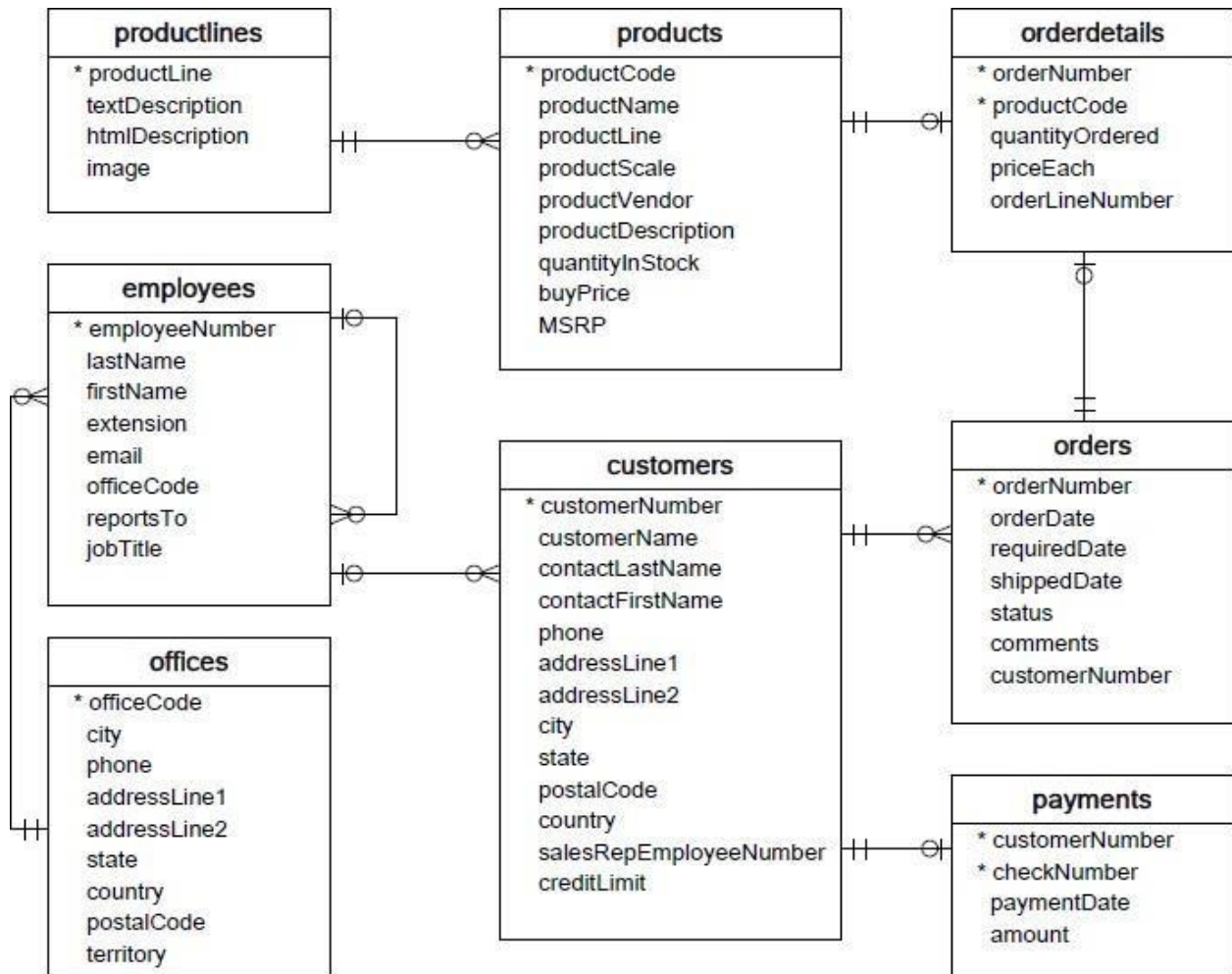


## WORKSHEET 4 SQL

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).

Answer -

**SELECT AVG(orderNumber), shippedDate FROM orders GROUP BY shippedDate;**

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

Answer -

**SELECT AVG(orderNumber), orderDate FROM orders GROUP BY orderDate;**

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

Answer -

**SELECT productName, MIN(MSRP) FROM products;**

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

Answer -

**SELECT productName, MAX(quantityInStock) FROM products;**

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

Answer -

**SELECT p.productName from products p, orderDetails od WHERE p.productCode = od.productCode AND od.quantityordered = (SELECT MAX(quantityordered) FROM orderDetails);**

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

Answer -

**SELECT c.customerName from customer c, payments p WHERE c.customerNumber = p.customerNumber AND p.amount = (SELECT MAX(amount) FROM payments);**

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

Answer -

**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".

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 IN('LasVegas','Nantes','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 -

**SELECT orderNumber.orders FROM orders INNER JOIN Customers ON orders.customerNumber = Customers.customerNumber WHERE Customers.customerName LIKE 'N%';**

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

Answer –

```
SELECT customerName.Customers FROM orders INNER JOIN Customers ON orders.  
customerNumber = Customers.customerNumber WHERE orders .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”.

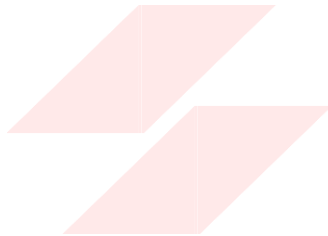
Answer -

```
SELECT customerName.Customers FROM payments INNER JOIN Customers ON  
payments. customerNumber = Customers.customerNumber WHERE checkNumber  
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;
```



# FLIP ROBO