**SQL Worksheet**

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;

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| Tables\_in\_sqlsheet |

+--------------------+

| customers |

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1. row in set (0.00 sec)

2- Write SQL query to create table Orders.

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;

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| Tables\_in\_sqlsheet |

+--------------------+

| customers |

| orders |

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1. rows in set (0.00 sec)

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

mysql> desc customers;

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| 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 | |

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13 rows in set (0.05 sec)

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

* mysql> select comments from orders;

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

* mysql> select orderDate,sum(orderDate) from orders;

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

* mysql> select employeNumber, lastName, firstName from employees;

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

* mysql> select orderNumber from orders UNION select customersName from customers;

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

* mysql> select customersName, salesRepEmployeeNumber from employees;

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.

* mysql> select paymentDate, sum(paymentDate) from payments;

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

* mysql> select productName, MSRP, productDescription from products;

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

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

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

* mysql> select city from orders inner join customer on city.customernumber=customers.customerNumber group by city Order by count(orderNumber) desc limit3;

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;

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) as 'Full Name' 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 orderNumber, customerName, SUM(priceEach \* quantityOrdered) total FROM orderDetails INNER JOIN customers USING (productCode) GROUP BY productCode ORDER BY total;