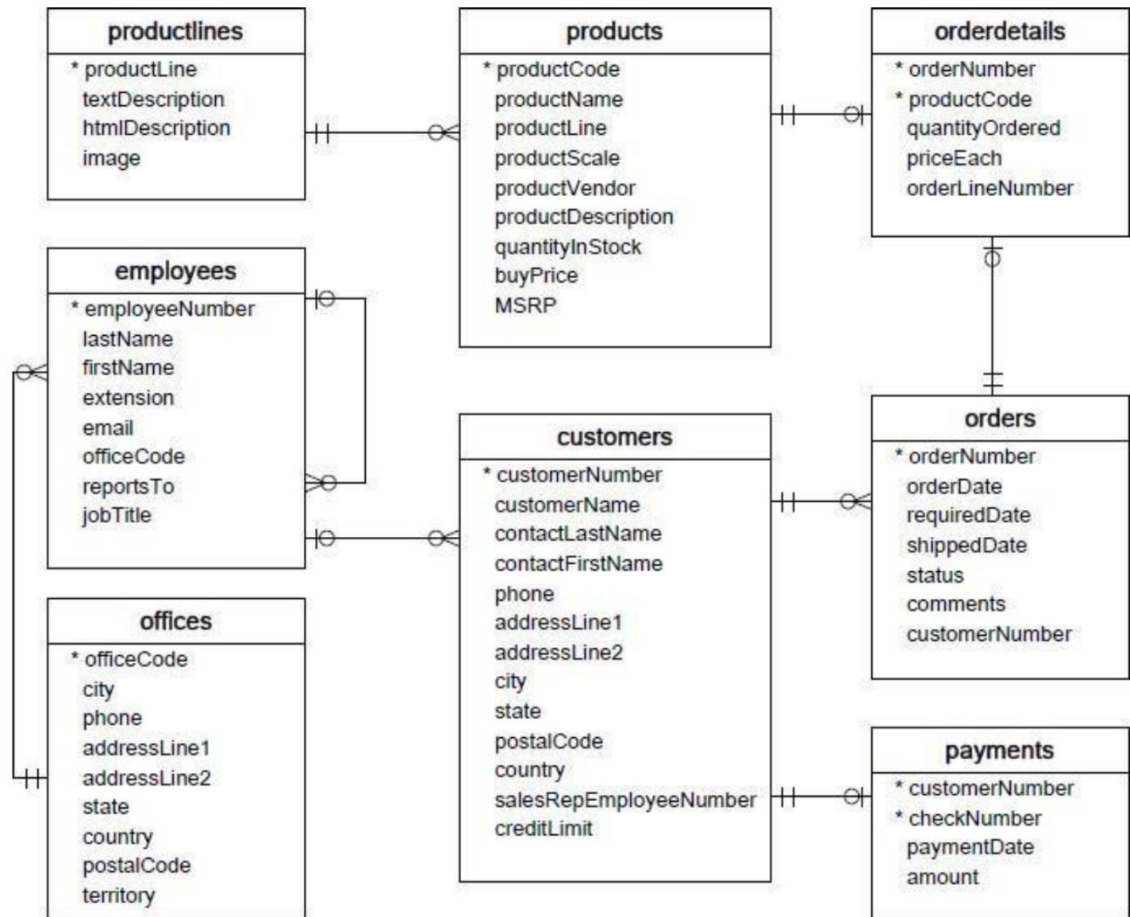# WORKSHEET 4

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).

   SELECT ID, AVG(CountPerDay) AS AvgPerDay FROM orders GROUP BY ID

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

   SELECT ID, AVG(CountPerDay) AS AvgPerDay FROM orders GROUP BY ID

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

   SELECT productName, min(MSPR) from products;

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

   SELECT productName, max(stockQuantity) from products;

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

   SELECT productName, count(productName) from products
   GROUP BY productCode
   ORDER BY count(productName)
   DESC limit 1;

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

```
SELECT customers.customerName, payments.amount from customers
INNER JOIN payments
ON customers.customersNumber=payments.customersNumber
ORDER BY amount
DESC limit 1;
```

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

```
SELECT customersNumber, customerName from customers
where city IN (' Melbourne ');
```

8. Write a SQL query to show name of all the customers whose name start with "N".

```
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'.

```
SELECT customerName from customers
where customersNumber LIKE '7%' AND city IN ('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".

```
SELECT customerName, creditLimit, city 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.

```
SELECT orderNumber from orders where quantityordered <10
```

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

```
SELECT orders.orderNumber from orders
INNER JOIN customers
ON orders.customersNumber = customers.customersNumber
where customerName
LIKE 'N%';
```

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

```
SELECT customers.customerName from customers
INNER JOIN orders
ON customers.customersNumber = orders.customersNumber
where status = 'Disputed' ;
```

14. Write a SQL query to show the customerName who made payment through cheque withcheckNumber starting with H and made payment on "2004-10-19".

```
SELECT customers.customerName from customers
```

INNER JOIN payments
ON customers.customersNumber = payments.customersNumber
where checkNumber LIKE 'H%' and paymentDate = "2004-10-19" ;

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

SELECT checkNumber from payments
where amount > 1000 ;