DBMS LAB ASSIGNMENT-5 20BCS009 ANZAL HUSAIN ABIDI

Create the table Sales and Write SQL queries for the following:

CREATION OF TABLE;

```
use database 20BCS009;
create table sales(
    orderID int,
    orderPate varchar(20),
    orderPrice float,
    orderQuantity int,
    customerName varchar(20)
    );

insert into sales values(1, '2005/12/22', 160, 2, 'Smith');
    insert into sales values(2, '2005/08/10', 190, 2, 'Johnson');
    insert into sales values(3, '2005/07/13', 500, 5, 'Baldwin');
    insert into sales values(4, '2005/07/15', 420, 2, 'Smith');
    insert into sales values(5, '2005/12/22', 1000, 4, 'Wood'); insert into sales
    values(6, '2005/10/02', 820, 4, 'Smith');
    insert into sales values(7, '2005/11/03', 2000, 2, 'Baldwin');
```

select * from sales;

orderID	orderDate	orderPrice	orderQuantity	customerName
1	2005/12/22	160	2	Smith
2	2005/08/10	190	2	Johnson
3	2005/07/13	500	5	Baldwin
4 j	2005/07/15	420	2	Smith
5 j	2005/12/22	1000	4	Wood
6 j	2005/10/02	820	4	Smith
7 j	2005/11/03	2000	2	Baldwin

EXERCISE:

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

select count(*),customerName from sales where customerName = 'Smith';

```
Output:

+-----+

| count(*) | customerName |

+-----+

| 3 | Smith |
```

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

select count(distinct customerName) from sales;

c) Find out the total number of items ordered by all the customers.

select sum(orderQuantity) from sales;

```
Output:

+-----+

| sum(orderQuantity) |

+-----+

| 21 |
```

d) Find out the average number of items per order.

select avg(orderQuantity) from sales;

e)Find out the average OrderQuantity for all orders with OrderPrice greater than 200.

select avg(orderQuantity) from sales where orderPrice > 200;

```
Output:

+-----+

| avg(orderQuantity) |

+-----+

| 3.4000 |
```

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

select min(orderPrice) from sales;

```
Output:

+-----+

| min(orderPrice) |

+-----+

| 160 |
```

g) Find out the highest OrderPrice form the given sales table.

select max(orderPrice) from sales;

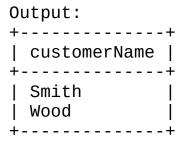
h)List out unique customers' names only from the table.

select distinct customerName from sales;

```
Output:
+-----+
| customerName |
+----+
| Smith |
| Johnson |
| Baldwin |
| Wood |
```

i)List the name of the customers who have given orders in the month of December.

select customerName from sales where orderDate like '%/12/%';



j)Find out the total amount of money spent on each of the customers.

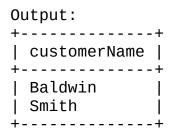
select sum(orderPrice), customerName from sales group by
customerName;

Output:

sum(orderPrice)	•
190	Baldwin Johnson Smith

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

select CustomerName from sales group by CustomerName having sum(OrderPrice) > 1200;



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

select customerName, sum(orderQuantity) as sum from sales group by customerName having sum > 5;

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

select * from sales where orderDate > '2005/10/01' group by customerName
having sum(orderPrice) > 1000;

```
Output:
+-----+
| orderID | orderDate | orderPrice | orderQuantity | customerName |
```

+	+		+		-+	+		-+
1	7	2005/11/03		2000		2	Baldwin	1
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n) Select orders in increasing order of order price.

select * from sales order by orderPrice asc;

Output:

+	orderDate		orderQuantity	 customerName
1 2 4 3 6 5	2005/12/22 2005/08/10 2005/07/15 2005/07/13 2005/10/02 2005/12/22 2005/11/03	160 190 420 500 820 1000	2 2 2 5 4 4 2	Smith Johnson Smith Baldwin Smith Wood Baldwin

o) Select orders in decreasing order of order price.

select * from sales order by orderPrice desc;

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	orderID	orderDate	orderPrice	orderQuantity	customerName
+	+			·	++
-	/	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
	4	2005/07/15	420	2	Smith
- 1	2	2005/08/10	190	2	Johnson
ĺ	1	2005/12/22	160	2	Smith
+		+ -		+	++