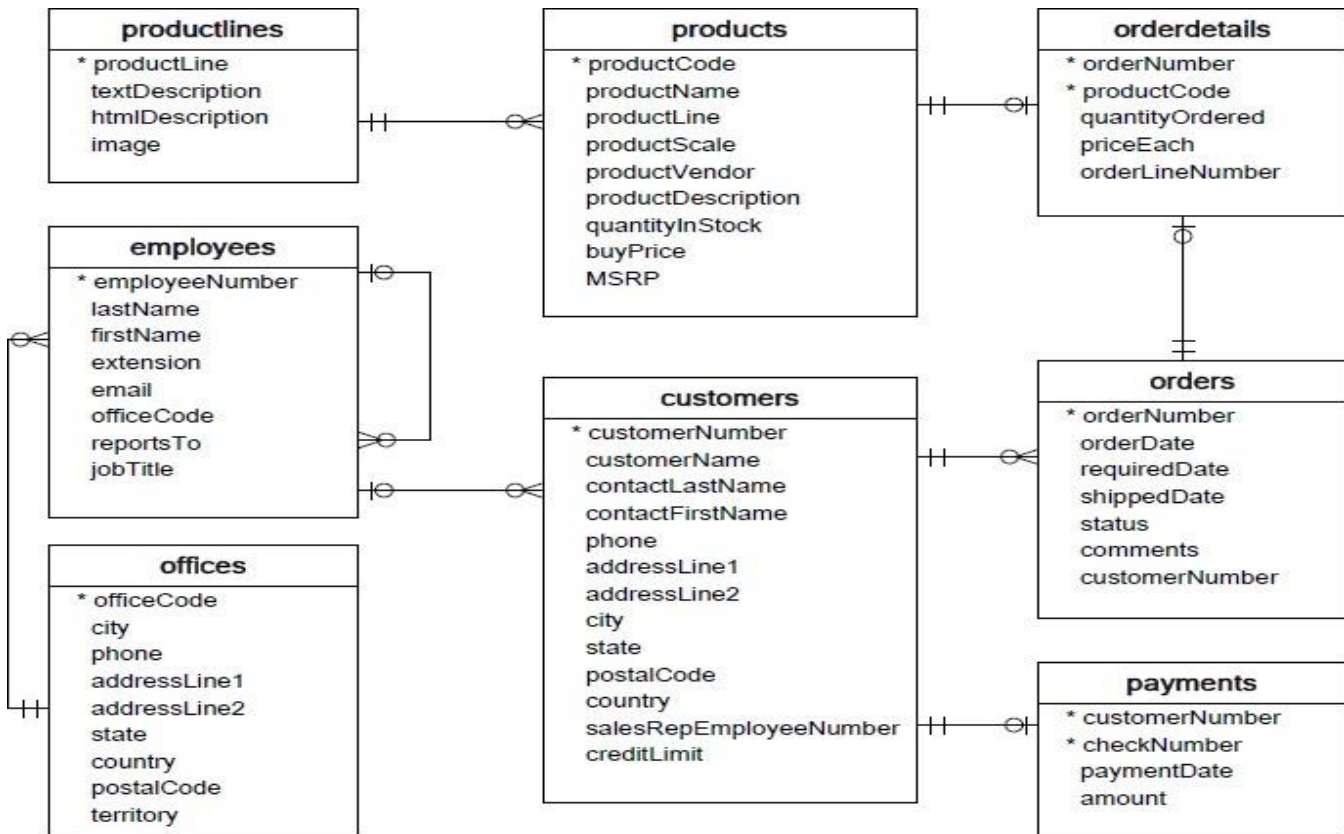


## SQL – WORKSHEET 4

Please go through the below ERD before referring the answers.



- **Customers:** stores customer's data.
- **Products:** stores a list of scale model cars.
- **ProductLines:** stores a list of product line categories.
- **Orders:** stores sales orders placed by customers.
- **OrderDetails:** 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.

### Answers:

1. WITH x AS (SELECT `shippedDate`, COUNT(`orderNumber`) AS `total\_orders` FROM Orders)  
SELECT AVG(`total\_orders`) AS `AverageNumberOfOrdersShipped` FROM x;
2. WITH x AS (SELECT `orderDate`, COUNT(`orderNumber`) AS `total\_orders` FROM Orders)  
SELECT AVG(`total\_orders`) AS `AverageNumberOfOrdersPlaced` FROM x;
3. SELECT `productName` FROM Products  
ORDER BY MSRP  
LIMIT 1;

4. `SELECT `productName` FROM Products  
ORDER BY `quantityInStock` DESC  
LIMIT 1;`
5. `SELECT `b.productName`  
FROM OrderDetails AS a INNER JOIN Products AS  
b ON a.`productCode` = b.`productCode`  
GROUP BY b.`productCode`  
ORDER BY COUNT(`orderNumber`)  
DESC LIMIT 1;`
6. `WITH x AS (SELECT a.customerName, b.SUM(amount) AS  
total_payment FROM Customers AS a INNER JOIN  
Payments b  
ON a.customerNumber =  
b.customerNumber GROUP BY  
customerName)  
SELECT customerName, total_payment FROM x  
WHERE total_payment = (SELECT MAX(total_payment) FROM x);`
7. `SELECT `customerNumber`, `customerName` FROM Customers  
WHERE `city` = "Melbourne";`
8. `SELECT `customerName` FROM Customers  
WHERE `customerName` REGEXP `^N.*`;`
9. `SELECT `customerName` FROM Customers  
WHERE `phones` REGEXP `^7[0-9]*` AND `city` = "Las Vegas";`
10. `SELECT `customerName` FROM Customers  
WHERE `creditLimit` < 1000 AND `city` IN ("Las Vegas", "Nantes", "Stavern");`
11. `SELECT `orderNumber` FROM orderDetails  
WHERE `quantityOrdered` < 10;`
12. `SELECT `b.orderNumber`  
FROM Customers AS a INNER JOIN orders AS b  
ON a.customerNumber = b.customerNumber  
WHERE `customerName` REGEXP `^N.*`;`
13. `SELECT `b.customerName`  
FROM Orders AS a INNER JOIN Customers AS  
b ON a.`customerNumber` = b.`customerNumber`  
WHERE `status` = "Disputed";`
14. `SELECT `b.customerName`  
FROM Payments AS a INNER JOIN Customers AS b  
ON a.customerNumber = b.customerNumber  
WHERE `a.paymentDate` = "2004-10-19" AND  
`a.checkNumber` REGEXP `^H.*`;  
SELECT `checkNumber` FROM Payments WHERE `amount` > 1000;`