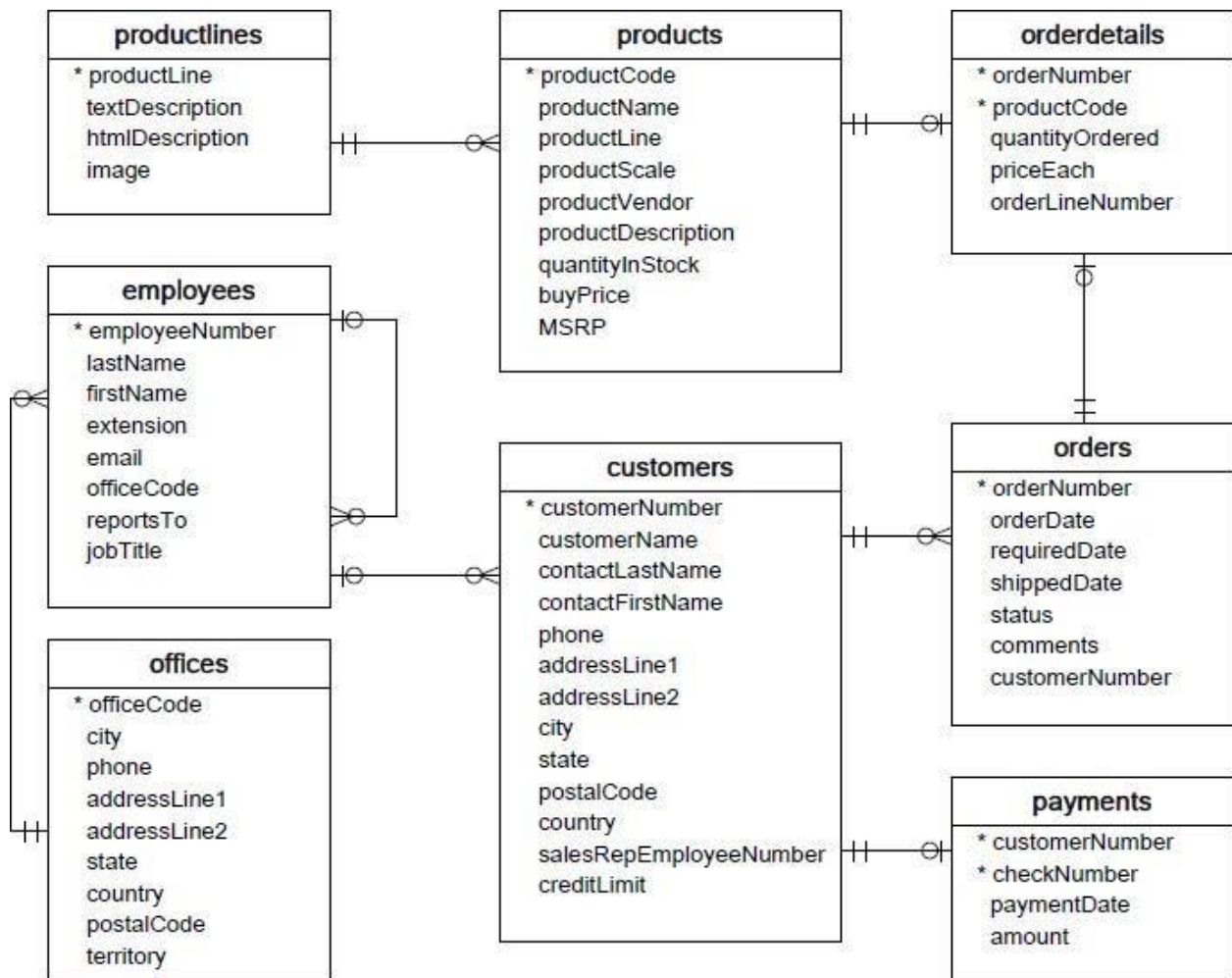


## ANSWERSHEET

### 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.

#### QUESTIONS:

1. Write a SQL query to show average number of orders shipped in a day (use Orders table).  
Ans. 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.  
Ans. `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 Products table).  
Ans. `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 ofstockQuantity.  
Ans. `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 oforders).  
Ans. `SELECT productName, COUNT(DISTINCT productCode) FROM Products GROUP BY productName ORDER BY 2 DESC;`
  6. Write a SQL query to show the highest paying customer Name.  
Ans. `SELECT * Top 1 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.  
Ans. `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".  
Ans. `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'.  
Ans. `SELECT * customerName FROM Customers WHERE city= 'Las Vegas'and WHEREphone='^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 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.  
Ans. `SELECT ordernumber from Orderdetails where quantityorderd < 10 ;`
  12. Write a SQL query to show all the orderNumber whose customer Name start with letter 'N'.  
Ans. `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.
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Ans. 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 starting with H and made payment on "2004-10-19".

Ans. 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.

Ans. SELECT checkNumber FROM Payments WHERE amount > 1000;

