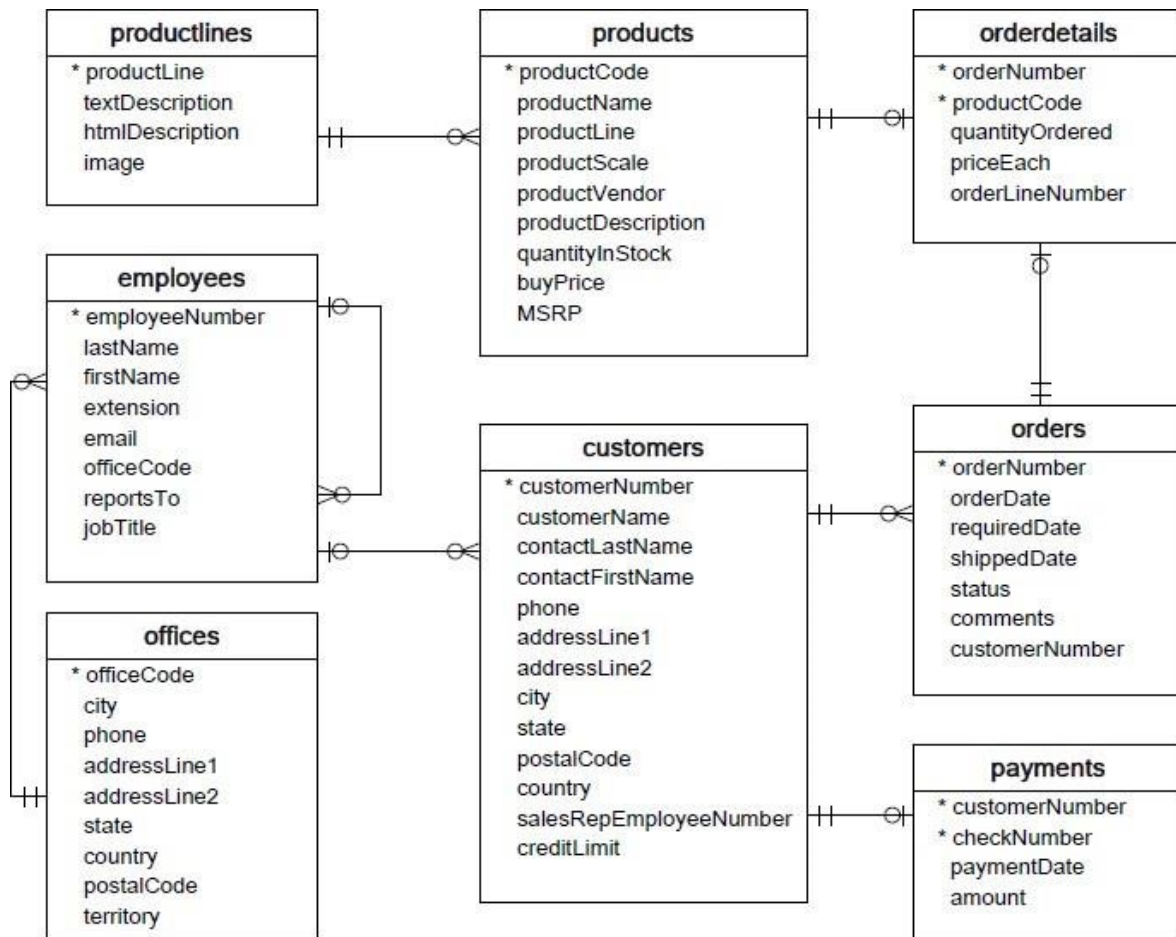


WORKSHEET 4 SQL

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: `SELECT AVG(ShippedDate) FROM Orders;`

2. Write a SQL query to show average number of orders placed in a day.

ANSWER: `SELECT AVG(STATUS) from Orders;`

3. Write a SQL query to show the product name with minimum MSRP (use Products table).

ANSWER: `SELECT productname, MIN(MSRP) FROM Products GROUP BY productname;`

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

ANSWER: `SELECT productname, MAX(quantityofstock) GROUPBY Productname;`

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

ANSWER: `SELECT productname FROM products, Ordersdetails WHERE products.productcode = orderdetails.productcode and quantityordered = (SELECT MAX(quantityordered FROM orderdetails);`

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

ANSWER: `SELECT customername FROM customers,payments
WHERE customers.customernumber = payments.customernumber and
amount = (SELECT MAX(amount) FROM payments);`

7. Write a SQL query to show customerNumber, customerName of all the customers who are from Melbournecity.

ANSWER: `SELECT customerNumber, customerName FROM Customers WHERE CITY = "Melbourne";`

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

ANSWER: `SELECT customerName FROM Customers WHERE customerName LIKE "N%";`

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

ANSWER: `SELECT customerName FROM Customers WHERE phone LIKE "7%" AND City = "Las Vegas";`

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: `SELECT customerName FROM Customers WHERE creditLimit < 1000 AND City = "Las Vegas"
OR City = "Nantes" OR City = "Stavern";`

11. Write a SQL query to show all the orderNumber in which quantity ordered <10.

ANSWER: `SELECT orderNumber FROM Orders WHERE quantityordered <10;`

12. Write a SQL query to show all the orderNumber whose customer Name start with letter 'N'.

ANSWER: `SELECT orderNumber FROM Orders INNER JOIN Customers`

ON Orders. customerNumber = customers.customerNumber
WHERE customerName LIKE "N%";

13. Write a SQL query to show all the customerName whose orders are "Disputed" in status.

ANSWER: SELECT customerName FROM Customers INNER JOIN Orders
ON customers. customerNumber = orders.customerNumber
WHERE Status = "Disputed";

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: SELECT customerName FROM Customers INNER JOIN payments
ON customers. customerNumber = payments.customerNumber
WHERE checkNumber LIKE "H%"
AND paymentDate = "2004-10-19";

15. Write a SQL query to show all the checkNumber whose amount > 1000.

ANSWER: SELECT checkNumber FROM payments
WHERE amount > 1000;