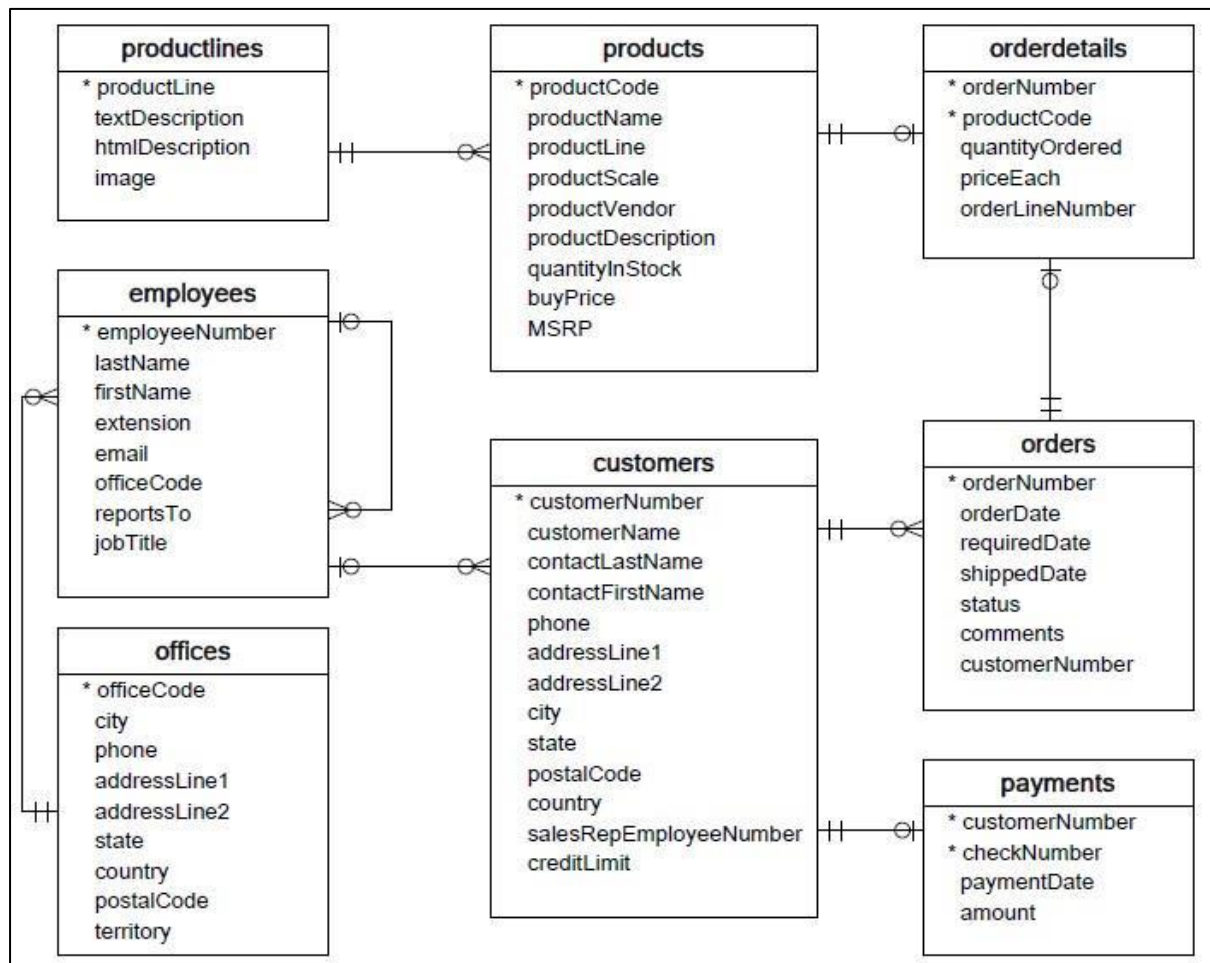# Worksheet-Set 4: SQL Assignment

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.

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

    SELECT `shippedDate`, avg(orderNumber) FROM orders GROUP BY ` shippedDate`;

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

    SELECT `orderDate`, avg(orderNumber) FROM orders GROUP BY ` orderDate`;

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

    SELECT `ProductName` , max(MSRP) FROM products;

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

    SELECT `ProductName` , max(quantityInStock) FROM products;

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

    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.

    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.

    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".

    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'.

    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".

    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.

    SELECT 'orderNumber','quantityOrdered' FROM orderdetails WHERE Sum('quantityOrdered')<10;

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

    SELECT '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.

    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 startingwith H and made payment on "2004-10-19".

    SELECT 'customerName' from customers INNER JOIN Payments ON customers.'customerNumber'=payments.'customerNumber' GROUP BY Payments.'checkNumber' WHERE checkNumber LIKE 'H' AND paymentDate='2004-10-19';

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

    SELECT 'checkNumber','amount' from payments WHERE amount>1000;