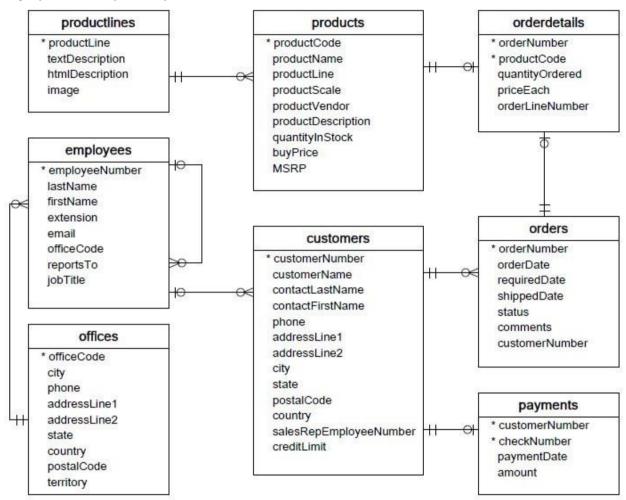


WORKSHEET 3 SQL

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**.

Answer.

sql_command = "CREATE TABLE customers(customerNo INTEGER PRIMARY KEY,customerName SALAM(30),contactLastName SALAM(15),contactFirstName SALAM(15), phone INTEGER(10), addressline1 SALAM(30), addressline2 SALAM(30), city LAM(20), state LAM(20), postalcode INTEGER(6), country LAM(10), salesRepEmployeeNumber INTEGER(30), creditLimit INTEGER(10))" # execute code

Cursor.execute(sql_command)

save

Conn.commit()



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

Answer.

Sql_command = "CREATE TABLE orders(orderNo INTEGER PRIMARY KEY, orderDate DATE(10), requiredDate DATE(10), shippedDate DATE(10), status LAM(10), comments SALAM(30), customerNo INTEGER(15), FOREIGN KEY (customerNo), REFERENCES customers (customerNo))" # execute

Cursor.execute(sql_command)

save

Conn.commit()

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

Answer.

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 Orders Table.

Answer.

Sql_command = "SELECT comments FROM orders"
Select=cursor.execute(sql_command)
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.

Answer.

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.

Answer.

sql_command = "SELECT EmployeeNO,LastName,FirstName FROM Employees"
select= cursor.execute(sql_command)
for i in select:
print(i)



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

Answer.

Sql_command = "SELECT orders.customerNo,customers.customerName From orders,customers
WHERE orders.customerNo"
Select = cursor.execute(sql_command)
for i in select:
print(i)

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

Answer.

 $Sql_command = "SELECT customers.customerName, Employees. FirstName((")) LastNamw AS FullName$

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.

Answer.

```
Sql_command = "SELECT" date(PaymentDate), SUM(Amount) FROM payments GROUP BY date(paymentDate)" select= cursor.execute(sql_command) for i in select: print(i)
```

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

table.

Answer.

```
Sql_command = "SELECT ProductName,MSRP,ProductDescription FROM Products"
Select= cursor.execute(sql_command)
for i in select:
print(i)
```

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

Answer.

Sql_command = "SELECT Products.ProductName,Products.ProductDescription, SUM(OrderDetails.QuantityOrdered) AS QuantityOrdered FROM pProducts INNER JOIN OrederDetails ON OrderDetails.ProductCode= Products.ProductCode GROUP BY OrderDetails.WuantityOrdered" 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.

Answer.

```
Sql_command = "SELECT Customers.City, SUM(OrderDetails.QuantityOrdered) AS QuantityOrdered FROM Customer INNER JOIN OrderDetails, Order ON Customers.CustomersNO= 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.

Answer.

Sql_command = "SELECT State,COUNT(*) AS Max_Customer FROM Customers GROUP BY Ste OREDR BY COUNT(*)DESC" Select = cursor.execute



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.

Answer.

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).

Answer.

Sql_command = "SELECT OrderDetails.OrderNo, Customer.CustomerName,
(OrderDetails.QuantityOrdered* OderDetails.PriceEach) AS A mount FROM OrderDetails INNER
JOIN Customer, Orders ON, Customers.CustomerNo = Orders.CustomerNo and
OrderDetails.OrderNo = Orders.OrderNo"
Select= cursor.excute(sql_commad)
for I in select:
print(i)

