Q1. Write SQL query to create table Customers

```
create table customers(customerNumber int(10) primary key,
customerName varchar(25) not null,
contactLastName varchar(25),
contactFirstName varchar(25) not null,
phone int(10) not null,
addressLine1 varchar(25) not null,
addressLine2 varchar(25),
city varchar(25) not null,
state varchar(25) not null,
postalCode int (10) not null,
country varchar(25) not null,
salesRepEmployeeNumber varchar(25),
creditLimit int(10));
```

2. Write SQL query to create table Orders.

```
create table orders(orderNumber int(10) primary key,
customerNumber int(10) not null,
orderDate date,
requiredDate date,
shippedDate date,
status varchar(100),
comments varchar(100),
CONSTRAINT fk_customerNumber FOREIGN KEY(customerNumber)
REFERENCES customers (customerNumber) on update cascade);
```

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

Select * from orders;

4. Write SQL query to show all the comments from the OrdersTable.

Select comments from orders;

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

select count(orderNumber), orderDate from orders group by orderDate;

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

select employeeNumber, lastName, firstName from employees;

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

```
select orders.orderNumber,customers.customerName
from orders inner 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 inanother column.

```
select employees.firstName ,customers.customerName
from employees
inner join customers on
employees.employeeNumber=customers.salesRepEmployeeNumber;
```

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.**

```
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.

```
select productName, MSRP, productDescription from products;
```

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

```
 select products.productName, products.productDescription from products
where
productCode =
(
select r from
 ( select max(p),
k as r from
( select
productCode as k,
sum(quantityOrdered) as p
from orderDetails
group by productCode
) as t
) as b
) ;
```

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

```
select max(p), t as city
from
(
select count(orderNumber) p , city t from
(
select customers.city,customers.customerNumber, orders.orderNumber
from orders
inner join customers on
orders.customerNumber= customers.customerNumber
 )as a
group by city
order by count(orderNumber) desc
)as b ;
```

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

```
Select  state from
(
select MAX(N), s as state from
(
select count(customerNumber)N, state S from customers
group by state
order by count(customerNumber) desc
)as d
) as b ;
```

SQ14 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.

```
select concat(firstName,' ',lastName) as fullName, employeeNumber 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).

```
select orders.orderNumber,
(orderDetails.quantityOrdered*orderDetails.priceEach) as amountPaid,
customers.customername from orders
join customers on
orders.customerNumber=customers.customerNumber
 join orderDetails on
orders.orderNumber=orderDetails.orderNumber
```