SQL Worksheet-3 (Internship-23, Konatala Mohit ID-34)

1.Write SQL query to create table Customers.

```
mysql> CREATE TABLE customer(customernumber INT(10) NOT NULL,
   -> customername VARCHAR(20) NOT NULL,
   -> contactLastName VARCHAR(20) NOT NULL,
   -> contactFirstName VARCHAR(20) NOT NULL,
   -> phone INT(10) NOT NULL,
   -> addressLine1 VARCHAR(50) NOT NULL,
   -> addressLine2 VARCHAR(50) NOT NULL,
   -> city VARCHAR(25) NOT NULL,
   -> state VARCHAR(25) NOT NULL,
   -> postalCode INT(6) NOT NULL,
   -> country VARCHAR(30) NOT NULL,
   -> salesRepEmployeeNumber INT(10) NOT NULL,
   -> creditLimit INT(6) NOT NULL,
   -> PRIMARY KEY(customernumber));
```

2. Write SQL query to create table Orders.

```
mysql> CREATE TABLE Orders(
   -> orderNumber INT(10) NOT NULL,
   -> orderDate INT(8) NOT NULL,
   -> requiredDate INT(8) NOT NULL,
   -> shippedDate INT(8) NOT NULL,
   -> status VARCHAR(6) NOT NULL,
   -> comments VARCHAR(50) NOT NULL,
   -> customerNumber INT(10) NOT NULL,
   -> PRIMARY KEY(orderNumber));
```

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

```
DESCRIBE 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 order Date and Total number of orders placed on that date, from Orders table.

```
SELECT orderDate,COUNT(*) FROM orders GROUP BY orderDate ORDER BY COUNT(*) DESC;
```

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, customer.customerName

FROM orders INNER JOIN customer ON orders.customerNumber=customer.customerNumber;
```

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

```
SELECT customerName FROM customer;

SELECT salerepemployee FROM customer;
```

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 orderDate, SUM(priceEach*quantityOrdered) FROM orderdetails

INNER JOIN products ON products.productCode=orderdetails.productCode

GROUP BY orderDate

UNION ALL;
```

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

GROUP BY productcode ORDER BY COUNT(*) DESC LIMIT 1 ;
```

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

```
SELECT city FROM customer

INNER JOIN orders ON customer.customerNumber=order.customerNumber

INNER JOIN  orderdetails ON order.orderNumber=orderdetails.orderNumber

GROUP BY quantityOrdered ORDER BY COUNT(*) DESC LIMIT 1;
```

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

SELECT state FROM customer GROUP BY state ORDER BY COUNT(*) DESC 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.

SELECT employeeNumber, firstName+ ' '+lastName as employeeName FROM employees.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 customerName, orderNumber , priceEach*quantityOrdered as totalamount FROM customer

INNER JOIN orders ON customer.customerNumber=orders.customerNumber

INNER JOIN orderdetails ON orders.orderNumber=orderdetails.orderNumber;