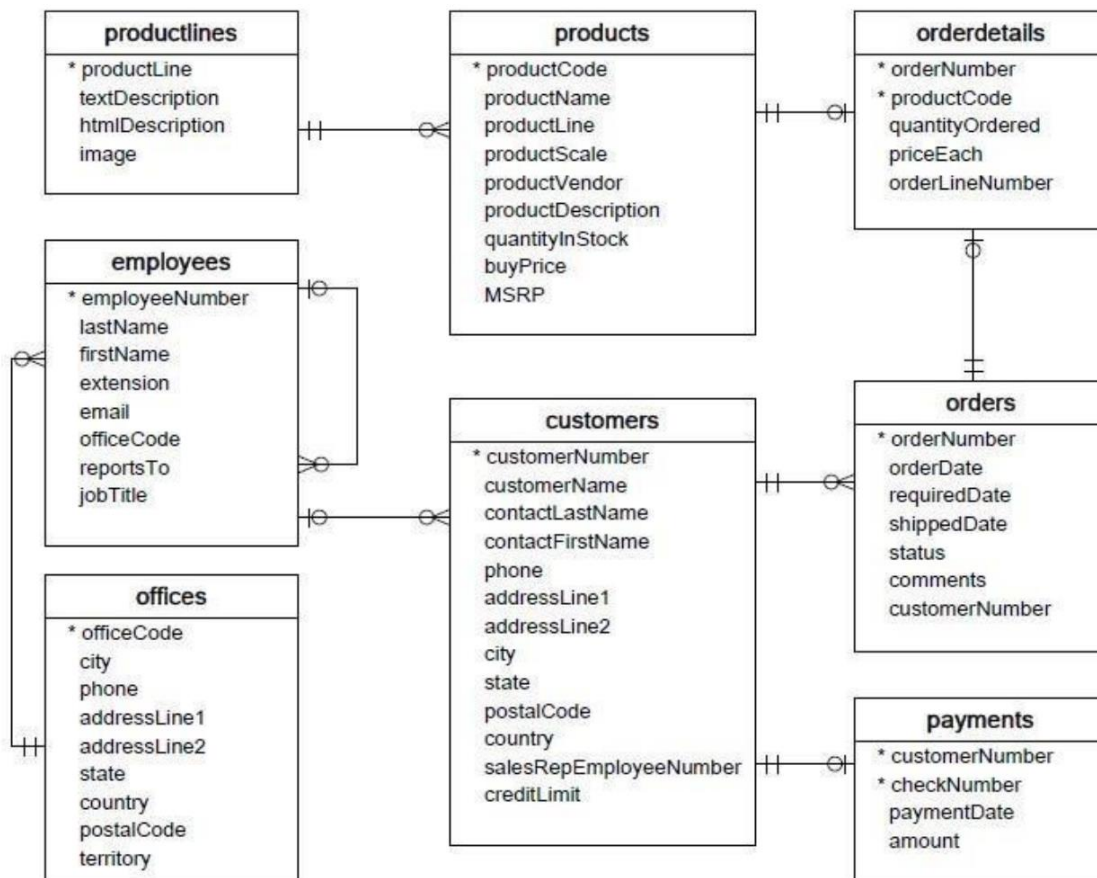


# WORKSHEET-3

## 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.

```
db = sqlite3.connect("SQL_Database.db")
cursor = db.cursor()
cursor.execute("create table Customers(customerNumber primary key, customerName
text,contactLastName text, customerFirstName text, phone int, addressLine1 text, addressLine2 text,
city text, state text, postalCode int, country text, salesRepEmployeeNumber int, creditLimit int)")
```

2. Write SQL query to create table Orders.

```
cursor.execute("create table Orders(orderNumber Primary key, orderDate text, requiredDate text,
shippedDate text, status text, comments text, customerNumber int)")
```

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

```
r = cursor.execute("select * from Orders")
for row in r:
    print(row)
```

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

```
r = cursor.execute("select comments from Orders")
for row in r:
    print(row)
```

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

```
r = cursor.execute("select orderDate, count(orderDate) from orders group by orderDate")
for row in r:
    print(row)
```

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

```
r = cursor.execute("select employeeNumber, lastName, firstName from Employees")
for row in r:
    print(row)
```

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

```
r = cursor.execute("select orderNumber, customerName from (SELECT * FROM Orders JOIN Customers
using (customerNumber))")
for row in r:
    print(row)
```

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

```
r = cursor.execute("select customerName, salesRepEmployeeNumber from Customers")
for row in r:
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    print(row)
```

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.

```
r = cursor.execute("select orderDate, sum(amount) from (SELECT * FROM Orders JOIN Payments using
(customerNumber)) orders group by orderDate")
for row in r:
    print(row)
```

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

```
r = cursor.execute("select productName, MSRP, productDescription from products")
for row in r:
    print(row)
```

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

```
r = cursor.execute("select productName, productDescription from products join (select productCode,
sum(quantityOrdered) as totalQuantity from orderdetails GROUP BY productCode) using
(productCode)")
for row in r:
    print(row)
```

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

```
r = cursor.execute("select City, count(city) from customers group by city")
for row in r:
    print(row)
```

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

```
r = cursor.execute("select state, count(state) from customers group by state")
for row in r:
    print(row)
```

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.

```
r = cursor.execute("select employeeNumber, firstName || ' ' || lastName as fullName from employees")
for row in r:
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    print(row)
```

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

```
r = cursor.execute("select orderNumber, customerName, totalprice from (select * from customers join  
orders using (customerNumber)) join (select orderNumber, quantityOrdered * priceEach as totalprice  
from orderdetails) using (orderNumber)")  
for row in r:  
    print(row)
```