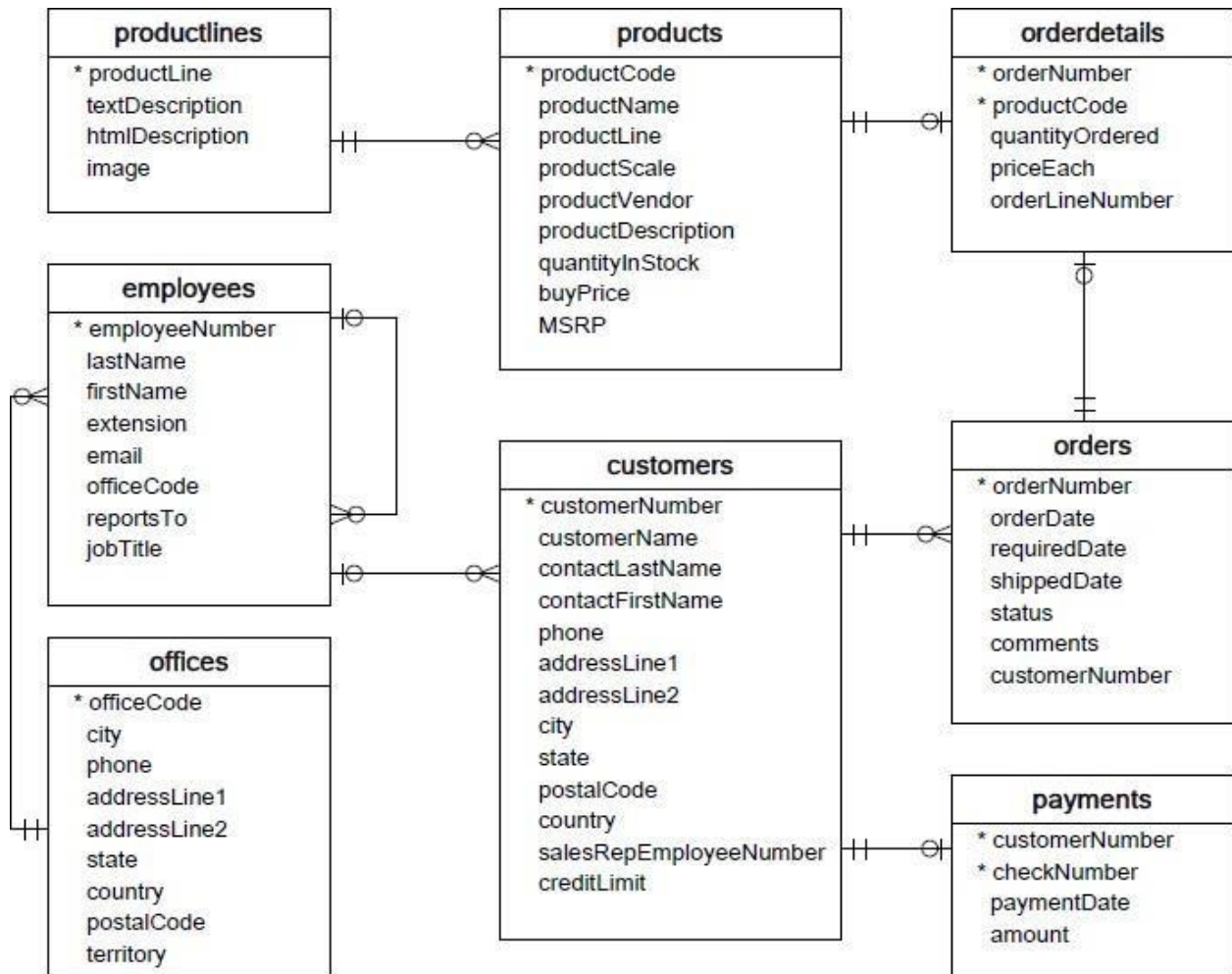# WORKSHEET 4  SQL

**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).

   Select shippeddate ,avg(count(ordernumber)) from orders groupby shippeddate

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

   Select orderdate,avg(count(ordernumber)) from orders groupby orderdate

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

   Select productname, min(MSRP) from products

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

   Select productname, max(quantityinstock) from products

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

   Select p.productcode,max(o.quantityordered),p.productname from products p, orderdetails o where p.productcode=o.productcode

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

   Select c.customername, p.max(amount) from customers c,payments p where c.customernumber=p.customernumber

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

   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".

   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'.

   Select customername from customers where phonenumber startswith '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".

    Select customername from customers where creditlimit<1000 and city in('LasVegas' or 'Nantes' or 'Stavern')

11. Write a SQL query to show all the orderNumber in which quantity ordered <10.

    Select ordernumber from orderdetails where quantityordered<10

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

    Select ordernumber from orderdetails where customername=(select customername from customer where name like 'N%')

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

    Select c.customername , o.status from customer c, orders o where o.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".

    Select customername, checknumber from payments where customername like 'H%' and paymentdate='2004-10-19'

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

    Select checknumber from payments where amount>1000