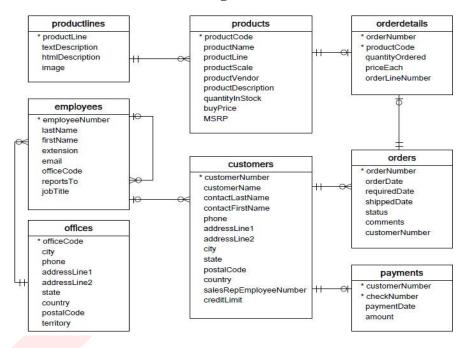


WORKSHEET 3 ANSWERKEYS SQL

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. CREATE TABLE `customers` (`customerNumber` int(11) NOT NULL,

`customerName` varchar(50) NOT NULL,

`contactLastName` varchar(50) NOT NULL,

`contactFirstName` varchar(50) NOT NULL,

`phone` varchar(50) NOT NULL,

`addressLine1` varchar(50) NOT NULL,

`addressLine2` varchar(50) DEFAULT NULL,

`city` varchar(50) NOT NULL,

`state` varchar(50) DEFAULT NULL,

`postalCode` varchar(15) DEFAULT NULL,

`country` varchar(50) NOT NULL,

`salesRepEmployeeNumber` int(11) DEFAULT NULL,

`creditLimit` decimal(10,2) DEFAULT NULL,

PRIMARY KEY ('customerNumber'),

KEY `salesRepEmployeeNumber` (`salesRepEmployeeNumber`),

FOREIGN KEY (`salesRepEmployeeNumber`)

REFERENCES 'employees' ('employeeNumber')

);



- 3. SELECT * FROM Orders;
- 4. SELECT `comments` FROM Orders;
- SELECT `orderDate`, COUNT(`orderNumber`) as `Total number of orders` FROM Orders GROUP BY `orderDate`;
- 6. SELECT 'employeeNumber', 'lastName', 'firstName' FROM Employees;
- 7. SELECT `orderNumber` ,`customerName`
 FROM Orders INNER JOIN customers
 ON orders.`customerNumber`= customers.`customerNumber`;
- 8. SELECT `customerName` , CONCAT(`firstName`,`lastName`)
 FROM employees INNER JOIN customers
 ON Employees.`employeeNumber`= customers.`salesRepEmployeeNumber`;
- SELECT `paymentDate`, SUM(amount)
 FROM payments
 GROUP BY `paymentDate`;
- 10. SELECT `productName`, `MSRP`, `productDescription` FROM products;
- 11. SELECT `productName`, `productDescription` FROM Products INNER JOIN Orderdetails
 ON Products. `productCode` = Orderdetails. `productCode` GROUP BY Products. `productCode` ORDER BY SUM(`quantityOrdered`) DESC LIMIT 1:
- 12. SELECT `city` FROM Orders as a INNER JOIN Customers as b ON a.`customerNumber` = b.`customerNumber` GROUP BY `city` ORDER BY COUNT(`orderNumber`) DESC LIMIT 1;



13. SELECT `state` FROM Customers GROUP BY `state` ORDER BY COUNT(`customerNumber`) DESC LIMIT 1;

- 14. SELECT 'employeeNumber', concat('firstName', 'lastName') as 'Full name' FROM Employees;
- 15. SELECT `orderNumber`, `customerName`, `quantityOrdered` * `priceEach` as `total amount paid` FROM OrderDetails as a INNER JOIN Orders as b ON a.`orderNumber` = b.`orderNumber`

INNER JOIN Customers as c

ON b.`customerNumber` = c.`customerNumber`;

