

## WORKSHEET

### WORKSHEET 3 SQL

Refer the following ERD and answer all the questions in this worksheet. You have to write the queries using mysql for the required Operation.

❑ Customers: stores customer's data.

❑ Products: stores a list of scale model cars.

❑ ProductLines: stores a list of product line categories.

❑ Orders: stores sales orders placed by customers.

❑ OrderDetails: stores sales order line items for each sales order.

❑ Payments: stores payments made by customers based on their accounts.

❑ Employees: stores all employee information as well as the organization structure such as who reports to whom.

❑ Offices: stores sales office data.

1. Write SQL query to create table Customers.

Ans: create table customers(

customerNumber int not null,

customerName varchar (20) not null,

customerLastName varchar (20) not null,

customerFirstName varchar (20) not null,

phone int not null,

addressLine1 char(25) not null,

addressLine2 char(25) not null,

city char(10) not null,

state char(10) not null,

country char(7) not null,

salesRepEmployeeNumber int not null,

creditLimit int not null,

primary key (customerNumber)

);

2. Write SQL query to create table Orders.

Ans: create table orders(  
orderNumber int not null,  
orderDate datetime not null,  
requiredDate datetime not null,  
shippedDate datetime not null,  
status char(10) not null,  
comments char(20),  
customerNumber int not null,  
primary key(orderNumber),  
foreign key(customerNumber) references customers(customersID)  
);

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

Ans: SELECT \* FROM orders;

4. Write SQL query to show all the comments from the OrdersTable.

Ans: Select comments from Orders;

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

Ans: Select orderDate,count(\*) from Orders group by orderdate;

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

Ans: select employeeNumber, lastName, firstName from employees;

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

Ans: select orderNumber, customerName from orders,customers  
where orders.customerNumber=customers.customerNumber;

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

Ans: select customerName, firstName, lastName from customers, employees  
where customers.salesRepEmployeeNumber = employees.employeeNumber;

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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 Date,sum(amount) from payments group by paymentDate;

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

Ans: select products, productName, MSRP, productDescription from products;

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

Ans: select productName, productDescription from products order by sum(products.productcode)desc  
limit 1;

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

Ans: select city,orders from customers ,orders where city.customerName=orders.customerName  
group by city  
order by count(orders.orderNumber) desc  
limit 1;

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

Ans: select state from customers  
group by state

order by count(customerNumber)

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.

Ans: select employeeNumber, concat(firstName,lastName) as Fullname 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).

Ans: select orderNumber , quantityOrdered\*priceEach as total\_amount\_paid FROM OrderDetails;