

## WORKSHEET 3 SQL

1. Write SQL query to create table **Customers**.

**ANS:**

```
CREATE TABLE Customers (  
  CustomerNumber int,  
  CustomerName varchar(255)  
  LastName varchar(255),  
  FirstName varchar(255),  
  phone int,  
  AddressLine1 varchar(255),  
  AddressLine2 varchar(255),  
  City varchar(255),  
  State varchar(255),  
  PostalCode int,  
  Country varchar(255),  
  SalesRepEmployeeNumber varchar(255),  
  CreditLimit varchar(255)  
);
```

2. Write SQL query to create table **Orders**.

**ANS:**

```
CREATE TABLE Orders (  
  OrderNumber int,  
  OrderDate varchar(255),  
  RequiredDate varchar(255),  
  shippeddate varchar(255),  
  Status varchar(255),  
  Comments varchar(255),  
  CustomerNumber int  
);
```

3. Write SQL query to show all the columns data from the **Orders** Table.

**ANS:** SELECT \* from Orders

4. Write SQL query to show all the comments from the **Orders** Table

**ANS:** SELECT Comments from Orders

5. Write a SQL query to show orderDate and Total number of orders placed on that date, from **Orders** table.

**ANS:** SELECT orderDate, count(orderDate) as numberoforders from orders group by orderDate

6. Write a SQL query to show employeeNumber, lastName, firstName of all the employees from **employees** table.

**ANS:** SELECT employeeNumber, lastName, firstName from employees

7. Write a SQL query to show all orderNumber, customerName of the person who placed the respective order.

**ANS:** SELECT orders.orderNumber, customers.customerName from orders left join customers on orders.customerNumber=customers.customerNumber

8. Write a SQL query to show name of all the customers in one column and salerepemployee name in another column.

**ANS:** SELECT customers.customerName, employees.firstname from customers left join employees on customers.salesRepEmployeeNumber=employees.employeeNumber

9. Write a SQL query to show Date in one column and total payment amount of the payments made on that date from the **payments** table.

**ANS:** SELECT paymentDate, sum(amount) from payments group by(paymentDate)

10. Write a SQL query to show all the products productName, MSRP, productDescription from the **products** table.

**ANS:** SELECT productName, MSRP, productDescription from products

11. Write a SQL query to print the productName, productDescription of the most ordered product.

**ANS:** SELECT products.productName, sum(orderdetails.quantityOrdered) as quantity from products,orderdetails where products.productCode=orderdetails.productCode group by products.productName order by quantity DESC limit 1

12. Write a SQL query to print the city name where maximum number of orders were placed.

**ANS:** SELECT customers.city, sum(orderdetails.quantityOrdered) as quantity from customers,orderdetails,orders where customers.customerNumber=orders.customerNumber and orders.orderNumber=orderdetails.orderNumber group by customers.city order by quantity DESC limit 1

13. Write a SQL query to get the name of the state having maximum number of customers.

**ANS:** SELECT state ,count(customerNumber) from customers group by state limit 1

14. Write a SQL query to print the employee number in one column and Full name of the employee in the second column for all the employees.

**ANS:** Select employeeNumber, concat(firstName,space(1),lastName) as employeename from employees

15. Write a SQL query to print the orderNumber, customer Name and total amount paid by the customer for that order (quantityOrdered × priceEach).

**ANS:** Select orders.orderNumber, customers.customerName, orderdetails.quantityOrdered \* orderdetails.priceEach as pricepaid from customers,orders,orderdetails where customers.customerNumber = orders.customerNumber and orders.orderNumber=orderdetails.orderNumber