# 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 a SQL query to create table Customers.

Ans=CREATE TABLE customers(customerNumber int PRIMARY KEY, customerName varchar(0),
customerLastName varchar(50), customerFirstName varchar(50), phone int,
addressLine1 varchar(50), addressline2 varchar(50),
city varchar(30),
state varchar(30),
postalCode int,
country varchar(30), salesRepEmployeeNumber int, creditLimit int,
FOREIGN KEY(salesRepEmployeeNumber) REFERENCES
employees(employeeNumber))

Output

SQL query successfully executed. However, the result set is empty.

## 2.Write a SQL query to create table Orders.

Ans=CREATE TABLE orders(orderNumber integer PRIMARY KEY, orderDate date,
requiredDate date,

shippedDate date,

status char(20),

comments text,

customerNumber int,

FOREIGN KEY(customerNumber) REFERENCES customers(customerNumber))

OutputAvailable Tables

SQL query successfully executed. However, the result set is empty.

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

Ans=SELECT * from Orders

Output

SQL query successfully executed. However, the result set is empty.

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

SELECT comments FROM  Orders

Output

SQL query successfully executed. However, the result set is empty.

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

```
SELECT orderDate,count(orderNumber) from orders group by orderDate
```

Output

SQL query successfully executed. However, the result set is empty.

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

```
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 o.orderNumber,c.customerName
from customers c
inner join orders o
on c.customerNumber = o.customerNumber
where orderNumber is not null;
```

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

```
SELECT customerName, concat(lastName," ", firstName) from customer join employees on customers.salesRepEmployeeNumber=employees.employeeNumber
```

```
OutputAvailable Tables
Error: no such table: 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.

```
SELECT paymentDate, sum(amount) from payments group by paymentDate
```

```
OutputAvailable Tables
Error: no such table: payments
```

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

```
SELECT products.productName, MSRP, productDescription,com_name FROM products
```

```
OutputAvailable Tables
Error: no such table: products
```

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

```
SELECT products.`productName`, SUM(orderdetails.`quantityOrdered`) AS quantity

FROM Orderdetails
   INNER JOIN products    ON orderdetails.`productCode` = product.`productCode`GROUP
BY orderdetails.`productCode`
ORDER BY SUM(orderdetails.`quantityOrdered`) DESC, products.`productName` ASC
```

OutputAvailable Tables
Error: no such table: Orderdetails

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

```
select city from orders inner join customer on
city.customerNumber=customers.customerNumber group by city Order by
count(orderNumber) 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 Order by Count(customerNumber) desc
```

OutputAvailable Tables

SQL query successfully executed. However, the result set is empty.

## 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 * FROM employees

 ORDER BY employeeNumber,firstName,lastName DESC;
```

OutputAvailable Tables
Error: no such table: 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;
```

OutputAvailable Tables
Error: no such table: orderDetails