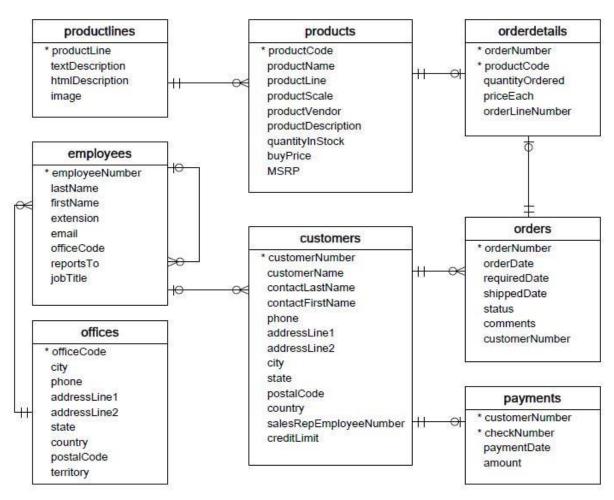


#### **WORKSHEET**

#### **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.

```
create table Customers(customerNumber int Primary Key, customerName varchar(20), contactLastName varchar(20), contactFirstName varchar(20), Phone int, addressLine1 varchar(20), addressLine2 varchar(20), city varchar(20), state varchar(20), postalCode int, country varchar(20), salesRepEmployeeNumber int, creditLimit float);
```

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

create table Orders(orderNumber int Primary Key, orderDate date, requiredDate date, shippedData date, status varchar(20), comments varchar(40), customerNumber int);

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

select \* from Orders:

		requiredDate				customerNumbe
					+    Product Delivery will be soon	
102	2020-10-20	2025-10-20	2023-10-20	Delivered	Product has been delivered	10111
103	2013-11-20	2016-11-20	2014-11-20	In Progress	Product Delivery will be soon	10123
104	2015-07-20	2020-07-20	2017-07-20	On the Way	Product will deliver today	10345
105	2011-03-20	2015-03-20	2012-03-20	Delivered	Product has been delivered	14234

**4.** Write SQL query to show all the comments from the Orders Table. Select comments from Orders;

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;

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 orderNumber, customerName from Orders, Customers where Orders.customerNumber=Customers.customerNumber;

```
mysql> select orderNumber, customerName from Orders, Customers where Orders.customerNumber=Customers.customerNumber;

| orderNumber | customerName |
| 101 | Mandela |
| 102 | Samuel Matt |
| 103 | Kristoffer |
| 104 | Jennifer Hamm |
| 105 | Christian Roain |
| 105 | company of the company of the customer Number = Cu
```

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

select customerName, salesRepEmployeeNumber from Customers;

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) as TotalPayment from Payments group by paymentDate;

# 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 productName order by count(productName) desc limit 2;

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

select city from Customers inner join Orders on customers.customerNumber=orders.customerNumber group by city order by city desc limit 1;

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(customerName) desc limit 1;

```
mysql> select state from Customers group by state
-> order by count(customerName) desc limit 1;

+-----+
| state |
+-----+
| Tokyo |
+-----+
1 row in set (0.00 sec)
```

# 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 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).

select orders.orderNumber, customers.customerName, orderdetails.quantityOrdered\*orderdetails\*priceEach as totalamount

from ((orders inner join customerson orders.customerNumber=customer.customerNumber)

inner join orderdetails on orders.orderNumber=orderdetails.orderNumber)