman WHERE name IN('james hoog','paul adam') ORDER BY commission;

```
+-------------+------------+----------+------------+
| salesman_id | name       | city     | commission |
+-------------+------------+----------+------------+
|        5007 | Paul Adam  | Rome     |       0.13 |
|        5001 | James Hoog | New York |       0.15 |
+-------------+------------+----------+------------+
```

16) Write a SQL statement to display specific columns such as names and commissions,city for all salespeople having commission 0.13.
mysql> SELECT name, commission, city FROM Salesman WHERE commission LIKE 0.13;

```
+--------------+------------+--------+
| name         | commission | city   |
+--------------+------------+--------+
| Nail Knite   |       0.13 | Paris  |
| Paul Adam    |       0.13 | Rome   |
+--------------+------------+--------+
```

17) Write a SQL statement to display specific columns such as names and commissions for all salespeople having commission greater than 0.12.
mysql> SELECT name,commission FROM salesman WHERE commission>0.12;

```
+--------------+------------+
| name         | commission |
+--------------+------------+
| James Hoog   |       0.15 |
| Nail Knite   |       0.13 |
| Mc Lyon      |       0.14 |
| Paul Adam    |       0.13 |
| Rose Willy   |       0.17 |
+--------------+------------+
```

18) Write a SQL statement to display all salespeople having commission greater than 0.12.
mysql> SELECT * FROM salesman WHERE commission>0.12;

```
+-------------+--------------+----------+------------+
| salesman_id | name         | city     | commission |
+-------------+--------------+----------+------------+
|        5001 | James Hoog   | New York |       0.15 |
|        5002 | Nail Knite   | Paris    |       0.13 |
|        5006 | Mc Lyon      | Paris    |       0.14 |
|        5007 | Paul Adam    | Rome     |       0.13 |
|        5008 | Rose Willy   | NULL     |       0.17 |
+-------------+--------------+----------+------------+
```

19) Write a SQL statement that displays all the information salespeople having city is NULL.
mysql> SELECT * FROM salesman WHERE city IS NULL;

```
+-------------+--------------+------+------------+
| salesman_id | name         | city | commission |
+-------------+--------------+------+------------+
|        5008 | Rose Willy   | NULL |       0.17 |
+-------------+--------------+------+------------+
```

20) Write a SQL statement that displays all the information salespeople having commission is NULL.

mysql> SELECT * FROM salesman WHERE commission IS NULL;

```
+-------------+------------+-------+------------+
| salesman_id | name       | city  | commission |
+-------------+------------+-------+------------+
|        5009 | Lauson Hen | Itly  |       NULL |
+-------------+------------+-------+------------+
```