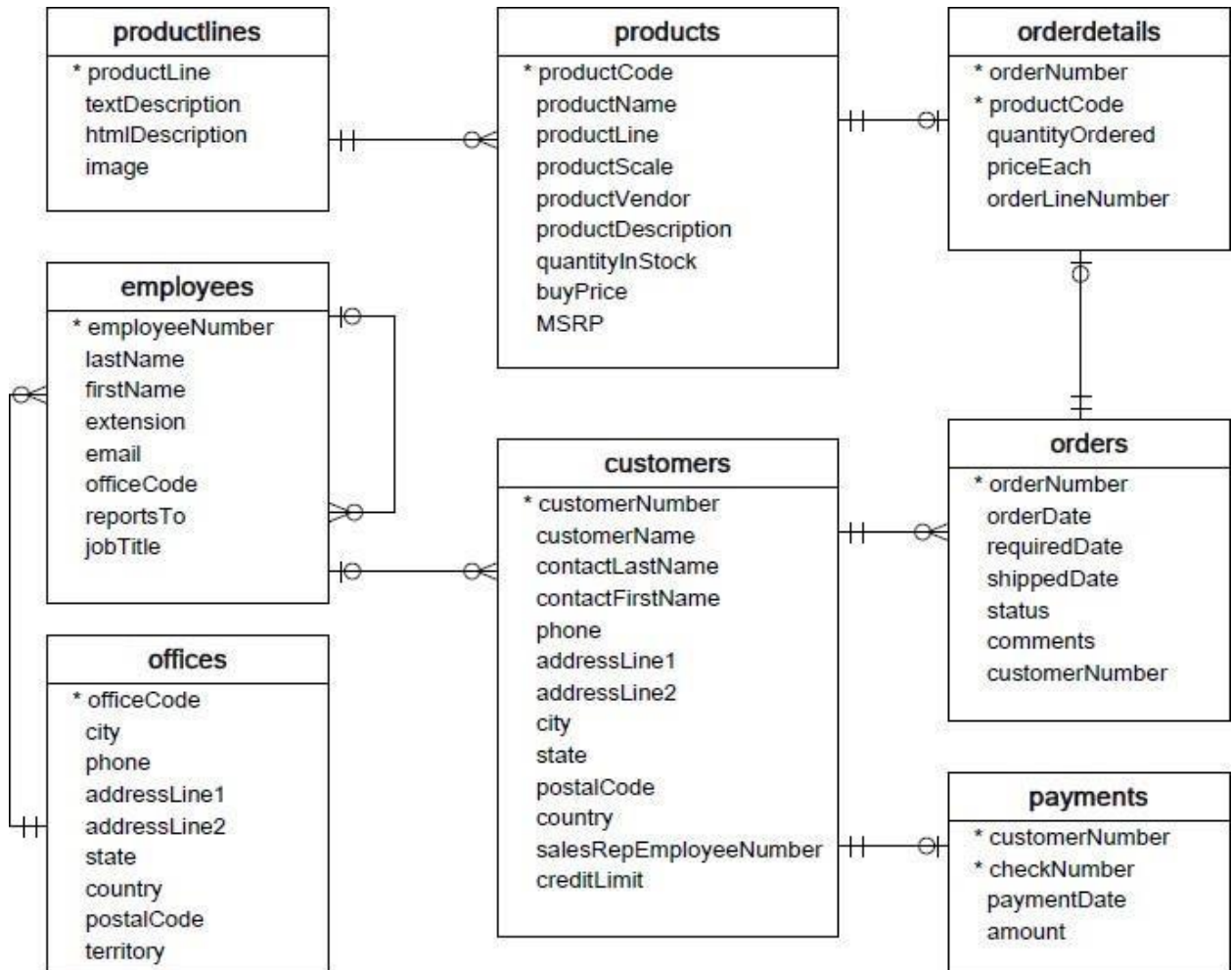


WORKSHEET 4 SQL

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).
2. Write a SQL query to show average number of orders placed in a day.
3. Write a SQL query to show the product name with minimum MSRP (use Products table).

4. Write a SQL query to show the product name with maximum value of stockQuantity.
5. Write a query to show the most ordered product Name (the product with maximum number of orders).
6. Write a SQL query to show the highest paying customer Name.
7. Write a SQL query to show customerNumber, customerName of all the customers who are from Melbourne city.
8. Write a SQL query to show name of all the customers whose name start with "N".
9. Write a SQL query to show name of all the customers whose phone start with '7' and are from 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".
11. Write a SQL query to show all the orderNumber in which quantity ordered <10.
12. Write a SQL query to show all the orderNumber whose customer Name start with letter 'N'.
13. Write a SQL query to show all the customerName whose orders are "Disputed" in status.
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".
15. Write a SQL query to show all the checkNumber whose amount > 1000.

Answers

1. `select avg(ordershippedperday) from (select count (orderNumber) as ordershippedperday from orders group by shippedDate) as count_table;`
2. `select avg(ordersplacedperday) from (select count(orderNumber) as ordersplacedperday from orders group by orderDate) as count_table;`
3. `select productName from products where MSRP=(select min(MSRP) from products);`
4. `select productName from products where quantityInStock=(select max(quantityInStock) from products);`
5. `select productName from orderdetails join products on orderdetails.productCode=products.productCode group by orderdetails.productCode order by sum(quantityOrdered) desc limit 1;`
6. `select customerName from payments join customers on payments.customerNumber=customers.customerNumber order by amount desc limit 1;`
7. `select customerName,customerNumber from customers where city like 'Melbourne%';`

8. select customerName from customers where customerName like 'N%';
9. select customerName, phone, city from customers where phone like '7%' and city = 'LasVegas';
10. select customerName from customers where creditLimit < 1000 and city in ('Las Vegas','Nantes','Stavern');
11. select orderNumber from orderdetails where quantityOrdered < 10 ;
12. select orderNumber from customers join orders on customers.customerNumber = orders.customerNumber where customerName like 'N%';
13. select customerName from customers join orders on customers.customerNumber = orders.customerNumber where status='disputed';
14. select customerName from payments join customers on payments.customerNumber = customers.customerNumber where checkNumber like 'H%' and paymentDate='2004-10-19';
15. select checkNumber from payments where amount > 1000;