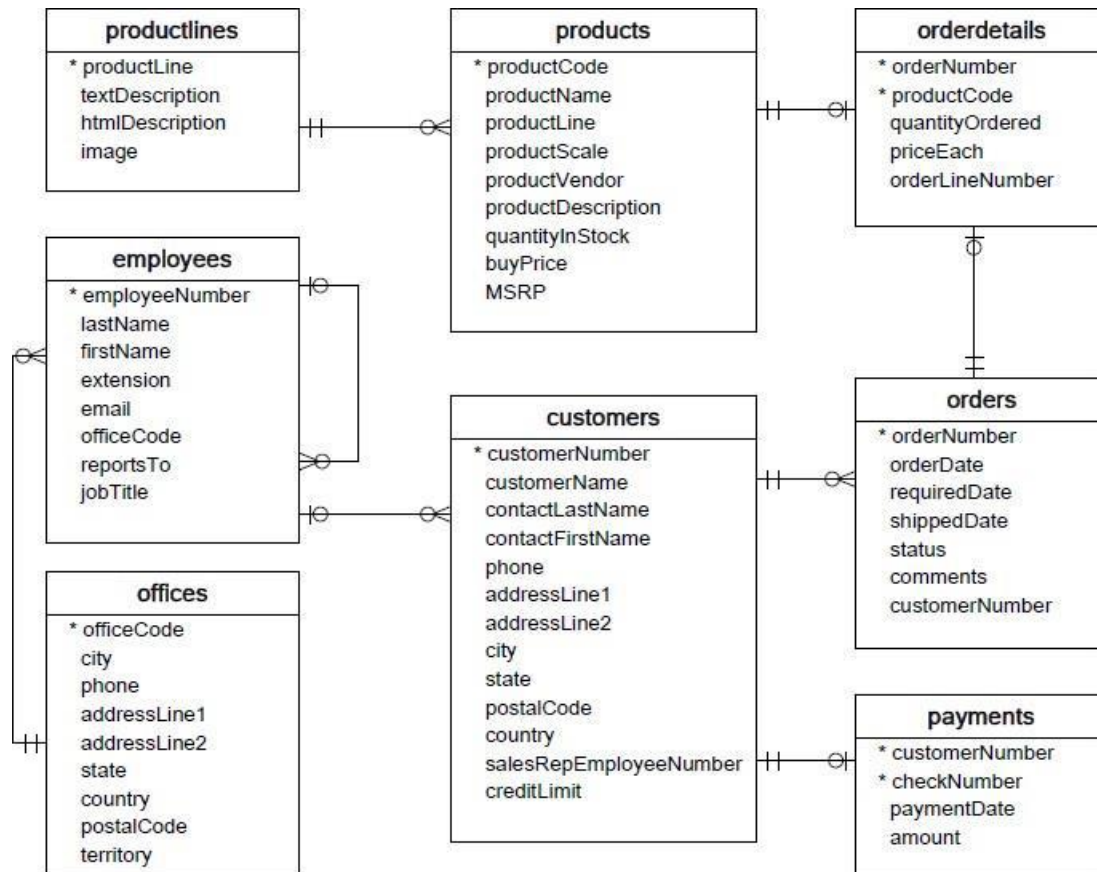## WORKSHEET 4 SQL

Refer to the following ERD and answer all the questions in this worksheet. You have to write the queries using MySQL for the required Operation.

- **Customers**: store 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.

WORKSHEET 4 SQL

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

Answer: SELECT ordernumber, shippeddate FROM Orders WHERE ordernumber = (SELECT avg(ordernumber) FROM Orders);

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

Answer: SELECT ordernumber, orderdate FROM Orders WHERE ordernumber = (SELECT avg(ordernumber) FROM Orders);

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

Answer: SELECT productname, MSRP FROM Products WHERE MSRP = (SELECT MIN(MSRP) FROM Products);

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

Answer: SELECT productname, quantityinstock 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).

Answer: SELECT productName, COUNT(DISTINCT productCode) FROM Products GROUP BY productName ORDER BY DESC;

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

Answer: SELECT * Top customername from customers join payements on customers.customernumber=payments.customernumber group by customername order by count(*) DESC;

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

Answer: SELECT cutomerNumber, customerName FROM Customers WHERE city= 'Melbourne city';

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

Answer: SELECT * 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'.

Answer: SELECT * customerName FROM Customers WHERE city= 'Las Vegas'and WHERE phone='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".

Answer: SELECT customername from Customer where creditlimit<1000 and city=' "Las Vegas" or "Nantes" or "Stavern" ;

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

Answer: SELECT ordernumber from Orderdetails where quantityorderd < 10 ;

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

Answer: select ordernumber from Orders join Customers on customers.customernumber=ordernumber.customernumber WHERE customername LIKE 'N%' ;

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

Answer: Select ordernumber from Orders join Customers on customers.customernumber=status.customernumber WHERE (status = "Disputed") ;

14. Write a SQL query to show the customerName who made payment through cheque with checkNumber startingwith H and made payment on "2004-10-19"

Answer: Select customerNumber from payments Customers on customers.customernumber=checkNumber.customernumber WHERE (paymentDate = "2004-10-19" AND checkNumber LIKE 'H%') ;

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

Answer: SELECT checkNumber FROM Payments WHERE amount > 1000;