

```
CREATE DATABASE scom;
```

```
USE scom;
```

```
SET SQL_SAFE_UPDATES = 0;
```

```
CREATE TABLE category (  
    category_id INT AUTO_INCREMENT PRIMARY KEY,  
    category_name VARCHAR(255) NOT NULL,  
    avg_price_in_category INT NOT NULL,  
    no_of_products INT NOT NULL,  
    in_stock tinyint  
);  
# 1 INSERT QUERY  
INSERT INTO category  
(category_name,avg_price_in_category,no_of_products,in_stock)  
VALUES  
("Smart Phones",10000,1000,0),  
("Mens Clothing",1000,20000,1),  
("Toys",200,50000,0),  
("Electronics",3000,90000,1),  
("Food",200,1000,0),  
("Medicines",200,2000000,1),  
("Pet Food",500,100000,1);
```

```
SELECT * FROM category;
```

```
mysql> USE scom;  
Database changed  
mysql> SET SQL_SAFE_UPDATES = 0;  
Query OK, 0 rows affected (0.01 sec)  
  
mysql> CREATE TABLE category (  
-> category_id INT AUTO_INCREMENT PRIMARY KEY,  
-> category_name VARCHAR(255) NOT NULL,  
-> avg_price_in_category INT NOT NULL,  
-> no_of_products INT NOT NULL,  
-> in_stock tinyint  
-> );  
Query OK, 0 rows affected (0.13 sec)  
  
mysql> INSERT INTO category  
-> (category_name,avg_price_in_category,no_of_products,in_stock)  
-> VALUES  
-> ("Smart Phones",10000,1000,0),  
-> ("Mens Clothing",1000,20000,1),  
-> ("Toys",200,50000,0),  
-> ("Electronics",3000,90000,1),  
-> ("Food",200,1000,0),  
-> ("Medicines",200,2000000,1),  
-> ("Pet Food",500,100000,1);  
Query OK, 7 rows affected (0.04 sec)  
Records: 7 Duplicates: 0 Warnings: 0  
  
mysql> SELECT * FROM category;  
+-----+-----+-----+-----+-----+  
| category_id | category_name | avg_price_in_category | no_of_products | in_stock |  
+-----+-----+-----+-----+-----+  
| 1 | Smart Phones | 10000 | 1000 | 0 |  
| 2 | Mens Clothing | 1000 | 20000 | 1 |  
| 3 | Toys | 200 | 50000 | 0 |  
| 4 | Electronics | 3000 | 90000 | 1 |  
| 5 | Food | 200 | 1000 | 0 |  
| 6 | Medicines | 200 | 2000000 | 1 |  
| 7 | Pet Food | 500 | 100000 | 1 |  
+-----+-----+-----+-----+-----+  
7 rows in set (0.43 sec)
```

```
# select with group by
SELECT in_stock,COUNT(in_stock) AS total_no_of_products
FROM category
GROUP BY in_stock ORDER BY total_no_of_products ASC;
```

```
mysql> SELECT in_stock,COUNT(in_stock) AS total_no_of_products
-> FROM category
-> GROUP BY in_stock ORDER BY total_no_of_products ASC;
+-----+-----+
| in_stock | total_no_of_products |
+-----+-----+
| 0 | 3 |
| 1 | 4 |
+-----+-----+
2 rows in set (0.02 sec)
```

```
# select with group by and sum
SELECT in_stock,COUNT(in_stock) AS total_no_of_products,
SUM(no_of_products) AS products_qantitiy
FROM category
GROUP BY in_stock ORDER BY total_no_of_products ASC;
```

```
# select with group by and sum
SELECT in_stock,COUNT(in_stock) AS total_no_of_products,
SUM(no_of_products) AS products_qantitiy, AVG(avg_price_in_category)
as avg_of_avg_price_in_category
FROM category
GROUP BY in_stock ORDER BY total_no_of_products ASC;
```

```
mysql> SELECT in_stock,COUNT(in_stock) AS total_no_of_products, SUM(no_of_products) AS products_qantitiy, AVG(avg_price_in_category) as avg_of_avg_price_in_
category
-> FROM category
-> GROUP BY in_stock
-> HAVING total_no_of_products>3
-> ORDER BY total_no_of_products ASC;
+-----+-----+-----+-----+
| in_stock | total_no_of_products | products_qantitiy | avg_of_avg_price_in_category |
+-----+-----+-----+-----+
| 1 | 4 | 2210000 | 1175.0000 |
+-----+-----+-----+-----+
1 row in set (0.01 sec)
```

```
# group by with having
SELECT in_stock,COUNT(in_stock) AS total_no_of_products,
SUM(no_of_products) AS products_qantitiy, AVG(avg_price_in_category)
as avg_of_avg_price_in_category
FROM category
GROUP BY in_stock
HAVING total_no_of_products>3
ORDER BY total_no_of_products ASC;
```

```
mysql> SELECT in_stock,COUNT(in_stock) AS total_no_of_products, SUM(no_of_products) AS products_qantitiy, AVG(avg_price_in_category) as avg_of_avg_price_in_category
-> FROM category
-> GROUP BY in_stock ORDER BY total_no_of_products ASC;
```

in_stock	total_no_of_products	products_qantitiy	avg_of_avg_price_in_category
0	3	52000	3466.6667
1	4	2210000	1175.0000

2 rows in set (0.00 sec)