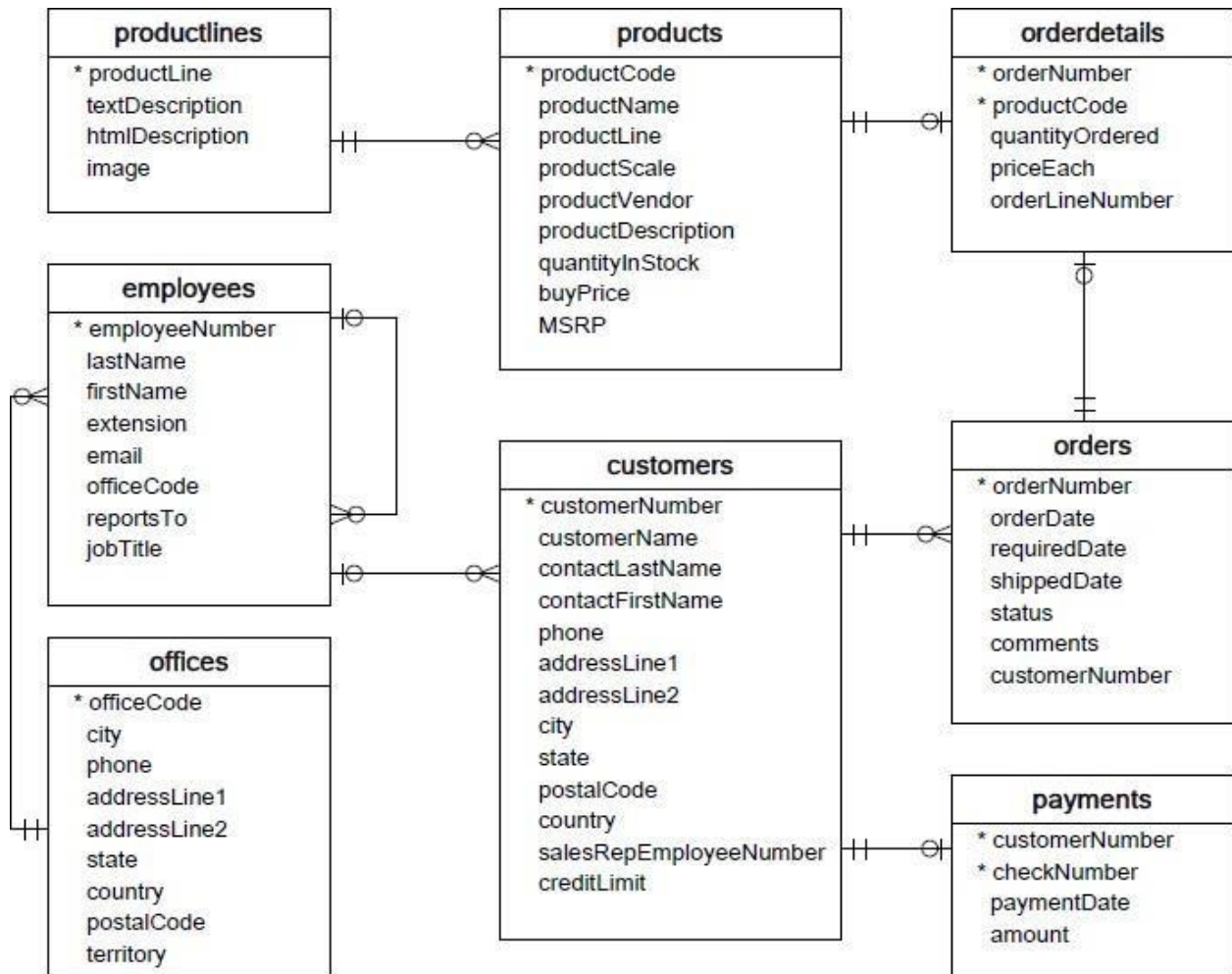


WORKSHEET 4 SQL

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).

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 products GROUP BY productName;

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

Ans- SELECT productName, max(quantityinstock) from products GROUP BY productName;

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

Ans-SELECT productName, COUNT(DISTINCT productCode) FROM Products GROUP BY productName ORDER BY 2 DESC;

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

Ans-SELECT * Top 1 customerName from customers join payments on customers.customerNumber=payments.customerNumber GROUP BY customerName order by count(*) DESC;

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';

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 'LasVegas'.

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 a.orderNumber from orders a, orderdetails b where a.orderNumber=b.orderNumber and b.quantityOrder<10;

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

Ans- SELECT a.orderNumber from orders a, customers b where a.customerNumber=b.customerNumber and b.customerName like ' N%';

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

Ans-Select a.customerName from customers a, orders b
where a.customerName=b.customerName and b.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”.

Ans-SELECT a.customerName from customers a, payments b where a.customerNumber=b.customerNumber and b.checkNumber like 'H%' and paymentDate='2004-10-19';

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

Ans- SELECT checkNumber from payments where amount>1000;

