

# DBMS LAB ASSIGNMENT-5

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

## CREATION OF TABLE;

```
use database 20BCS009;
```

```
create table sales(  
    orderID int,  
    orderDate 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	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

**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;
```

Output:

count(distinct customerName)
4

**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;**

Output:

avg(orderQuantity)
3.0000

**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;**

Output:

max(orderPrice)
2000

**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/%';**

Output:

customerName
Smith
Wood

**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)	customerName
2500	Baldwin
190	Johnson
1400	Smith
1000	Wood

**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;**

Output:

+-----+	
customerName	
+-----+	
Baldwin	
Smith	
+-----+	

**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;**

Output:

+-----+-----+		
customerName	sum	
+-----+-----+		
Baldwin	7	
Smith	8	
+-----+-----+		

**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

	7	2005/11/03	2000	2	Baldwin	

**n) Select orders in increasing order of order price.**

```
select * from sales order by orderPrice asc;
```

Output:

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

**o) Select orders in decreasing order of order price.**

```
select * from sales order by orderPrice desc;
```

Output:

--	--	--	--	--

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