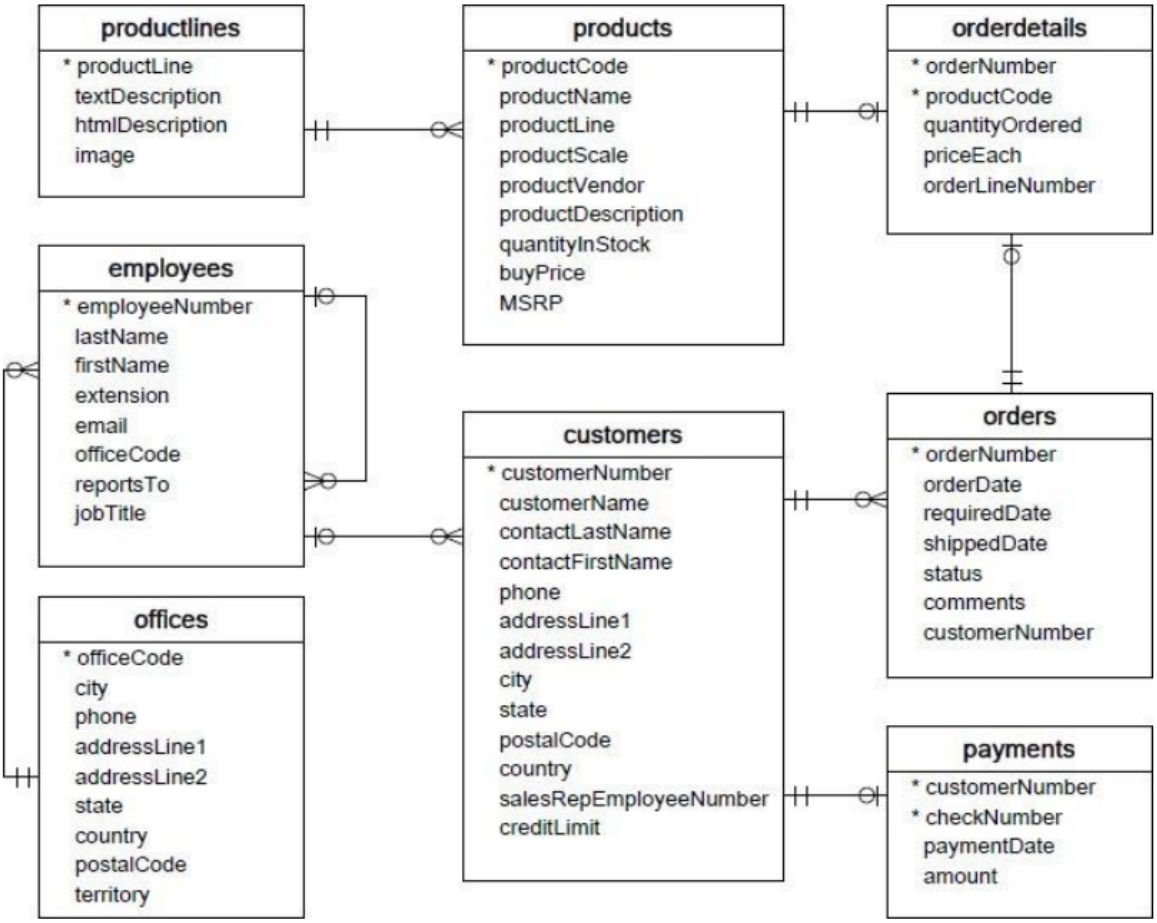
WORKSHEET 4 SQL

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.

1. Write a SQL query to show the average number of orders shipped in a day (use Orders table).

Ans: Select avg(ordershippedperday) from (select count(orderNumber) as ordershippedperday from orders group by shippedDate) as count_table;

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

Ans: Select avg(ordersperday) from (select count(orderNumber) as ordersperdayfrom orders group by orderDate) as count_table;

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

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 ofstockQuantity.

Ans: Select productName from products where quantityInStock=(selectmax(quantityInStock) from products);

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

Ans: Select productName from orderdetails join products on orderdetails.productCode=products.productCode group by orderdetails.productCode order by sum(quantityOrdered) desc limit 1;

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

Ans: Select customerName from payments join customers on payments.customerNumber=customers.customerNumber order by amount desc limit 1;

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

Ans: Select customerName,customerNumber from customers where city like 'Melbourne%';

8. Write a SQL query to show the name of all the customers whose name starts with “N”.

Ans: Select customerName from customers where customerName like 'N%';

9. Write a SQL query to show the name of all the customers whose phone starts with ‘7’ and are from the city ‘LasVegas’.

Ans: Select customerName,phone,city from customers where phone like '7%' and city like 'las%as';

10. Write a SQL query to show the 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 is ordered <10.

Ans: Select orderNumber from orderdetails where quantityOrdered < 10 ;

12. Write a SQL query to show all the orderNumber whose customer Name starts with letter ‘N’.

Ans: Select orderNumber from customers join orders on customers.customerNumber=orders.customerNumber where customerName like 'N%';

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

Ans: Select customerName from customers join orders on customers.customerNumber=orders.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 customerName from payments 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.

Ans: Select checkNumber from payments where amount > 1000;