```
      -> ^C
mysql> select * from products where price>(select avg(price),productname from products group by productname);
ERROR 1241 (21000): Operand should contain 1 column(s)
mysql> select * from products where price>(select avg(price) from products group by productname);
ERROR 1242 (21000): Subquery returns more than 1 row
mysql> select * from products where price>(select avg(price) from products);
+-----------+-------------+-------------+---------+
| ProductID | ProductName | Category    | Price   |
+-----------+-------------+-------------+---------+
|         1 | Laptop      | Electronics | 1200.00 |
+-----------+-------------+-------------+---------+
1 row in set (0.00 sec)

mysql>
mysql> select count(catagories) from products;
ERROR 1054 (42S22): Unknown column 'catagories' in 'field list'
mysql> select count(category) from products;
+-----------------+
| count(category) |
+-----------------+
|              10 |
+-----------------+
1 row in set (0.00 sec)

mysql> select count(category),category from products
    -> ;
ERROR 1140 (42000): In aggregated query without GROUP BY, expression #2 of SELECT list contains nonaggregated column 'python_
september.products.Category'; this is incompatible with sql_mode=only_full_group_by
mysql> select count(category),category from products group by category;
+-----------------+-------------+
| count(category) | category    |
+-----------------+-------------+
|               2 | Electronics |
|               2 | Furniture   |
|               2 | Clothing    |
|               2 | Appliances  |
|               2 | Accessories |
+-----------------+-------------+
the right syntax to use near 'where (select count(category),category from products group by INSERT INTO Produc' at li
mysql> select count(category),category from products group by category;
+-----------------+-------------+
| count(category) | category    |
+-----------------+-------------+
|               2 | Electronics |
|               2 | Furniture   |
|               2 | Clothing    |
|               2 | Appliances  |
|               2 | Accessories |
+-----------------+-------------+
5 rows in set (0.00 sec)

mysql> select sum(price),category from products group by category having sum(price)>500;
+------------+-------------+
| sum(price) | category    |
+------------+-------------+
|    1250.00 | Electronics |
+------------+-------------+
1 row in set (0.00 sec)

mysql> select * from products where price>(select avg(price) from products);
+-----------+-------------+-------------+---------+
| ProductID | ProductName | Category    | Price   |
+-----------+-------------+-------------+---------+
|         1 | Laptop      | Electronics | 1200.00 |
+-----------+-------------+-------------+---------+
1 row in set (0.00 sec)

mysql> select * from products where price>(select min(price) from products group by price having category='clothing');
```

```
mysql> select sum(price),category from products group by category having sum(price)>500;
+------------+-------------+
| sum(price) | category    |
+------------+-------------+
|    1250.00 | Electronics |
+------------+-------------+
1 row in set (0.00 sec)

mysql> select * from products where price>(select avg(price) from products);
+-----------+-------------+-------------+---------+
| ProductID | ProductName | Category    | Price   |
+-----------+-------------+-------------+---------+
|         1 | Laptop      | Electronics | 1200.00 |
+-----------+-------------+-------------+---------+
1 row in set (0.00 sec)
    -> FROM Products
    -> WHERE Price > (SELECT AVG(Price) FROM Products p2 WHERE p2.Category = Products.Category);
+-----------+---------------+-------------+---------+
| ProductID | ProductName   | Category    | Price   |
+-----------+---------------+-------------+---------+
|         1 | Laptop        | Electronics | 1200.00 |
|         3 | Desk Chair    | Furniture   |  150.00 |
|         5 | Running Shoes | Clothing    |   75.00 |
|         8 | Microwave     | Appliances  |  120.00 |
|        10 | Watch         | Accessories |  100.00 |
+-----------+---------------+-------------+---------+
5 rows in set (0.00 sec)

mysql> select * from products where price>(select min(price) from products;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version
right syntax to use near '' at line 1
mysql> select * from products where price>(select min(price) from products);
+-----------+----------------+-------------+---------+
| ProductID | ProductName    | Category    | Price   |
+-----------+----------------+-------------+---------+
|         1 | Laptop         | Electronics | 1200.00 |
|         2 | Headphones     | Electronics |   50.00 |
|         3 | Desk Chair     | Furniture   |  150.00 |
|         4 | Coffee Table   | Furniture   |   80.00 |
|         5 | Running Shoes  | Clothing    |   75.00 |
|         7 | Kitchen Blender| Appliances  |   40.00 |
|         8 | Microwave      | Appliances  |  120.00 |
|         9 | Backpack       | Accessories |   30.00 |
|        10 | Watch          | Accessories |  100.00 |
+-----------+----------------+-------------+---------+
9 rows in set (0.00 sec)
```

```
mysql> select * from products where price>(select min(price) from products where catagory='clothing');
ERROR 1054 (42S22): Unknown column 'catagory' in 'where clause'
mysql> select * from products where price>(select min(price) from products where category='clothing');
+-----------+----------------+-------------+---------+
| ProductID | ProductName    | Category    | Price   |
+-----------+----------------+-------------+---------+
|         1 | Laptop         | Electronics | 1200.00 |
|         2 | Headphones     | Electronics |   50.00 |
|         3 | Desk Chair     | Furniture   |  150.00 |
|         4 | Coffee Table   | Furniture   |   80.00 |
|         5 | Running Shoes  | Clothing    |   75.00 |
|         7 | Kitchen Blender| Appliances  |   40.00 |
|         8 | Microwave      | Appliances  |  120.00 |
|         9 | Backpack       | Accessories |   30.00 |
|        10 | Watch          | Accessories |  100.00 |
+-----------+----------------+-------------+---------+
9 rows in set (0.00 sec)

mysql> SELECT *
    -> FROM Products
    -> WHERE Price > (SELECT MIN(Price) FROM Products WHERE Category = 'Clothing');
+-----------+----------------+-------------+---------+
| ProductID | ProductName    | Category    | Price   |
+-----------+----------------+-------------+---------+
|         1 | Laptop         | Electronics | 1200.00 |
|         2 | Headphones     | Electronics |   50.00 |
|         3 | Desk Chair     | Furniture   |  150.00 |
|         4 | Coffee Table   | Furniture   |   80.00 |
|         5 | Running Shoes  | Clothing    |   75.00 |
|         7 | Kitchen Blender| Appliances  |   40.00 |
|         8 | Microwave      | Appliances  |  120.00 |
|         9 | Backpack       | Accessories |   30.00 |
|        10 | Watch          | Accessories |  100.00 |
+-----------+----------------+-------------+---------+
9 rows in set (0.00 sec)

mysql> select avg(price),category from products group by category having max(avg(price));
ERROR 1111 (HY000): Invalid use of group function
mysql> select avg(price),category from products group by category having price>avg(price);
ERROR 1054 (42S22): Unknown column 'price' in 'having clause'
mysql> select avg(price),category from products group by category order by avg(price) desc limit 1;
+------------+-------------+
| avg(price) | category    |
+------------+-------------+
| 625.000000 | Electronics |
+------------+-------------+
```

```
mysql> select * from products;
+-----------+----------------+-------------+---------+
| ProductID | ProductName    | Category    | Price   |
+-----------+----------------+-------------+---------+
|         1 | Laptop         | Electronics | 1200.00 |
|         2 | Headphones     | Electronics |   50.00 |
|         3 | Desk Chair     | Furniture   |  150.00 |
|         4 | Coffee Table   | Furniture   |   80.00 |
|         5 | Running Shoes  | Clothing    |   75.00 |
|         6 | T-shirt        | Clothing    |   20.00 |
|         7 | Kitchen Blender| Appliances  |   40.00 |
|         8 | Microwave      | Appliances  |  120.00 |
|         9 | Backpack       | Accessories |   30.00 |
|        10 | Watch          | Accessories |  100.00 |
+-----------+----------------+-------------+---------+
10 rows in set (0.00 sec)

mysql> select count(productid),category from products group by category having price<50;
ERROR 1054 (42S22): Unknown column 'price' in 'having clause'
mysql> select count(productid),category,price from products group by category having price<50;
ERROR 1055 (42000): Expression #3 of SELECT list is not in GROUP BY clause and contains nonaggregated column 'python_septe
oducts.Price' which is not functionally dependent on columns in GROUP BY clause; this is incompatible with sql_mode=only_f
up_by
mysql> select count(productid),category,price from products group by category having price<50.00;
ERROR 1055 (42000): Expression #3 of SELECT list is not in GROUP BY clause and contains nonaggregated column 'python_septe
oducts.Price' which is not functionally dependent on columns in GROUP BY clause; this is incompatible with sql_mode=only_f
up_by
mysql> select count(productid) from products where price<50;
+------------------+
| count(productid) |
+------------------+
|                3 |
+------------------+
1 row in set (0.01 sec)

mysql> select * from products where price>(select avg(price) from products);
+-----------+-------------+-------------+---------+
| ProductID | ProductName | Category    | Price   |
+-----------+-------------+-------------+---------+
|         1 | Laptop      | Electronics | 1200.00 |
+-----------+-------------+-------------+---------+

mysql> select count(category),category from products group by category order by count(category) desc limit 1;
+-----------------+-------------+
| count(category) | category    |
+-----------------+-------------+
|               2 | Electronics |
+-----------------+-------------+
1 row in set (0.01 sec)

mysql> select count(category),category from products group by category order by count(category) desc;
+-----------------+-------------+
| count(category) | category    |
+-----------------+-------------+
|               2 | Electronics |
|               2 | Furniture   |
|               2 | Clothing    |
|               2 | Appliances  |
|               2 | Accessories |
+-----------------+-------------+
5 rows in set (0.00 sec)

mysql> select * from products where price>(select avg(price) from products where category='electronics');
+-----------+-------------+-------------+---------+
| ProductID | ProductName | Category    | Price   |
+-----------+-------------+-------------+---------+
|         1 | Laptop      | Electronics | 1200.00 |
+-----------+-------------+-------------+---------+
1 row in set (0.00 sec)
```

```
mysql> select * from products where category='furniture' order by price desc limit 1;
+-----------+-------------+-----------+--------+
| ProductID | ProductName | Category  | Price  |
+-----------+-------------+-----------+--------+
|         3 | Desk Chair  | Furniture | 150.00 |
+-----------+-------------+-----------+--------+
1 row in set (0.00 sec)

mysql> select * from products price>(select avg(price) from products where category='electronic');
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the
right syntax to use near '>(select avg(price) from products where category='electronic')' at line 1
mysql> select * from products price>(select avg(price) from products where category='electronics');
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the
right syntax to use near '>(select avg(price) from products where category='electronics')' at line 1
mysql> select * from products where price>(select avg(price) from products where category='electronics');
+-----------+-------------+-------------+---------+
| ProductID | ProductName | Category    | Price   |
+-----------+-------------+-------------+---------+
|         1 | Laptop      | Electronics | 1200.00 |
+-----------+-------------+-------------+---------+
1 row in set (0.00 sec)

mysql> select count(productid) from products where price>(select avg(price) from products);
+------------------+
| count(productid) |
+------------------+
|                1 |
+------------------+
1 row in set (0.00 sec)

mysql> select category, count(*) as productcount
    -> from products
    -> where price > 100
    -> group by category
    -> having count(*) > 3;
Empty set (0.00 sec)

mysql> select * from products where price>(select avg(price) from products where category='accessories');
+-----------+--------------+-------------+---------+
| ProductID | ProductName  | Category    | Price   |
+-----------+--------------+-------------+---------+
|         1 | Laptop       | Electronics | 1200.00 |
|         3 | Desk Chair   | Furniture   |  150.00 |
|         4 | Coffee Table | Furniture   |   80.00 |
|         5 | Running Shoes| Clothing    |   75.00 |
|         8 | Microwave    | Appliances  |  120.00 |
```

```
mysql> select count(productid) from products where price>(select avg(price) from products);
+------------------+
| count(productid) |
+------------------+
|                1 |
+------------------+
1 row in set (0.00 sec)

mysql> select category, count(*) as productcount_
```