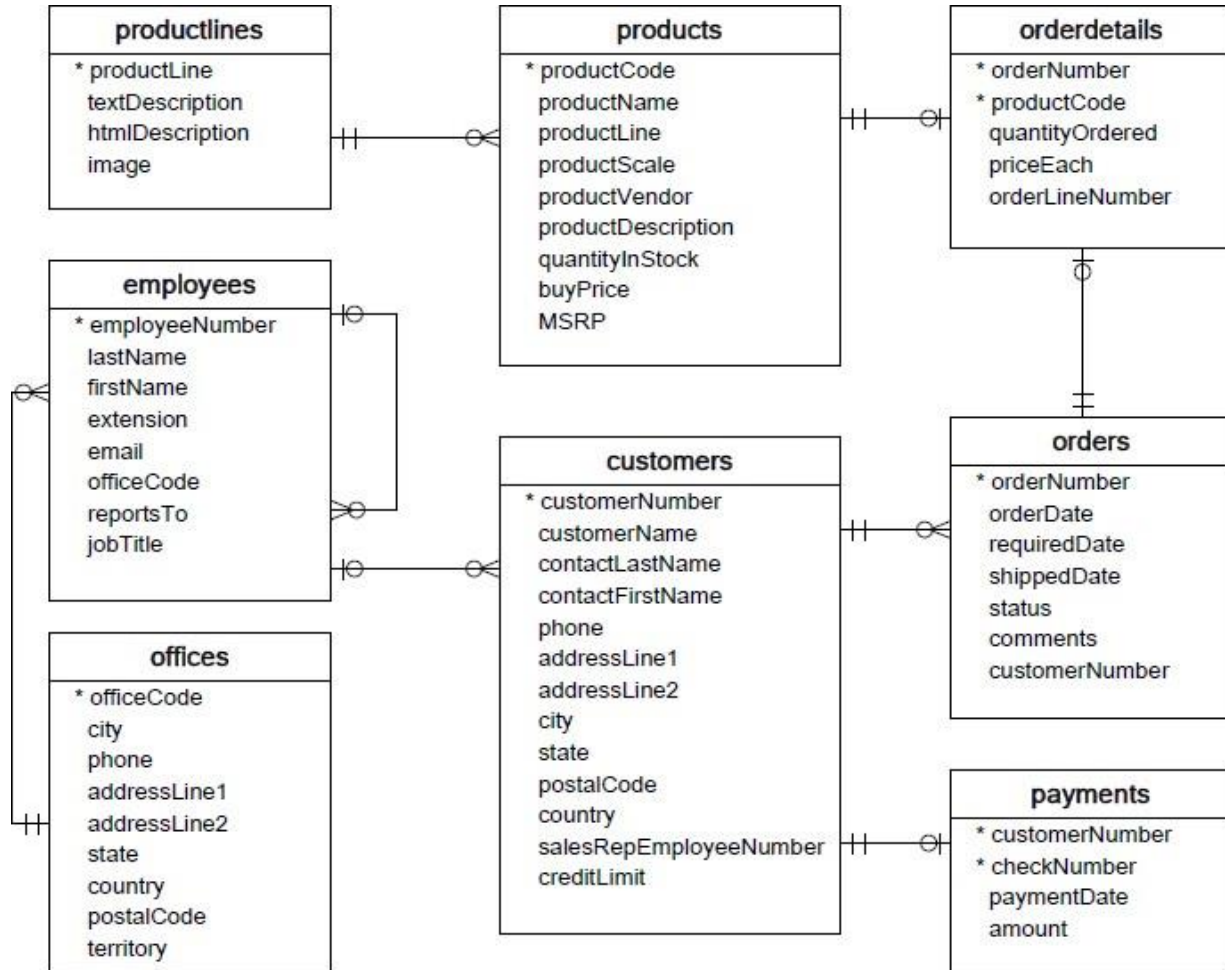


WORKSHEET 4 ANSWER KEY SQL

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 `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 customerName, 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.*" 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 `orderNumber`
FROM Customers AS a INNER JOIN orders AS b ON a.customerNumber = b.customerNumber WHERE
`customerName` REGEXP "^B.*";`
13. `SELECT `customerName`
FROM Orders AS a INNER JOIN Customers AS b ON
a.`customerNumber` = b.`customerNumber` WHERE
`status` = "Disputed";`
14. `SELECT `customerName`
FROM Payments INNER JOIN Customers USING (`customerNumber`) WHERE
`paymentDate` = "2004-10-19" AND `checkNumber` REGEXP "^H.*";`
15. `SELECT `checkNumber` FROM Payments
WHERE `amount` > 1000;`