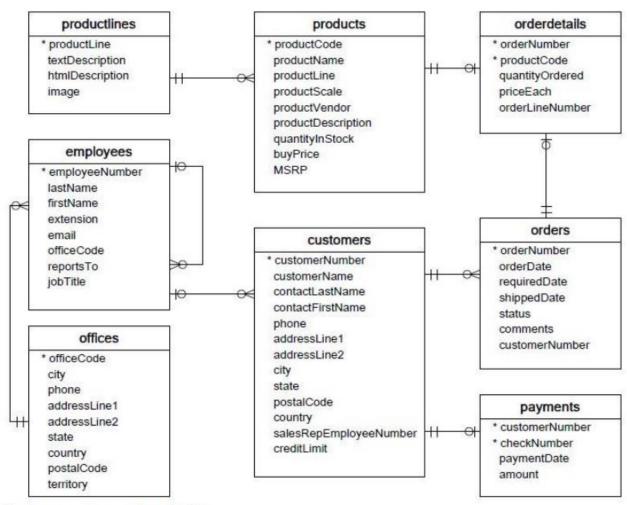
SQL



- 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.

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1. Write SQL query to create table Customers.

```
# Writing code to create table "Customers" and it's columns below mentioned
    sql command = """CREATE TABLE Customers(
    CustomerNo INTEGER PRIMARY KEY, CustomerName VARCHAR(30),
    ContactLastName VARCHAR(15),
    ContactFirstName VARCHAR(15),
    Phone INTEGER(10),
    AddressLine1 VARCHAR(30),
    AddressLine2 VARCHAR(30),
    City CHAR(20),
    State CHAR(20),
    PostalCode INTEGER(6),
    Country CHAR(10),
    SalesRepEmployeeNumber INTEGER (30),
    CreditLimit INTEGER(10));"""
    # executing code
    cursor.execute(sql_command)
    # saves all the modifications made since the last commit.
    conn.commit()
2. Write SQL query to create table Orders.
    # Writing code to create table "Orders" and it's columns below mentioned
    sql command = """CREATE TABLE Orders(
    orderNo INTEGER PRIMARY KEY.
    orderdate DATE(10),
    requireddate DATE(10),
    shippeddate DATE(10),
    status CHAR(10),
    comments VARCHAR(30),
```

executing code

cursor.execute(sql_command)

CustomerNo INTEGER (15),

saves all the modifications made since the last commit. conn.commit()

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

FOREIGN KEY (CustomerNo) REFERENCES Customers (CustomerNo));"""

```
sql_command = """SELECT * FROM Orders;"""
select= cursor.execute(sql_command)
for i in select:
    print(i)
```

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

```
sql_command = """SELECT comments FROM Orders;"""
select= cursor.execute(sql_command)
```

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```
for i in select:
print(i)
```

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

```
sql_command = """SELECT date(orderdate), COUNT(*) FROM Orders GROUP BY date(orderdate);"""
select= cursor.execute(sql_command)
for i in select:
    print(i)
```

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

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

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

```
sql_command = """SELECT Customers.CustomerName, Employees.FirstName || ' ' || LastName AS FullName FROM Customers, Employees WHERE Customers.SalesRepEmployeeNumber = Employees.EmployeeNo;""" select= cursor.execute(sql_command) for i in select:

print(i)
```

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.

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

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

sql command = """SELECT Products.ProductName, Products.ProductDescription, SUM(OrderDetails.QuantityOrdered) AS QuantityOrdered FROM Products INNER JOIN OrderDetails ON OrderDetails.ProductCode = Products.ProductCode GROUP BY OrderDetails.QuantityOrdered :""" select= cursor.execute(sql_command) for i in select:

print(i)

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

sql command = """SELECT Customers.City, SUM(OrderDetails.QuantityOrdered) AS QuantityOrdered FROM Customers INNER JOIN OrderDetails, Orders ON Customers. CustomerNo = Orders. CustomerNo and Orders.orderNo = OrderDetails.orderNo GROUP BY OrderDetails.QuantityOrdered;""" select= cursor.execute(sql_command)

for i in select:

print(i)

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

```
sql command = """SELECT State, COUNT(*) AS Max Customer FROM Customers
GROUP BY State ORDER BY COUNT(*) DESC;"""
select= cursor.execute(sql_command)
for i in select:
      print(i)
```

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.

```
sql command = """SELECT EmployeeNo, FirstName | | ' ' | LastName AS FullName
FROM Employees ;"""
select= cursor.execute(sql_command)
for i in select:
       print(i)
```

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

sql_command = """SELECT OrderDetails.orderNo, Customers.CustomerName, (OrderDetails.QuantityOrdered * OrderDetails.PriceEach) AS Amount FROM OrderDetails INNER JOIN Customers, Orders ON Customers. CustomerNo = Orders. CustomerNo and OrderDetails.orderNo = Orders.orderNo;"""

select= cursor.execute(sql_command)

for i in select:

print(i)