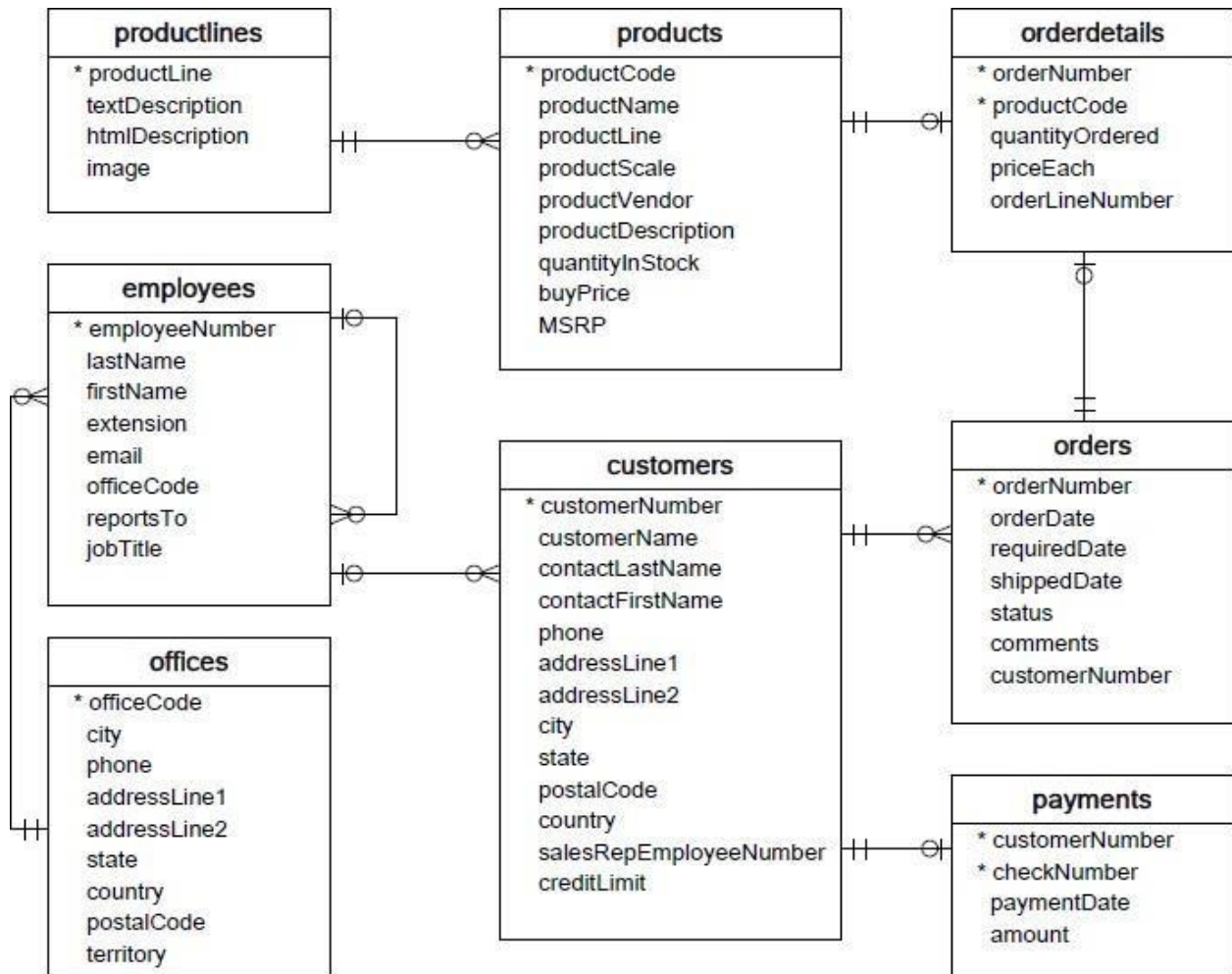


## WORKSHEET 4 SQL

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 GROUP BY orderDate;

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

**Answer:** select AVG(orderNumbers) from orders GROUP BY orderDate;

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

**Answer:** select productName from products where MSRP = (select MIN(MSRP) from products);

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

**Answer:** select productName from products where quantityInStock = (select MAX(quantityInStock) from products);

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

**Answer:** select productName from products, COUNT(DISTINCT productCode), MAX(quantityOrder) from orderDetails GROUP BY productCode;

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

**Answer:** select a.customerName from customers a, where b.amount =(select MAX(amount)) from payments AND a.customerNumber = b.customerNumber;

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

**Answer:** select customerName, customernumber 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%' order by customerName;

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

**Answer:** select customerName from customers where customerNumber LIKE '7%' AND city='LasVegas' order by customerName;

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='LasVegas' 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 orderdetails where quantityOrder <10;

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

**Answer:** select orderNumber from orders a, where b.customerName LIKE 'N%' from customers AND a.customerNumber=b.customerNumber;

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

**Answer:** select a.customerName from customers where b.status='Disputed' from orders AND a.customerNumber=b.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".

**Answer:** select a.customerName from customers where b.checkNumber LIKE 'H%' AND b.paymentdate='2004-10-19' from payments AND a.customerNumber=b.customerNumber;

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

**Answer:** select checkNumber from payments where amount>1000;

