SQL MINI Project

Q.1: Write a SQL query to retrieve the first 5 rows from the "customers" table

Query:

```
show databases;
use classicmodals;
show tables;
select * from customers;
select * from customers limit 5;
```

Q.2: Write a SQL query to retrieve the unique city names from "customers" table sorted in descending order.

Query:

```
select distinct city from customers order by city desc;
```

Q.3: Write a SQL query to get the number of unique city names "offices" table.

Query:

```
show databases;
use classicmodals;
show tables;
select * from offices;
select count(distinct city) as uniquecities from offices;
```

Q.4: Write a SQL query to get the maximum, minimum and average value from the "age" column in the "customers" table.

Query:

```
select max(age) as MaximumAge, min(age) as MinimumAge, avg(age) as AverageAge from customers;
```

this query will not work and we get error as there is no column name as age

Q.5: Write a SQL query to get the city names which are present in "offices" table but not in "customer" table.

Query:

```
select city from offices where city not in (select city from customers where city is not null);
```

another approach using left join

```
select a.city from offices a
left join customers b
on b.city = a.city
where b.city is null;
```

Q.6: Write a SQL query to get the city names which are present in "offices" table as well as in "customer" table

Query:

```
select offices.city from offices
inner join customers
on offices.city = customers.city;
```

Q.7: Write a SQL query to get records where city or state is not given in "customer" table and creditlimit is in the range – 80000 to 130000.

Query:

```
select * from customers
where (city is null or state is null)
and creditlimit between 80000 and 130000;
```

Q.8: Write a SQL query to get the maximum number of orders placed on a particular date and what is that date in orders table.

Query:

```
select orderDate, count(orderNumber) AS MaxOrders
from orders
group by orderDate
order by MaxOrders desc
limit 1;
```

Q.9: For the records which we get in previous question(Q8), write a SQL query to get the customer names and their phone numbers.

Query:

```
select orderDate, count(orderNumber) as MaxOrders, min(customerName) as customerName,
min(phone) as phone

from orders

inner join customers

on orders.customerNumber = customers.customerNumber

group by orderDate

order by MaxOrders desc, orderDate desc

limit 1;
```

Q.10: SQL query to get the customer phone number and customer name from customers table where order is either cancelled or disputed in orders table.

Query:

```
select c.phone, c.customerName

from customers c

join orders o

on c.customerNumber = o.customerNumber

where o.status in ('cancelled', 'disputed');
```

Q.11: Write a SQL query to get the top 4 highest selling products from orderdetails table.

Query:

```
select productCode, SUM(quantityOrdered) AS TotalQuantity

from orderdetails

group by productCode

order by TotalQuantity desc

limit 4;
```

Q.12: Write a SQL query to get the count of orders placed by each customer in 2003 and 2004.

Query:

```
select customerNumber, COUNT(*) as OrderCount
from orders
where orderDate between '2003-01-01' and '2004-12-31'
group by customerNumber
order by OrderCount desc;
```

Q.13: Write a SQL query to get the city names from customer table where more than 4 customers reside.

Query:

```
select city, count(customerNumber) as Count
from customers
group by city
having count(customerNumber) > 4
order by Count desc;
```