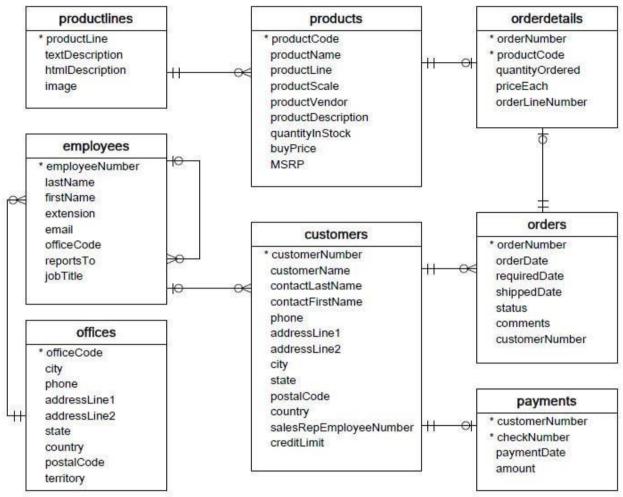


WORKSHEET 3 SQL

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 employeNumber, lastName, firstName of all the employees from **employees** 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:



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:
```

71 10W 1111.

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:



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)



