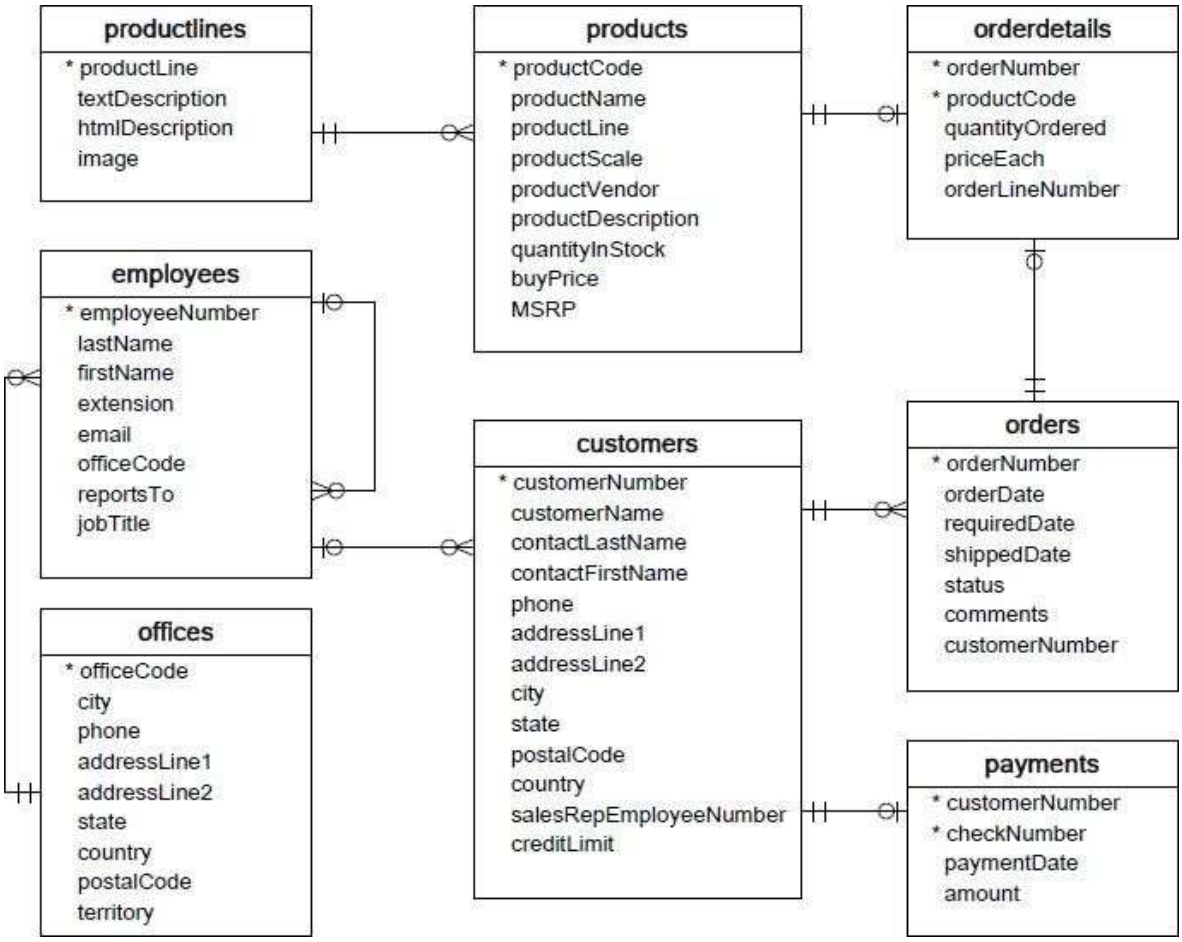
WORKSHEET 4 SQL

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 towhom.
- **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) FROMorders 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;

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' 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.
   Ans: SELECT 'customerName' from customers INNER JOIN Payments ON customers.'customerNumber'=payments.'customerNumber' GROUP BY Products.'customerNumber' ORDER BY Sum('amount') DESC LIMIT 1;

7. Write a SQL query to show cutomerNumber, customerName of all the customers who are from Melbourne city.
   Ans: SELECT 'customerNumber','customerName' from customer where city='Melbourne';

8. Write a SQL query to show name of all the customers whose name start with "N".
   Ans: SELECT 'customerName' from customer 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 customer where phone LIKE ''^7.*' AND where 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 customer where creditLimit< 1000 AND where city='Las Vegas' OR city='Nantes' OR city=Stavern;

11. Write a SQL query to show all the orderNumber in which quantity ordered <10.
    Ans: SELECT 'orderNumber','quantityOrdered'FROMorderdetailsWHERESum('quantityOrdered')<10;

12. Write a SQL query to show all the orderNumber whose customer Name start with letter 'N'.
    Ans: SELECT 'orderNumber' from orders INNERJOIN customers ON orders.customerNumber=customers.customerNumber WHERE customerNameLIKE 'N';

13. Write a SQL query to show all the customerName whose orders are “Disputed” in status.
    Ans: 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”.
    Ans: SELECT ‘customerName’ from customers INNER JOIN Payments ON customers.’customerNumber’=payments.’customerNumber’ GROUP BY Payments.’checkNumber’WHERECheckNumber LIKE ‘H’ AND paymentDate=’2004-10-19’;

15. Write a SQL query to show all the checkNumber whose amount > 1000.
    Ans: SELECT ‘checkNumber’,’amount’ from payments WHERE amount>1000;