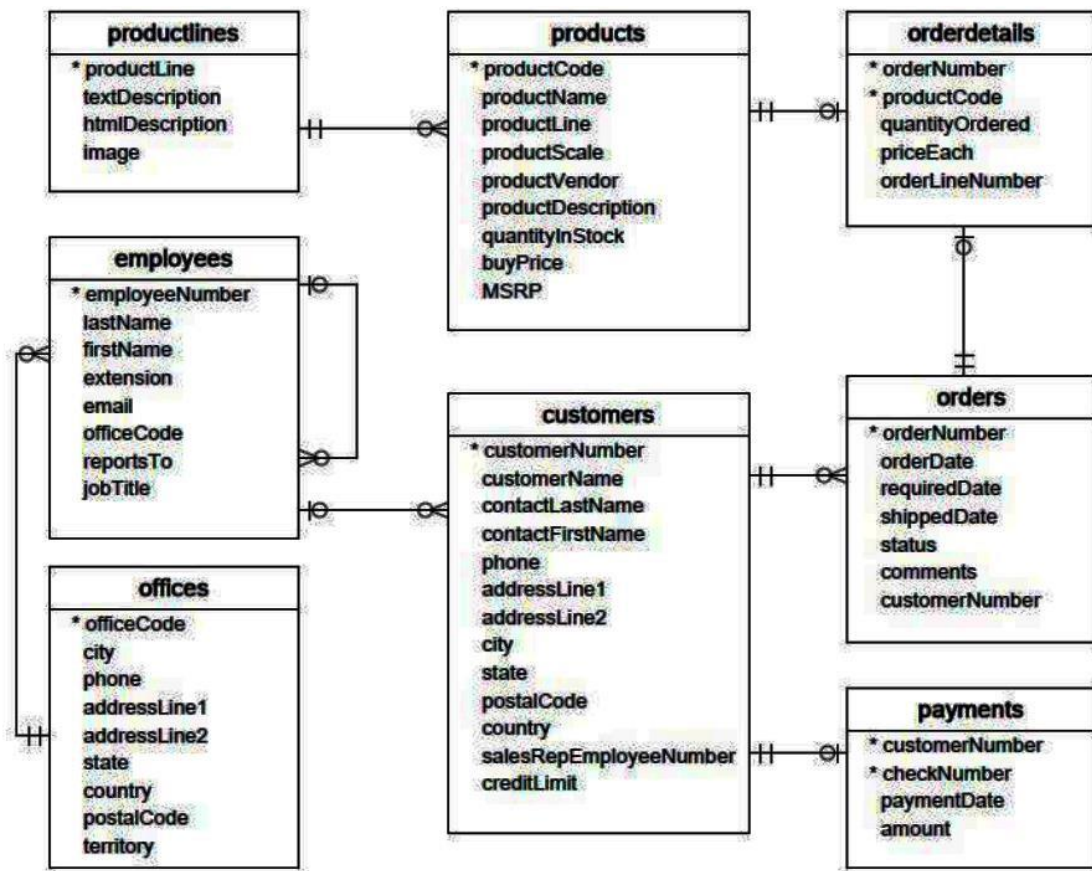


WORKSHEET - 4 SQL

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.
- **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.

Questions

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

Ans. `SELECT shippedDate, Avg (orderNumber) FROM Orders GROUP BY shippedDate;`

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

Ans. `SELECT orderDate, Avg (orderNumber) FROM Orders GROUP BY orderDate;`

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

Ans. `SELECT productname, MIN (MSRP) FROM product;`

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

Ans. `SELECT productname , MAX (quantityinstock) FROM products;`

5. Write a query to show the most ordered product Name (the product with

maximum number of orders).

Ans. `SELECT productname , MAX(quantityordered) FROM orderdetails INNER JOIN products ON orderdetails.`productcode` = products.`productcode`;`

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

Ans. `SELECT customername , MAX(amount) FROM payments INNER JOIN customers ON payments.`customerNumber` = customers.`customerNumber`;`

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

Ans. `SELECT customerNumber, customerName FROM customers WHERE city='Melbourne city';`

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

Ans. `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'.

Ans. `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".

Ans. `SELECT customerName FROM customers WHERE creditLimit < 1000 AND city IN ("Las Vegas" , "Nantes" , "Stavern");`

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

Ans. `SELECT orderNumber FROM orderdetails WHERE quantityordered <10;`

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

Ans. `SELECT ordernumber FROM orders WHERE customername LIKE 'N%' INNER JOIN customers ON orders.`customerNumber` = customer.`customerNumber`;`

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

Ans. `SELECT customerName FROM customers WHERE status='Disputed' INNER JOIN orders ON customers.`customerNumber` = orders.`customerNumber`;`

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".

Ans. `SELECT customerName FROM customers WHERE checkNumber LIKE 'H%' AND paymentDate='2004-10-19' INNER JOIN payments ON customers.`customerNumber` = payments.`customerNumber`;`

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

Ans. `SELECT checkNumber FROM payments WHERE amount > 1000;`