**WORKSHEET-3**

**SQL**

1. Write SQL query to create table Customers.

Answer: CREATE TABLE `customers` (

`customerNumber` int(11) NOT NULL AUTO\_INCREMENT,

`customerName` varchar(50),

`customerLastName` varchar(50),

`customerFirstName` varchar(50),

`phone` bigint(15),

`addressLine1` varchar(100),

`addressLine2` varchar(100),

`city` varchar(30),

`state` varchar(30),

`postalCode` int(6),

`country` varchar(50),

`salesRepEmployeeNumber` int(10),

`creditLimit` int(10),

PRIMARY KEY (`customerNumber`) USING BTREE

);

1. Write SQL query to create table Orders.

Answer: CREATE TABLE `orders` (

`orderNumber` int(11) NOT NULL AUTO\_INCREMENT,

`orderDate` datetime(0),

`requiredDate` datetime(0),

`shippedDate` datetime(0),

`status` varchar(50),

`comments` text,

`customerNumber` int(11) ,

PRIMARY KEY (`orderNumber`) USING BTREE

)

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

Answer: SELECT

orders.orderNumber,

orders.orderDate,

orders.requiredDate,

orders.shippedDate,

orders.`status`,

orders.comments,

orders.customerNumber

FROM

Orders

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

Answer: SELECT comments FROM orders

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

Answer: SELECT DATE( orderDate) as orderDate, COUNT( STATUS ) as count FROM orders GROUP BY orderDate

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

Answer: SELECT employeNumber, lastName, firstName FROM employees

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

Answer: SELECT

od.orderNumber,

cust.customerName

FROM

orders AS od ,

customers AS cust

WHERE

cust.customerNumber = od.customerNumber

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

Answer: SELECT

cust.customerName,

cust.salesRepEmployeeNumber,

CONCAT(emp.firstName,' ',emp.lastName) EmployeeName

FROM

customers AS cust ,

employees AS emp

WHERE

cust.salesRepEmployeeNumber = emp.employeeNumber

1. 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: SELECT

DATE( pay.paymentDate ) paymentDate,

SUM( pay.amount ) totalAmount

FROM

payments pay

GROUP BY

DATE( pay.paymentDate )

1. Write a SQL query to show all the products productName, MSRP, productDescription from the products table

Answer: SELECT productName, MSRP, productDescription FROM products

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

Answer: SELECT

prod.productName,

prod.productDescription

FROM

products prod

WHERE prod.productCode = ( SELECT od.productCode orders FROM orderdetails od GROUP BY od.productCode ORDER BY orders DESC LIMIT 1 )

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

Answer: SELECT

COUNT(cust.city) CityCount,

cust.city

FROM

orders AS od

INNER JOIN customers AS cust ON od.customerNumber = cust.customerNumber

GROUP BY (cust.city)

ORDER BY CityCount DESC LIMIT 1

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

Answer: SELECT cust.state, COUNT(cust.state) count FROM customers cust GROUP BY cust.state ORDER BY count DESC LIMIT 1

1. 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

emp.employeeNumber,

CONCAT( emp.firstName, " ", emp.lastName ) employeeFullName

FROM

employees AS emp

1. Write a SQL query to print the orderNumber, customer Name and total amount paid by the customer for that order (quantityOrdered × priceEach).

Answer: SELECT

cu.customerName,

`or`.orderNumber,

( od.priceEach \* od.quantityOrdered ) total

FROM

customers AS cu,

orders AS `or`,

orderdetails AS od

WHERE

cu.customerNumber = `or`.customerNumber

AND `or`.orderNumber = od.orderNumber