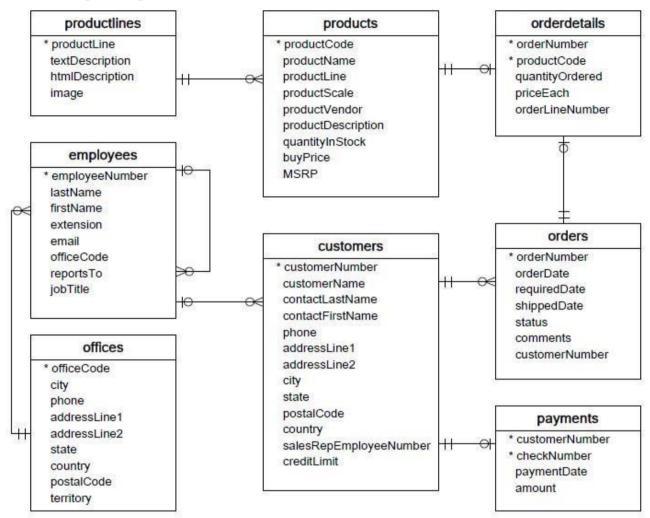


WORKSHEET 3 SQL

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.
- **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.
 - 1. Write SQL query to create table Customers.

```
customerNumber int NOT NULL, customerName varchar(25), contactLastName varchar(25), contactFirstName varchar(25), phone int, addressLine1 varchar(50), addressLine2 varchar(50), city char(25), state char(25), postalCode int,
```



```
country char(25),
salesRepEmployeeNumber int,
creditLimit float,
PRIMARY KEY(customerNumber)
);
```

2. Write SQL query to create table Orders.

```
CREATE TABLE orders(
orderNumber int NOT NULL,
orderDate Date,
requiredDate Date,
shippedDate Date,
status char(25),
comments varchar(50),
customerNumber int,
PRIMARY KEY(orderNumber)
);
```

3. Write SQL query to show all the columns data from the **Orders** Table.

SELECT * FROM orders:

4. Write SQL query to show all the comments from the **Orders** Table.

SELECT comments

FROM orders:

5. Write a SQL query to show orderDate and Total number of orders placed on that date, from **Orders**table.

SELECT orderDate, COUNT(orderNumber) as num_orders

FROM orders

GROUP BY orderDate;

6. Write a SQL query to show employeNumber, lastName, firstName of all the employees from **employees** table.

SELECT employeeNumber, lastName, firstName

FROM employees;

7. Write a SQL query to show all orderNumber, customerName of the person who placed the respective order.

SELECT o.orderNumber, c.customerName

FROM orders o INNER JOIN customers c

ON o.customerNumber = c.customerNumber;

8. Write a SQL query to show name of all the customers in one column and salerepemployee name in another column.

SELECT customerName, salesRepEmployeeNumber

FROM customers;

9. Write a SQL query to show Date in one column and total payment amount of the payments made on that date from the **payments** table.

SELECT paymentDate, SUM(amount) as totalPayment

FROM orders

GROUP BY paymentDate;



10. Write a SQL query to show all the products productName, MSRP, productDescription from the **products** table.

SELECT productName, MSRP, productDescription

FROM products;

11. Write a SQL query to print the productName, productDescription of the most ordered product.

SELECT p.productName, p.productDescription

FROM products p

WHERE(

SELECT o.productCode

FROM orderdetails o

ORDER BY COUNT(o.productCode) desc limit 1);

12. Write a SQL query to print the city name where maximum number of orders were placed.

SELECT c.city

FROM customers c INNER JOIN orders o

ON c.customerNumber = o.customerNumber

GROUP BY c.city

ORDER BY COUNT(o.orderNumber) desc limit 1;

13. Write a SQL query to get the name of the state having maximum number of customers.

SELECT c.state

FROM customers c

GROUP BY c.state

ORDER BY COUNT(DISTINCT customerNumber) desc limit 1);

14. Write a SQL query to print the employee number in one column and Full name of the employee in the second column for all the employees.

SELECT employeeNumber, CONCAT(firstName,' ', lastName) AS Full_Name FROM employees;

15. Write a SQL query to print the orderNumber, customer Name and total amount paid by the customer for that order (quantityOrdered × priceEach).

SELECT o.orderNumber, c.customerName, (od.quantityOrdered × od.priceEach) AS TotalAmount

FROM orders o INNER JOIN customers c

ON o.customerName = c.customerNumber

INNER JOIN orderdetails od

ON od.orderNumber = o.orderNumber;