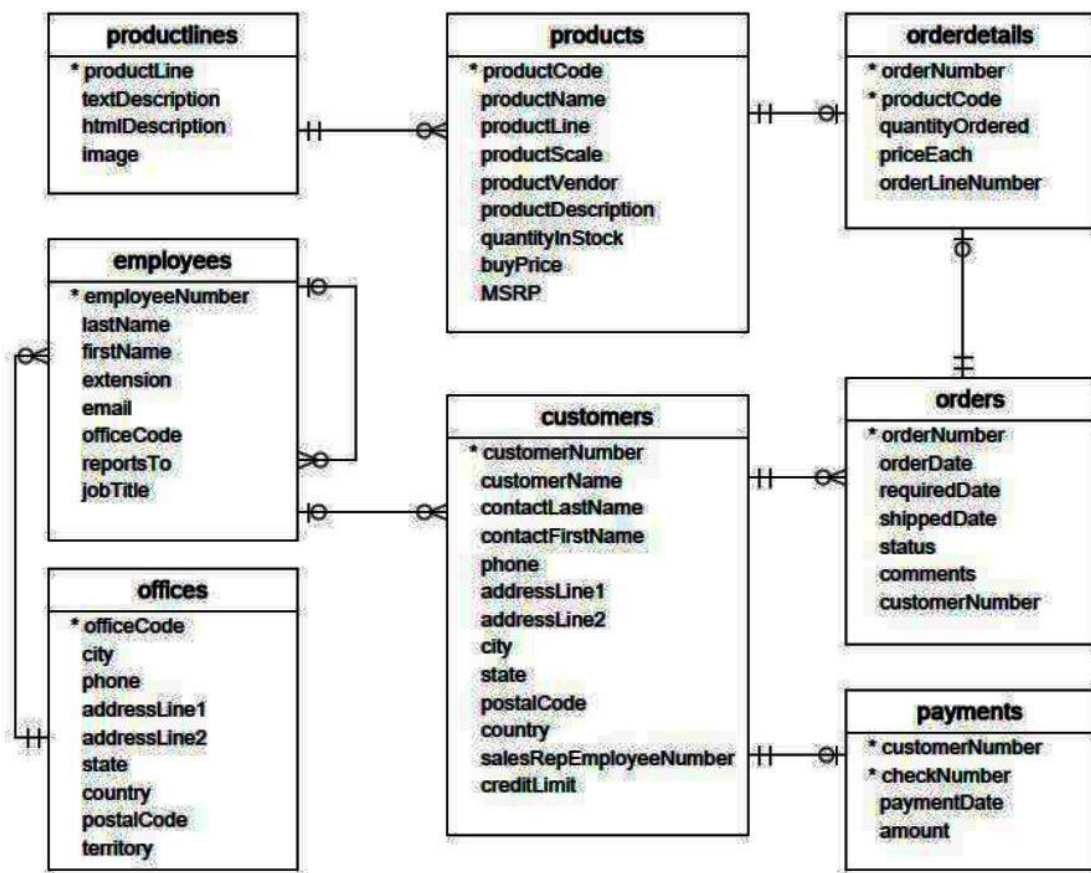


## WORKSHEET - 4 SQL

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.
- **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.

## 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) FROM Orders 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 product;

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 , MAX(quantityordered) FROM orderdetails INNER JOIN products ON orderdetails.`productcode` = products.`productcode`;

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

**Ans.** SELECT customername , MAX(amount) FROM payments INNER JOIN customers ON payments.`customerNumber` = customers.`customerNumber`;

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

**Ans.** SELECT customerNumber, customerName FROM customers WHERE city='Melbourne city';

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

**Ans.** 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 'Las Vegas'.**

**Ans.** SELECT customerName FROM customers WHERE phone LIKE '7\_\_' AND 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 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.**

**Ans.** SELECT orderNumber FROM orderdetails WHERE quantityordered <10;

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

**Ans.** SELECT ordernumber FROM orders WHERE customername LIKE 'N%' INNER JOIN customers ON orders.`customerNumber` = customer.`customerNumber`;

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

**Ans.** SELECT customerName FROM customers WHERE status='Disputed' INNER JOIN orders ON customers.`customerNumber` = orders.`customerNumber`;

**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".**

**Ans.** SELECT customerName FROM customers WHERE checkNumber LIKE 'H%' AND paymentDate='2004-10-19' INNER JOIN payments ON customers.`customerNumber` = payments.`customerNumber`;

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

**Ans.** SELECT checkNumber FROM payments WHERE amount > 1000;