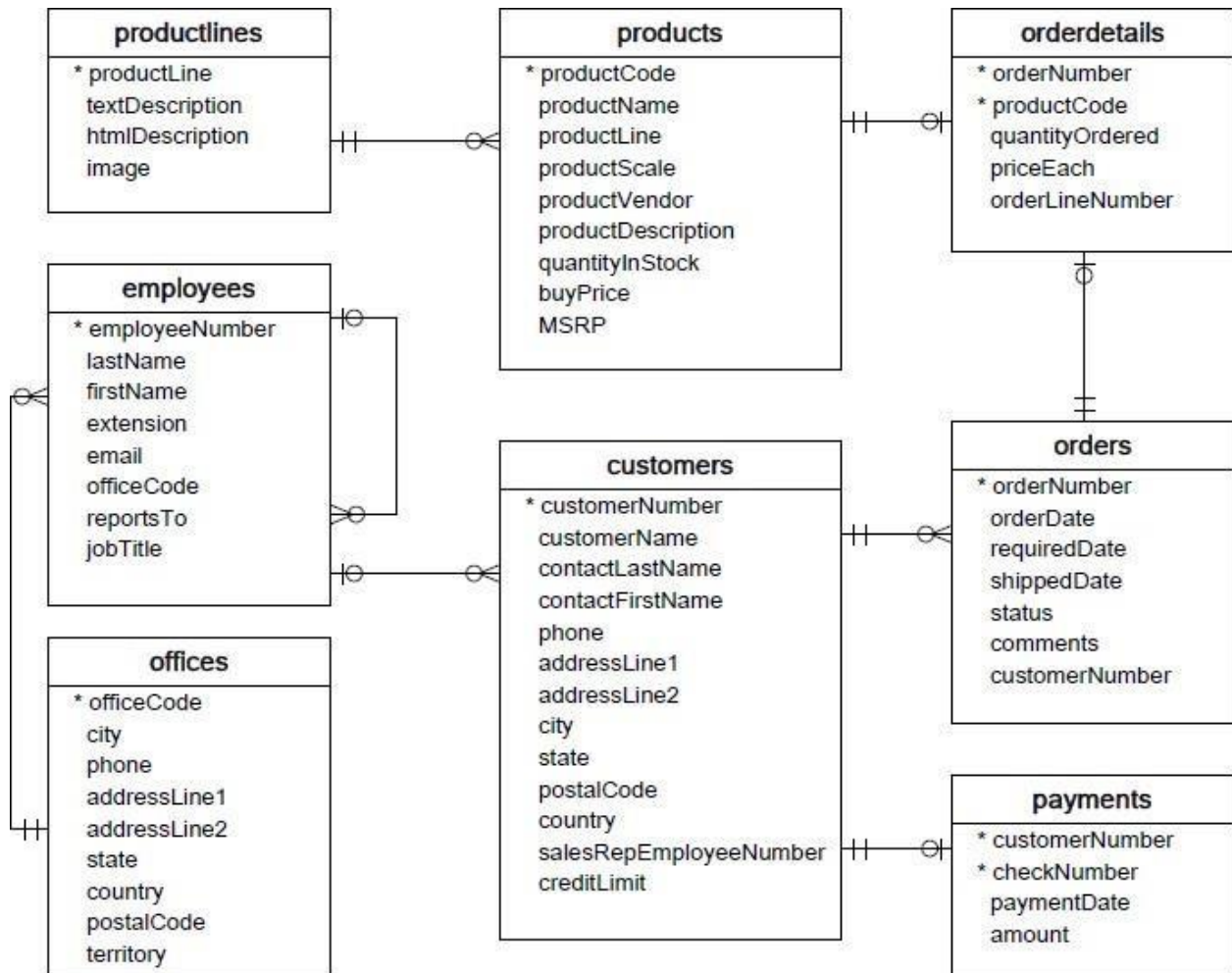# WORKSHEET 4 SQL

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

MySQL for the required Operation.

productlines
* productLine
  textDescription
  htmlDescription
  image

products
* productCode
  productName
  productLine
  productScale
  productVendor
  productDescription
  quantityInStock
  buyPrice
  MSRP

orderdetails
* orderNumber
* productCode
  quantityOrdered
  priceEach
  orderLineNumber

employees
* employeeNumber
  lastName
  firstName
  extension
  email
  officeCode
  reportsTo
  jobTitle

customers
* customerNumber
  customerName
  contactLastName
  contactFirstName
  phone
  addressLine1
  addressLine2
  city
  state
  postalCode
  country
  salesRepEmployeeNumber
  creditLimit

orders
* orderNumber
  orderDate
  requiredDate
  shippedDate
  status
  comments
  customerNumber

offices
* officeCode
  city
  phone
  addressLine1
  addressLine2
  state
  country
  postalCode
  territory

payments
* customerNumber
* checkNumber
  paymentDate
  amount

- **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).

   Select avg(orderNumber)
   from orders
   where shippedDate = 'Tuesday';

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

   SELECT orderDate(order_placed_date) ,avg(orderNumber) AS avg_total
   FROM Orders
   GROUP BY orderDate(order_placed_date)

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

   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.

   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).

   Select productName
   From products
   Where productScale = (Select max(prodcutScale) from products);

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

   Select customerName
   From customers
   Where creditLimit = (Select max(creditLimit) from customers);

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 the name of all the customers whose name starts with "N".

   Select *
   From customers

   Where customerName like 'N%';

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

   select customerName

   From customers

   Where phone like "7%" and city = "LasVegas";

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".

> **Select customerName**
> **From customers**
> **Where creditLimit < 1000 and city between "Las Vegas" or "Nantes" or "Stavern";**

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

> **Select orderNumber**
> **From orders**
> **Where quantityOrdered < 10;**

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

> **Select orderNumber**
> **From orders**
> **Where customerName like "N%";**

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

> **Select customerNumber**
> **From orders**
> **Where status = "Disputed";**

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

> **Select customerNumber**
> **From payments**
> **Where checkNumber 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;**