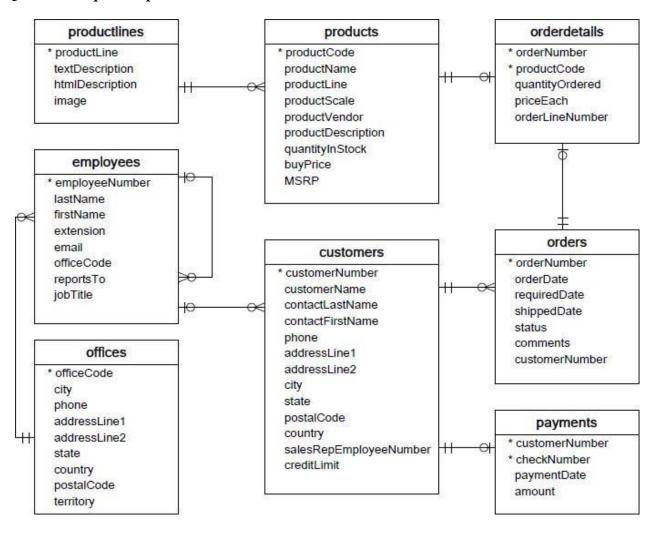


WORKSHEET 4 SQL

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.
- ☐ **Product Lines**: stores a list of product line categories.
- Orders: stores sales orders placed by customers.
- Order Details: 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.

QUESTIONS:

1. Write a SQL query to show average number of orders shipped in a day (use Orders table).

Answer-

```
sql_command = """SELECT date(shippeddate), AVG(QuantityOrdered) AS
   num orders
   FROM Orders, OrderDetails
   WHERE OrderDetails.orderNo = Orders.orderNo
   GROUP BY date(shippeddate);"""
   select= cursor.execute(sql command)
   for i in select:
   print(i)
2. Write a SQL query to show average number of orders placed in a day.
   Answer-
   sql_command = """SELECT date(orderdate), AVG(QuantityOrdered)
   FROM Orders, OrderDetails
   WHERE OrderDetails.orderNo = Orders.orderNo
   GROUP BY date(orderdate);"""
   select= cursor.execute(sql_command)
   for i in select:
   print(i)
3. Write a SQL query to show the product name with minimum MSRP (use Products table).
   Answer-
   sql_command = """SELECT ProductName, MIN(MSRP) FROM Products GROUP
   BY MSRP;"""
   select= cursor.execute(sql_command)
   for i in select:
   print(i)
```



ASSIGNMENT

4. Write a SQL query to show the product name with maximum value of stockQuantity.

Answer-

sql_command = """SELECT ProductName, MAX(QuantityInStock) FROM
Products GROUP BY QuantityInStock;"""
select= cursor.execute(sql_command)
for i in select:
 print(i)

5. Write a query to show the most ordered product Name (the product with maximum number of orders).

Answer-

sql_command = """SELECT Products.ProductName,
SUM(OrderDetails.QuantityOrdered)

```
FROM OrderDetails
INNER JOIN Products
ON Products.ProductCode= OrderDetails.ProductCode
GROUP BY OrderDetails.QuantityOrdered
ORDER BY SUM(OrderDetails.QuantityOrdered) DESC;"""
select= cursor.execute(sql_command)
for i in select:
    print(i)
```

6. Write a SQL query to show the highest paying customer Name.

```
Answer-
```

```
sql_command = """SELECT CustomerName , MAX(Amount) AS Amount
FROM Customers, Payment
WHERE Customers.CustomerNo= Payment.CustomerNo
GROUP BY CustomerName
ORDER BY MAX(Amount) DESC;"""
select= cursor.execute(sql_command)
for i in select:
    print(i)
```

7. Write a SQL query to show cutomerNumber, customerName of all the customers who are from Melbourne city.

```
Answer-
sql_command = """SELECT CustomerNo, CustomerName FROM Customers
WHERE City = "Melbourne";"""
select= cursor.execute(sql_command)
for i in select:
    print(i)
```

8. Write a SQL query to show name of all the customers whose name start with "N".

Answer:

```
sql_command = """SELECT CustomerName FROM Customers
WHERE CustomerName LIKE "N%";"""
select= cursor.execute(sql_command)
for i in select:
    print(i)
```

9. Write a SQL query to show name of all the customers whose phone start with '7' and are from city 'Las Vegas'.

```
Answer-
```

```
sql_command = """SELECT CustomerName, Phone, City FROM Customers
WHERE Phone LIKE "7%" and City = "Las Vegas";"""
select= cursor.execute(sql_command)
for i in select:
    print(i)
```

10. Write a SQL query to show name of all the customers whose creditLimit < 1000 and city is either "Las Vegas" or "Nantes" or "Stavern".

```
Answer-
sql_command = """SELECT CustomerName, CreditLimit, City FROM Customers
WHERE CreditLimit < 1000 AND City ="Las Vegas" OR City ="Nantes" OR City =
"Stavern";"""
select= cursor.execute(sql_command)
for i in select:
print(i)
        Write a SQL query to show all the orderNumber in which quantity ordered <10
Answer-
sql_command = """SELECT orderNo, QuantityOrdered FROM OrderDetails
WHERE QuantityOrdered < 10;"""
select= cursor.execute(sql_command)
for i in select:
print(i)
        Write a SQL query to show all the orderNumber whose customer Name start with letter 'N'.
12.
Answer-
sql_command = """SELECT Orders.orderNo, Customers.CustomerName FROM
Orders, Customers
ON Orders.CustomerNo = Customers.CustomerNo
WHERE Customers.CustomerName LIKE "N%";"""
select= cursor.execute(sql_command)
for i in select:
print(i)
       Write a SQL query to show all the customerName whose orders are "Disputed" in status.
13.
Answer-
sql_command = """SELECT CustomerName, status
FROM Customers, Orders
ON Orders.CustomerNo =Customers.CustomerNo
WHERE status= "Disputed";"""
select= cursor.execute(sql_command)
for i in select:
print(i)
14.
        Write a SQL query to show the customerName who made payment through cheque with
checkNumber starting with H and made payment on "2004-10-19".
Answer-
sql_command = """SELECT CustomerName, ChequeNo, PaymentDate
FROM Customers
INNER JOIN Payment
ON Customers.CustomerNo = Payment.CustomerNo
WHERE Payment.ChequeNo LIKE "H%" AND Payment.PaymentDate= "2004-10-
19";"""
select= cursor.execute(sql_command)
for i in select:
print(i)
15. Write a SQL query to show all the checkNumber whose amount > 1000
Answer-
sql_command = """SELECT ChequeNo, Amount FROM Payment
```

WHERE Amount>1000;"""

select= cursor.execute(sql_command)
for i in select:
 print(i)