WORKSHEET- 3 SQL

Question 1-Write SQL query to create table Customers.

```
mysql> create table customers (
    -> customerNumber int,
    -> customersName varchar(20),
    -> contactLastName varchar(10),
    -> contactFirstName varchar(10),
    -> phone int,
    -> addressLine1 varchar(30),
    -> addressLine2 varchar(20),
    -> city varchar (10),
    -> state varchar(15),
    -> postalCode int,
    -> country varchar(15),
    -> salesRepEmployeeNumber int,
    -> creditLimit int);
Query OK, 0 rows affected (1.80 sec)

mysql> show tables;
+--------------------+
| Tables_in_sqlsheet |
+--------------------+
| customers          |
+--------------------+
1 row in set (0.00 sec)
```

Question 2- Write SQL query to create table Orders.
Answer:

```
mysql> create table orders (
    -> orderNumber int,
    -> orderDate Date,
    -> requiredDate Date,
    -> shippedDate Date,
    -> status varchar (15),
    -> comments varchar (25),
    -> customerNumber int );
Query OK, 0 rows affected (0.56 sec)

mysql> show tables;
+--------------------+
| Tables_in_sqlsheet |
+--------------------+
| customers          |
| orders             |
+--------------------+
2 rows in set (0.00 sec)
```

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

```
mysql> desc customers;
+------------------------+-------------+------+-----+---------+-------+
| Field                  | Type        | Null | Key | Default | Extra |
+------------------------+-------------+------+-----+---------+-------+
| customerNumber         | int         | YES  |     | NULL    |       |
| customersName          | varchar(20) | YES  |     | NULL    |       |
| contactLastName        | varchar(10) | YES  |     | NULL    |       |
| contactFirstName       | varchar(10) | YES  |     | NULL    |       |
| phone                  | int         | YES  |     | NULL    |       |
| addressLine1           | varchar(30) | YES  |     | NULL    |       |
| addressLine2           | varchar(20) | YES  |     | NULL    |       |
| city                   | varchar(10) | YES  |     | NULL    |       |
| state                  | varchar(15) | YES  |     | NULL    |       |
| postalCode             | int         | YES  |     | NULL    |       |
| country                | varchar(15) | YES  |     | NULL    |       |
| salesRepEmployeeNumber | int         | YES  |     | NULL    |       |
| creditLimit            | int         | YES  |     | NULL    |       |
+------------------------+-------------+------+-----+---------+-------+
13 rows in set (0.05 sec)
```

Question 4--Write SQL query to show all the comments from the Orders Table.
Answer--> mysql> select comments from orders;

Question 5--Write a SQL query to show orderDate and Total number of orders placed on that date, from Orders table.
Answer-->mysql> select orderDate,sum(orderDate) from orders;

Question 6--Write a SQL query to show employeNumber, lastName, firstName of all the employees from employees table.
Answer--mysql> select employeNumber, lastName, firstName from employees;

Question 7--Write a SQL query to show all orderNumber, customerName of the person who placed the respective order.
Answer--mysql> select orderNumber from orders UNION select customersName from customers;

Question 8-Write a SQL query to show name of all the customers in one column and salerepemployee name in another column.
Answer-- mysql> select customersName, salesRepEmployeeNumber from employees;

Question 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.
Answer-- mysql> select paymentDate, sum(paymentDate) from payments;

Question 10--Write a SQL query to show all the products productName, MSRP, productDescription from the products table.
Answer--mysql> select productName, MSRP, productDescription from products;

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

Answer--mysql> SELECT productName, productDescription, COUNT(*) FROM products GROUP BY productName ORDER BY productName;

Question 12--Write a SQL query to print the city name where maximum number of orders were placed.
Answer--mysql> select city from orders inner join customer on city.customernumber=customers.customerNumber group by city Order by count(orderNumber) desc limit3;

Question 13--Write a SQL query to get the name of the state having maximum number of customers.
Answer--select state from customers group by state Order by Count(customerNumber) desc limit 3;

Question 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.
Answer--select employeeNumber,concat(FirstName,LastName) as 'Full Name' from Employees;

Question 15--Write a SQL query to print the orderNumber, customer Name and total amount paid by the customer for that order (quantityOrdered × priceEach).
Answer-- SELECT orderNumber, customerName, SUM(priceEach * quantityOrdered) total FROM orderDetails INNER JOIN customers USING (productCode) GROUP BY productCode
ORDER BY total;