ASSIGNMENT 2

1. D) Unique
2. C) Null
3. A) Each entry in the primary key uniquely identifies each entry or row in the table
4. A) There should not be any duplicate entries
5. B) Foreign Key
6. B) 1
7. C) one to many
8. B) one to one
9. A) delivery id
10. D) 2
11. B) many to one
12. C) Table
13. A) Insert in to
14. B) Unique, C) Primary Key
15. A) A blood group can contain one of the following values - A, B, AB and O.
    B) A blood group can only contain characters

ASSIGNMENT 3

1. SQL query to create table Customer

```
CREATE TABLE customers(
customerNumber int(10) NOT NULL,
customerName varchar(20) NOT NULL,
contactLastName varchar(25) NOT NULL,
contactFirstName varchar(25) NOT NULL,
phone varchar(10) NOT NULL,
addressLine1 varchar(50) NOT NULL,
addressLine2 varchar(50) DEFAULT NULL,
city varchar(10) NOT NULL,
state varchar(15) DEFAULT NULL,
postalCode varchar(10) DEFAULT NULL,
country varchar(25) NOT NULL,
salesRepEmployeeNumber  int(10) DEFAULT NULL,
creditLimit decimal(10,2) DEFAULT NULL
);
```

2. Write SQL query to create table Orders.

```
CREATE TABLE orders(
orderNumber int (11) NOT NULL,
orderDate date NOT NULL,
requiredDate date NOT NULL,
shippedDate date DEFAULT NULL,
status varchar(15) NOT NULL,
comments text,
customerNumber int(11) NOT NULL
);
```

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

```
SHOW * FROM orders;
```

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

```
SELECT comments FROM orders;
```

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

```
SELECT orderDate, count(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 in another column

   SELECT customerName, salesRepEmployeeNumber FROM customers;

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 productName, productDescription From products JOIN orderdetails WHERE products.productCode=orderdetails.productCode GROUP BY orderdetails.productCode HAVING count(orderdetails.productCode) ORDER BY count(orderdetails.productCode) DESC

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

    SELECT city FROM customers JOIN orders WHERE orders.customerNumber=customers.customerNumber GROUP by city having COUNT(city) order BY COUNT(city) DESC

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

    SELECT state FROM customers GROUP by state having COUNT(state) order BY COUNT(state) DESC

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

```
SELECT employeeNumber,  concat(firstName , lastName)  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 ,
customers.customerName,(orderdetails.quantityOrdered*orderdetails.priceEach) as Total
FROM  customers  JOIN  orderdetails WHERE
customers.customerNumber=orders.customerNumber AND
orderdetails.orderNumber=orders.orderNumber
```

ASSIGNMENT 3

1.