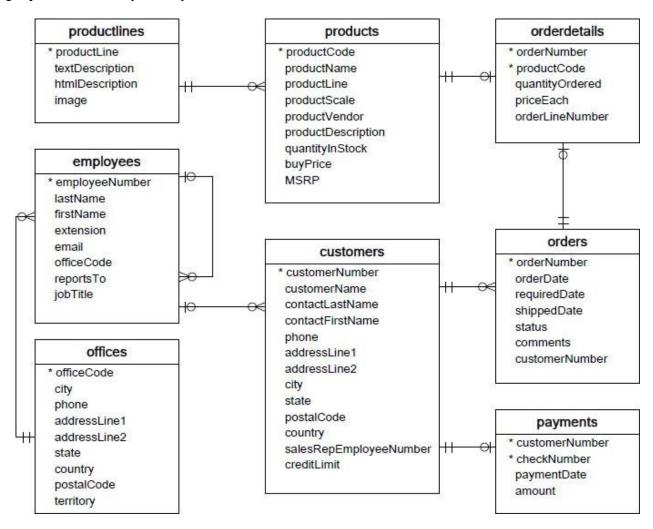


WORKSHEET 4 SQL

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 towhom.
- Offices: stores sales office data.

QUESTIONS:

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)
```



print(i)

4. Write a SQL query to show the product name with maximum value of stockQuantity. 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(sgl_command) for i in select: print(i) 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;""" 7. Write a SQL guery 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:



8. Write a SQL guery to show name of all the customers whose name start with "N". Answer. sgl_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 'LasVegas'. 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) 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) 11. Write a SQL guery to show all the orderNumber in which quantity ordered <10. 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) 12. Write a SQL query to show all the orderNumber whose customer Name start with letter 'N'. Answer. sql_command = """SELECT Orders.orderNo, Customers.CustomerName FROM Orders, Customers ON Orders.CustomerNo =Customers.CustomerNo WHERE



Customers.CustomerName LIKE "N%";"""



```
13. Write a SQL query to show all the customerName whose orders are "Disputed" in status.
       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)
                                  FLIP ROBO
  for i in
  select:
   print(i)
```