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Assignment 5

```
mysql> CREATE DATABASE ASSIGNMENT5;
```

```
Query OK, 1 row affected (0.03 sec)
```

```
mysql> use ASSIGNMENT5;
```

```
Database changed
```

```
mysql> create table sales(
```

```
    -> OrderID int primary key,
```

```
    -> Date date,
```

```
    -> Price int,
```

```
    -> Quantity int,
```

```
    -> CustomerName varchar(10));
```

```
Query OK, 0 rows affected (0.04 sec)
```

```
mysql> insert into sales
```

```
    -> values
```

```
    -> (1, '20051222', 160, 2, 'Smith'),
```

```
    -> (2, '20050810', 190, 3, 'Johnson'),
```

```
    -> (3, '20050713', 500, 5, 'Baldwin'),
```

```
    -> (4, '20050715', 420, 2, 'Smith'),
```

```
    -> (5, '20051222', 1000, 4, 'Wood'),
```

```
    -> (6, '20051102', 820, 4, 'Smith'),
```

```
    -> (7, '20051103', 2000, 2, 'Baldwin');
```

```
Query OK, 7 rows affected (0.01 sec)
```

```
Records: 7  Duplicates: 0  Warnings: 0
```

```
mysql> select * from sales;
```

```
+-----+-----+-----+-----+-----+
| OrderID | Date       | Price | Quantity | CustomerName |
+-----+-----+-----+-----+-----+
|      1 | 2005-12-22 |    160 |         2 | Smith        |
|      2 | 2005-08-10 |    190 |         3 | Johnson      |
```

3	2005-07-13	500	5	Baldwin
4	2005-07-15	420	2	Smith
5	2005-12-22	1000	4	Wood
6	2005-11-02	820	4	Smith
7	2005-11-03	2000	2	Baldwin

7 rows in set (0.00 sec)

```
mysql> select count(*) from sales where CustomerName='Smith';
```

count(*)
3

1 row in set (0.00 sec)

Query 1. Count how many orders have made a customer with CustomerName of Smith.

```
mysql> select count(distinct CustomerName) from sales;
```

count(distinct CustomerName)
4

1 row in set (0.01 sec)

Query 2. Find number of unique customers that have ordered from the store.

```
mysql> select count(Quantity) from sales;
```

count(Quantity)
7

1 row in set (0.00 sec)

Query 3. Find out total no. of items ordered by all the customers.

```
mysql> select sum(Quantity) from sales;
```

```
+-----+
| sum(Quantity) |
+-----+
|           22 |
+-----+
1 row in set (0.00 sec)
```

Query 4. Find out average number of items per order.

```
mysql> select avg(Quantity) from sales;
```

```
+-----+
| avg(Quantity) |
+-----+
|       3.1429 |
+-----+
1 row in set (0.00 sec)
```

Query 5. Find out the average Quantity for all orders with Price greater than 200.

```
mysql> select avg(Quantity) from sales where Price>200;
```

```
+-----+
| avg(Quantity) |
+-----+
|       3.4000 |
+-----+
1 row in set (0.01 sec)
```

Query 6. Find out what was the minimum price paid for any of the orders.

```
mysql> select min(Price) from sales;
+-----+
| min(Price) |
+-----+
|          160 |
+-----+
1 row in set (0.00 sec)
```

Query 7. Find out the highest Price form the given sales table.

```
mysql> select max(Price) from sales;
+-----+
| max(Price) |
+-----+
|          2000 |
+-----+
1 row in set (0.00 sec)
```

Query 8. List out unique customers name only from the table.

```
mysql> select distinct CustomerName from sales;
+-----+
| CustomerName |
+-----+
| Smith        |
| Johnson      |
| Baldwin      |
| Wood         |
+-----+
4 rows in set (0.01 sec)
```

Query 9. List out name of the customers who have given order in the month of December.

```
mysql> select CustomerName from sales where Date like '%-12-%';
+-----+
| CustomerName |
+-----+
| Smith        |
| Wood         |
+-----+
2 rows in set (0.01 sec)
```

Query 10. Find out the total amount of money spent for each of the customers.

```
mysql> select CustomerName, sum(Price) from sales group by CustomerName;
+-----+-----+
| CustomerName | sum(Price) |
+-----+-----+
| Smith        | 1400       |
| Johnson      | 190        |
| Baldwin      | 2500       |
| Wood         | 1000       |
+-----+-----+
4 rows in set (0.00 sec)
```

Query 11. Select all unique customers who have spent more than 1200 in the store.

```
mysql> select CustomerName, sum(Price) from sales group by CustomerName having
sum(Price) > 1200;
+-----+-----+
| CustomerName | sum(Price) |
+-----+-----+
| Smith        | 1400       |
| Baldwin      | 2500       |
+-----+-----+
2 rows in set (0.01 sec)
```

Query 12. Select all customers that have ordered more than 5 items in total from all their orders.

```
mysql> select CustomerName, sum(Quantity) from sales group by CustomerName having sum(Quantity) > 5;
```

```
+-----+-----+
| CustomerName | sum(Quantity) |
+-----+-----+
| Smith        | 8             |
| Baldwin      | 7             |
+-----+-----+
2 rows in set (0.00 sec)
```

Query 13. Select all customers who have spent more than 1000, after 10/01/2005.

```
mysql> select CustomerName, sum(Price), Date from sales where Date > '2005-01-10' group by CustomerName having sum(Price) > 5;
```

```
+-----+-----+-----+
| CustomerName | sum(Price) | Date       |
+-----+-----+-----+
| Smith        | 1400       | 2005-12-22 |
| Johnson      | 190        | 2005-08-10 |
| Baldwin      | 2500       | 2005-07-13 |
| Wood         | 1000       | 2005-12-22 |
+-----+-----+-----+
4 rows in set (0.01 sec)
```

Query 14. Select orders in increasing order of order price.

```
mysql> select * from sales order by Price;
```

```
+-----+-----+-----+-----+-----+
| OrderID | Date       | Price | Quantity | CustomerName |
+-----+-----+-----+-----+-----+
| 1       | 2005-12-22 | 160   | 2        | Smith        |
| 2       | 2005-08-10 | 190   | 3        | Johnson      |
```

4	2005-07-15	420	2	Smith
3	2005-07-13	500	5	Baldwin
6	2005-11-02	820	4	Smith
5	2005-12-22	1000	4	Wood
7	2005-11-03	2000	2	Baldwin

7 rows in set (0.01 sec)

Query 15. Select orders in decreasing order of order price.

```
mysql> select * from sales order by Price desc;
```

OrderID	Date	Price	Quantity	CustomerName
7	2005-11-03	2000	2	Baldwin
5	2005-12-22	1000	4	Wood
6	2005-11-02	820	4	Smith
3	2005-07-13	500	5	Baldwin
4	2005-07-15	420	2	Smith
2	2005-08-10	190	3	Johnson
1	2005-12-22	160	2	Smith

7 rows in set (0.00 sec)