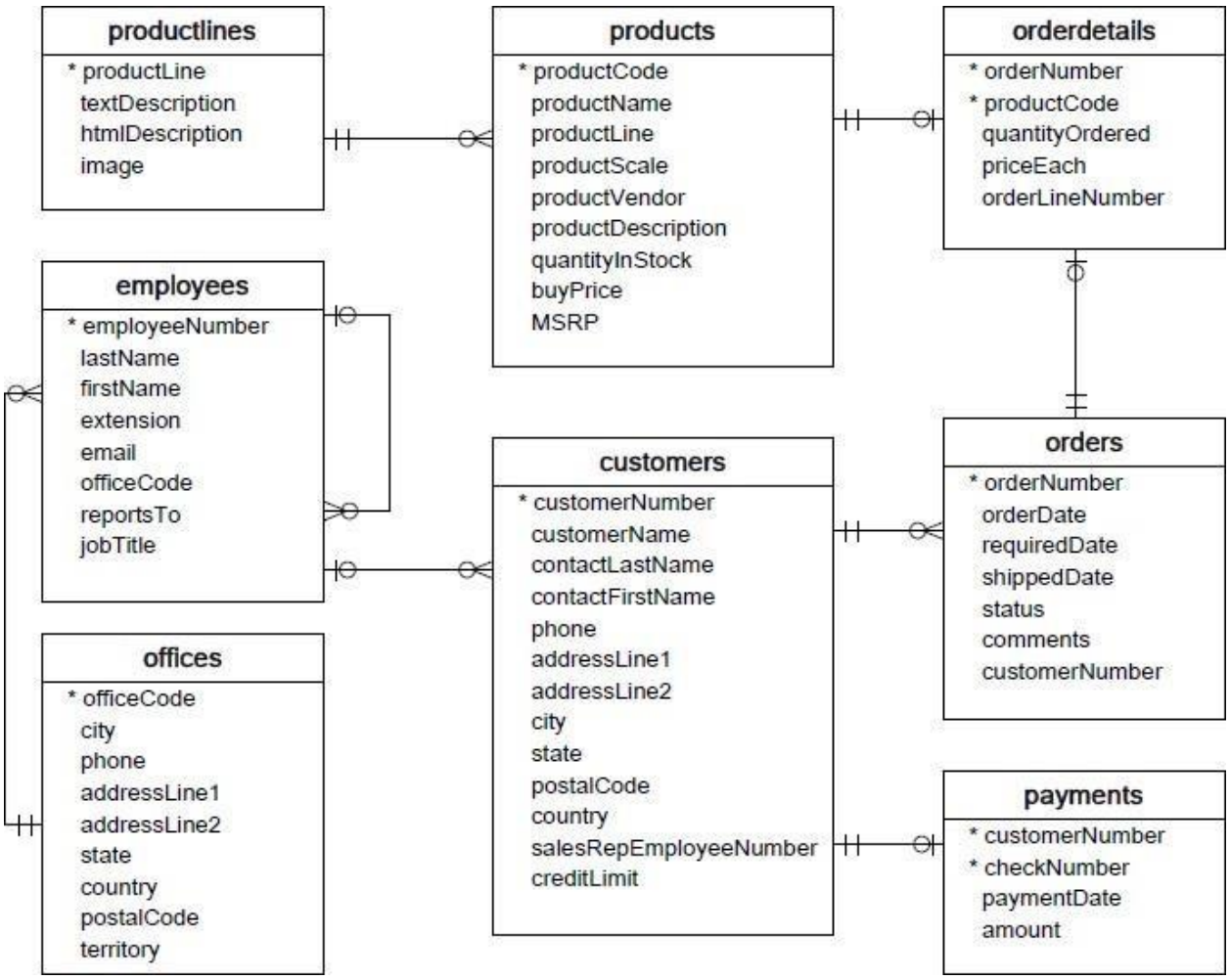
WORKSHEET 4 SQL

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 towhom.
- **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 avg(orderNumber) from order where status="shipped";

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

Ans. select(select count(orderDate) from orders)/(select count(distinct(orderDate)) from orders) as average_order_products_per_day;

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

Ans. select productName from products where MSRP=(select MIN(MSRP) from products);

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

Ans. select productName from products where quantityInStock=(select MAX (quantityInStock) from products);;

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

Ans. SELECT p.productName FROM products as p JOIN orderdetails as o using(productCode) GROUP BY p.productCode ORDER BY Sum(quantityOrdered) DESC LIMIT 1;

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

Ans. select c.customerNumber,c.customerName,p.amount from customers as c JOIN payments as p USING(customerNumber) order by amount desc limit 1;

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

Ans. 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”.

Ans. select customerNumber, 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’.

Ans. select customerNumber, customerName from customers where city='Las Vegas' and phone like '^7.*';

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 customerNumber, customerName from customers where city='Las vegas' or city='Stavern' or city='Nantes' and creditLimit < 1000;

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 o.ordernumber,c.customerName from orders as o JOIN customers as c using(customerNumber) where customerName like 'N%';

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

Ans. SELECT c.customerName from customers as c JOIN orders as o using (customerNumber) WHERE 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”.

Ans. select c.customerName from customers as c JOIN payments as p using(customerNumber) where

checkNumber like 'H%';

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

Ans. select checkNumber, amount from payments where amount >1000;

16.