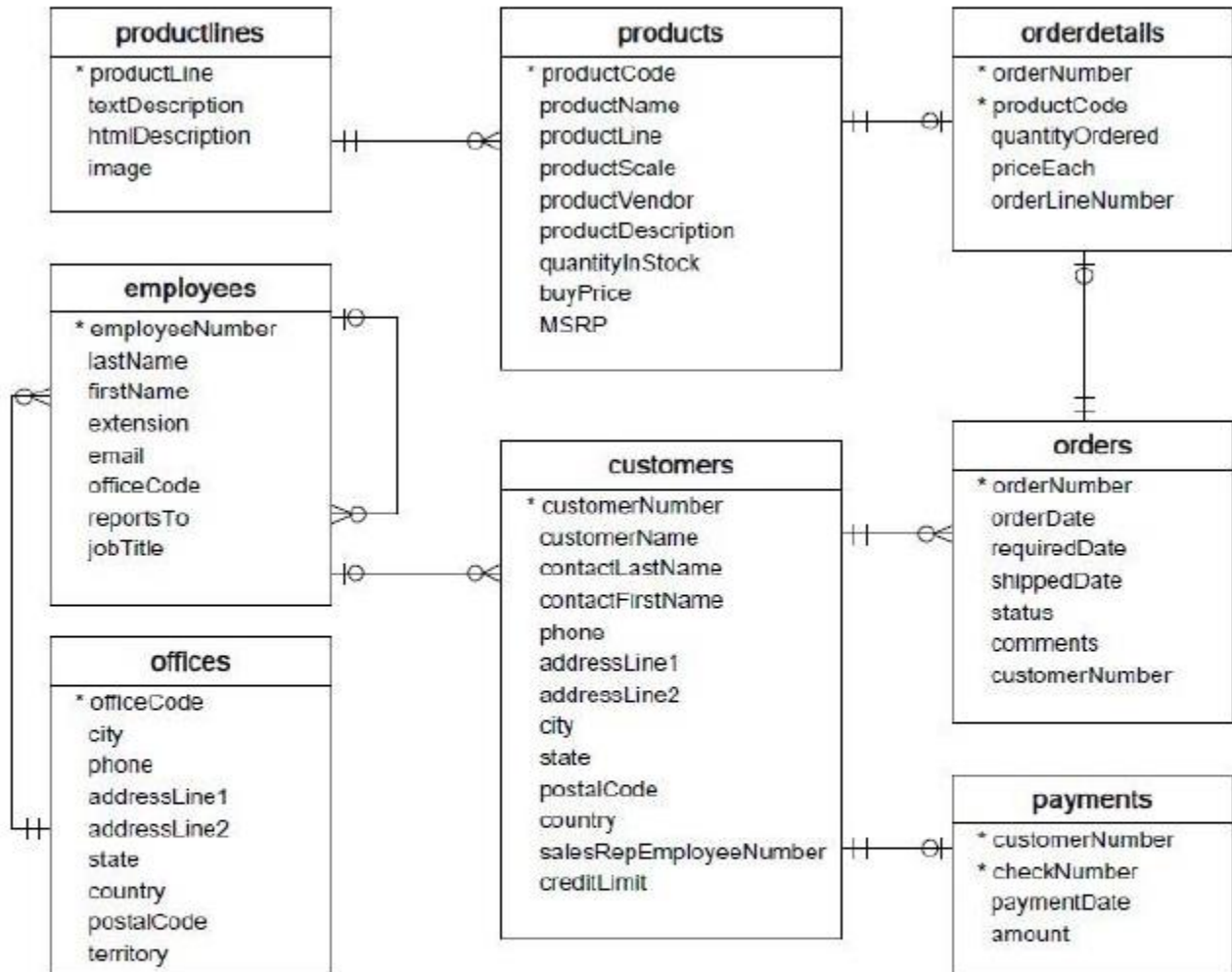# WORKSHEET 4 SQL

Refer the following ERD and answer all the questions in this worksheet. You have to write the queries using MySQL for the required Operatio

- **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 ShippedDate , (AVG(orderNumber) as Averge_number_of_orders FROM Orders GROUP BY ShippedDate
2	Write a SQL query to show average number of orders placed in a day.
Answer	SELECT orderDate , AVG(orderNumber) as 'Total_number_of _orders' 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 order BY MSRP ASC LIMIT 1
4	Write a SQL query to show the product name with maximum value of stockQuantity.
Answer	Select productName FROM products orderBY quantityInStock DESC LIMIT 1
5	Write a query to show the most ordered product Name (the product with maximum number of orders).
Answer	SELECT productName FROM Products INNER JOIN Orderdetails ON Products.productCode = Orderdetails.productCode GROUP BY Products.productCode ORDER BY SUM(quantityOrdered) DESC LIMIT 1
6	Write a SQL query to show the highest paying customer Name.
Answer	SELECT customerName FROM customers INNER JOIN payments ON customers.customerNumber= payments.customerNumber orderby payments.amount DESC LIMIT 1
7	Write a SQL query to show cutomerNumber, customerName of all the customers who are from Melbourne city.
Answer	SELECT cutomerNumber , 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 'LasVegas'.

Answer	SELECT customerName FROM customers WHERE phone LIKE '7%' AND city ='LasVegas'
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 "Nantes" or "Stavern")
11	Write a SQL query to show all the orderNumber in which quantity ordered <10.
Answer	SELECT orderNumber FROM orderdetails where quantityOrdered <10
12	Write a SQL query to show all the orderNumber whose customer Name start with letter 'N'.
Answer	SLECT 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	SLECT 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	SLECT customerName FROM customers INNER JOIN payments ON customers.customerNumber = payments.customerNumber where chequeNumber 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