Assignment-6

Submitted by: Tanmay Vig

Roll Number: 19BCS061

Batch: 2nd year CSE

Table sales:

_	L	. – – – – – – – – .			
	orderID	orderDate	orderPrice	orderQuantity	costumerName
-	++		+		+
	1	2005-12-22	160	2	Smith
	2	2005-08-10	190	2	Johnson
	3	2005-07-13	500	5	Baldwin
	4	2005-07-15	420	2	Smith
	5	2005-12-22	1000	4	Wood
	6	2005-10-02	820	4	Smith
	7	2005-11-03	2000	2	Baldwin
	L				L

Query for creating the above table:

```
mysql> CREATE TABLE sales(
    -> orderID INT.
    -> orderDate DATE,
    -> orderPrice INT,
    -> orderQuantity INT,
    -> costumerName VARCHAR(10)
    -> );
Query OK, 0 rows affected (0.06 sec)
mysql> INSERT INTO sales
    -> VALUES
    -> (1,'2005-12-22',160,2,'Smith'),
    -> (2,'2005-08-10',190,2,'Johnson'),
    -> (3,'2005-07-13',500,5,'Baldwin'),
    -> (4,'2005-07-15',420,2,'Smith'),
    -> (5,'2005-12-22',1000,4,'Wood'),
    -> (6,'2005-10-02',820,4,'Smith'),
    -> (7,'2005-11-03',2000,2,'Baldwin');
Query OK, 7 rows affected (0.02 sec)
Records: 7 Duplicates: 0 Warnings: 0
mysql> SELECT * FROM sales;
```

++	+		+	++				
				costumerName				
++	+		+	++				
1	2005-12-22	160	2	Smith				
2	2005-08-10	190	2	Johnson				
3	2005-07-13	500	5	Baldwin				
4	2005-07-15	420	2	Smith				
5	2005-12-22	1000	4	Wood				
6	2005-10-02	820	4	Smith				
7	2005-11-03	2000	2	Baldwin				
++	+		+	++				
7 rows in set (0.01 sec)								

7 rows in set (0.01 sec)

Solve the following queries using Aggregate Function for above table:

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

Answer:

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

Answer:

1 row in set (0.00 sec)

mysql> SELECT COUNT(DISTINCT costumerName) Unique_Costumers FROM sales;
+-----+
| Unique_Costumers |
+-----+
| 4 |
+------+

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

Answer:

```
mysql> SELECT SUM(orderQuantity) Total_Items FROM sales;
+-----+
| Total_Items |
+-----+
| 21 |
+-----+
1 row in set (0.00 sec)
```

4. Find out average number of items per order.

Answer:

```
mysql> SELECT AVG(orderQuantity) FROM sales;
+-----+
| AVG(orderQuantity) |
+-----+
| 3.0000 |
+-----+
1 row in set (0.00 sec)
```

5. Find out the average OrderQuantity for all orders with Order Price greater than 200.

Answer:

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

Answer:

```
mysql> SELECT MIN(orderPrice) FROM sales;
```

```
+----+
| MIN(orderPrice) |
+----+
| 160 |
+----+
1 row in set (0.00 sec)
```

7. Find out the highest OrderPrice form the given sales table.

Answer:

```
mysql> SELECT MAX(orderPrice) FROM sales;
+-----+
| MAX(orderPrice) |
+-----+
| 2000 |
+-----+
1 row in set (0.00 sec)
```

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

Answer:

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

Answer:

```
mysql> SELECT costumerName, orderDate FROM sales
    -> WHERE month(orderDate)=12;
```

```
+----+
| costumerName | orderDate |
+----+
| Smith | 2005-12-22 |
| wood | 2005-12-22 |
+----+
2 rows in set (0.01 sec)
```

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

Answer:

```
mysql> SELECT costumerName, SUM(orderPrice) FROM sales
  -> GROUP BY costumerName;
 ------
| costumerName | SUM(orderPrice) |
+-----+
| Smith
        1400 |
| Johnson |
                   190 |
| Baldwin |
             2500 |
| Wood
                  1000 |
+-----
4 rows in set (0.00 sec)
```

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

Answer:

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

Answer:

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

Answer:

2 rows in set (0.00 sec)

14. Select orders in increasing order of order price.

Answer:

7 rows in set (0.00 sec)

7 rows in set (0.00 sec)

15. Select orders in decreasing order of order price.

Answer:

```
mysql> SELECT * FROM sales
  -> ORDER BY orderPrice DESC;
+----+
| orderID | orderDate | orderPrice | orderQuantity | costumerName |
+----+
| 7 | 2005-11-03 | 2000 | 2 | Baldwin |
 5 | 2005-12-22 | 1000 | 4 | Wood |
  6 | 2005-10-02 | 820 | 4 | Smith
  3 | 2005-07-13 | 500 | 5 | Baldwin
                         2 | Smith
   4 | 2005-07-15 | 420 |
                190 |
   2 | 2005-08-10 |
                          2 | Johnson
   1 | 2005-12-22 |
                160 |
                          2 | Smith
+----+
```