Create following tables in spj database.

mysql> SELECT * FROM s;

```
+----+-------+--------+--------+
| S# | Sname | status | city   |
+----+-------+--------+--------+
| S1 | Smith |     20 | London |
| S2 | Jones |     10 | Paris  |
| S3 | Blake |     30 | Paris  |
| S4 | Clark |     20 | London |
| S5 | Adams |     30 | Athens |
+----+-------+--------+--------+
```

mysql> SELECT * FROM p;

```
+----+-------+-------+--------+--------+
| p# | Pname | color | weight | city   |
+----+-------+-------+--------+--------+
| p1 | Nut   | RED   |     12 | london |
| p2 | bolt  | green |     17 | paris  |
| p3 | SCREW | blue  |     17 | ROME   |
| p4 | Screw | RED   |     14 | london |
| p5 | cam   | blue  |     12 | paris  |
| p6 | cog   | red   |     19 | london |
+----+-------+-------+--------+--------+
```

mysql> SELECT * FROM j;

```
+----+----------+--------+
| J# | Jname    | City   |
+----+----------+--------+
| j1 | sorter   | paris  |
| j2 | punch    | rome   |
| j3 | reader   | athens |
| j4 | console  | athens |
| j5 | collator | london |
| j6 | terminal | oslo   |
| j7 | tape     | london |
+----+----------+--------+
```

mysql> SELECT * FROM sp;

S#	P#	J#	QTY
S1	P1	J1	200
S1	P1	J4	700
S2	P3	J1	400
S2	P3	J2	200
S2	P3	J3	200
S2	P3	J4	500
S2	P3	J5	600
S2	P3	J6	400
S2	P3	J7	800
S2	P5	J2	100
S3	P3	J1	200
S3	P4	J2	500
S4	P6	J3	300
S4	P6	J7	300
S5	P2	J2	200
S5	P2	J4	100
S5	P5	J5	500
S5	P5	J7	100
S5	P6	J2	200
S5	P1	J4	100
S5	P3	J4	200
S5	P4	J4	800
S5	P5	J4	400
S5	P6	J4	500

1. How many orders data is present in the database?

show tables;

```
+-----------------+
| Tables_in_sales |
+-----------------+
| customers       |
| orders          |
| salespeople     |
+-----------------+
3 rows in set (0.00 sec)
```

mysql> select * from orders;

```
+------+---------+------------+------+------+
| onum | amt     | odate      | cnum | snum |
+------+---------+------------+------+------+
| 3001 |   18.69 | 1990-10-03 | 2008 | 1007 |
| 3003 |  767.19 | 1990-10-03 | 2001 | 1001 |
| 3002 | 1900.10 | 1990-10-03 | 2007 | 1004 |
| 3005 | 5160.45 | 1990-10-03 | 2003 | 1002 |
| 3006 | 1098.16 | 1990-10-03 | 2008 | 1007 |
| 3009 | 1713.23 | 1990-10-04 | 2002 | 1003 |
| 3007 |   75.75 | 1990-10-04 | 2004 | 1002 |
| 3008 | 4723.00 | 1990-10-04 | 2006 | 1001 |
| 3010 |  309.95 | 1990-10-04 | 2004 | 1002 |
| 3011 | 9891.88 | 1990-10-04 | 2006 | 1001 |
+------+---------+------------+------+------+
10 rows in set (0.00 sec)
```

2. How many customers are present in the database?

mysql> select * from customers;

```
+------+----------+----------+--------+------+
| cnum | cname    | city     | rating | snum |
+------+----------+----------+--------+------+
| 2001 | Hoffman  | London   |    100 | 1001 |
| 2002 | Giovanni | Rome     |    200 | 1003 |
| 2003 | Liu      | San Jose |    200 | 1002 |
| 2004 | Grass    | Berlin   |    300 | 1002 |
| 2006 | Clemens  | London   |    100 | 1001 |
| 2008 | Cisneros | San Jose |    300 | 1007 |
| 2007 | Pereira  | Rome     |    100 | 1004 |
+------+----------+----------+--------+------+
7 rows in set (0.00 sec)
```

3. How many salespeople are present in the database?

mysql> select * from salespeople;

```
+------+---------+-----------+------+
| snum | sname   | city      | comm |
+------+---------+-----------+------+
| 1001 | Peel    | London    | 0.12 |
| 1002 | Serres  | San Jose  | 0.13 |
| 1004 | Motika  | London    | 0.11 |
| 1007 | Rifkin  | Barcelona | 0.15 |
| 1003 | Axelrod | New York  | 0.10 |
+------+---------+-----------+------+
```

4. On which date order with highest amount is placed?

mysql> select * from orders;

```
+------+---------+------------+------+------+
| onum | amt     | odate      | cnum | snum |
+------+---------+------------+------+------+
| 3001 |   18.69 | 1990-10-03 | 2008 | 1007 |
| 3003 |  767.19 | 1990-10-03 | 2001 | 1001 |
| 3002 | 1900.10 | 1990-10-03 | 2007 | 1004 |
| 3005 | 5160.45 | 1990-10-03 | 2003 | 1002 |
| 3006 | 1098.16 | 1990-10-03 | 2008 | 1007 |
| 3009 | 1713.23 | 1990-10-04 | 2002 | 1003 |
| 3007 |   75.75 | 1990-10-04 | 2004 | 1002 |
| 3008 | 4723.00 | 1990-10-04 | 2006 | 1001 |
| 3010 |  309.95 | 1990-10-04 | 2004 | 1002 |
| 3011 | 9891.88 | 1990-10-04 | 2006 | 1001 |
+------+---------+------------+------+------+
10 rows in set (0.00 sec)
```

mysql> SELECT * FROM orders ORDER BY amt DESC;

```
+------+---------+------------+------+------+
| onum | amt     | odate      | cnum | snum |
+------+---------+------------+------+------+
| 3011 | 9891.88 | 1990-10-04 | 2006 | 1001 |
| 3005 | 5160.45 | 1990-10-03 | 2003 | 1002 |
| 3008 | 4723.00 | 1990-10-04 | 2006 | 1001 |
| 3002 | 1900.10 | 1990-10-03 | 2007 | 1004 |
| 3009 | 1713.23 | 1990-10-04 | 2002 | 1003 |
| 3006 | 1098.16 | 1990-10-03 | 2008 | 1007 |
| 3003 |  767.19 | 1990-10-03 | 2001 | 1001 |
| 3010 |  309.95 | 1990-10-04 | 2004 | 1002 |
| 3007 |   75.75 | 1990-10-04 | 2004 | 1002 |
| 3001 |   18.69 | 1990-10-03 | 2008 | 1007 |
+------+---------+------------+------+------+
10 rows in set (0.00 sec)
```

mysql> SELECT * FROM orders ORDER BY amt DESC LIMIT 1;

```
+------+---------+------------+------+------+
| onum | amt     | odate      | cnum | snum |
```

```
+------+---------+------------+------+------+
| 3011 | 9891.88 | 1990-10-04 | 2006 | 1001 |
+------+---------+------------+------+------+
1 row in set (0.00 sec)
```

mysql> SELECT odate FROM orders ORDER BY amt DESC LIMIT 1;

```
+------------+
| odate      |
+------------+
| 1990-10-04 |
+------------+
```

9. What is name of customer and salesman of the maximum amount order?

mysql> SELECT * from orders ORDER BY amt LIMIT 1;

```
+------+-------+------------+------+------+
| onum | amt   | odate      | cnum | snum |
+------+-------+------------+------+------+
| 3001 | 18.69 | 1990-10-03 | 2008 | 1007 |
+------+-------+------------+------+------+
```

10.Study relationship between the tables in sales database.

mysql> select * from salespeople;

```
+------+---------+-----------+------+
| snum | sname   | city      | comm |
+------+---------+-----------+------+
| 1001 | Peel    | London    | 0.12 |
| 1002 | Serres  | San Jose  | 0.13 |
| 1004 | Motika  | London    | 0.11 |
| 1007 | Rifkin  | Barcelona | 0.15 |
| 1003 | Axelrod | New York  | 0.10 |
+------+---------+-----------+------+
```