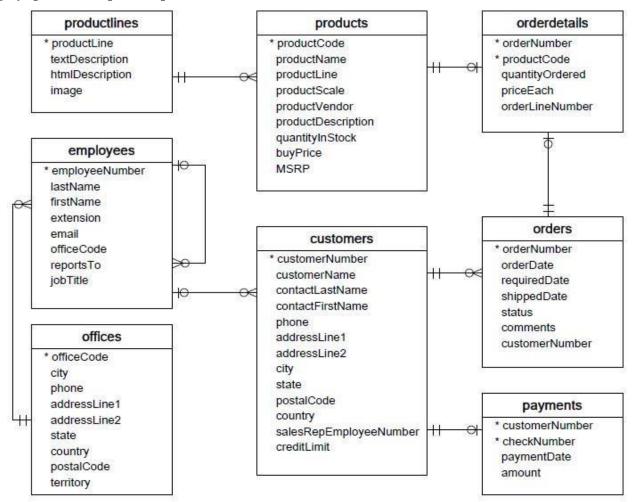


WORKSHEET 3 SQL

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. cursor.execute("CREATE TABLE customers(customerNumber INT primary key,customerName VARCHAR(45) NOT NULL,contactLastName VARCHAR(20),contactFirstName VARCHAR(20),phone int(10), addressLine1 VARCHAR(50), addressLine2 VARCHAR(50), city CHAR(50), state VARCHAR(25), postalcode int(10), country

VARCHAR(50), sales Rep Employee Number INT, credit limit int(20))'');



2. Write SQL query to create table Orders.

cursor.execute("CREATE TABLE orders(orderNumber INT NOT NULL, orderDate DATE, requiredDate DATE, shippedDate DATE, status VARCHAR(100), comments VARCHAR(50), customerNumber INT, PRIMARY KEY (orderNumber),FOREIGN KEY (customerNumber) REFERENCES customers(customerNumber))");

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

Result = cursor.execute("Select * from orders"); Result.fetchall()

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

Result = cursor.execute("Select comments from orders");

For row in Result:

Print(row)

- 5. Write a SQL query to show orderDate and Total number of orders placed on that date, from Orders table. Result = cursor.execute("Select orderDate, SUM from orders where orderDate=2022-12-10"); Result.fetchall()
- **6.** Write a SQL query to show employeNumber, lastName, firstName of all the employees from **employees** table.

Result = cursor.execute("Select employeNumber, lastName, firstName from Employees");
Result.fetchall()

- 7. Write a SQL query to show all orderNumber, customerName of the person who placed the respective order. Result = cursor.execute("Select orders.orderNumber, customers.customerName from orders, customers WHERE customers.customerNumber = orders.customerNumber"); Result.fetchall()
- **8.** Write a SQL query to show name of all the customers in one column and salary employee name in another column.

Result = cursor.execute("Select customers.customerName, employees.firstName, employees.lastName from customers, employees WHERE customers.salesRepEmployeeNumber=employees.employeeNumber");
Result.fetchall()

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.

Result = cursor.execute("Select paymentDate, sum(amount) from payments GROUP BY paymentDate");

Result.fetchall()

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

Result = cursor.execute("Select productName, MSRP, productDescription from products");
Result.fetchall()



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

Result = cursor.execute("SELECT MAX(orderdetails.quantityOrdered) , products.productName, products.productDescription from products, orderdetails WHERE orderdetails.productCode = products.productCode");

Result.fetchall()

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

Result = cursor.execute("SELECT customers.city FROM customers WHERE MAX(count(DISTINCT orders.orderNumber");

Result.fetchall()

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

Result = cursor.execute("SELECT state FROM customers WHERE max(GROUP BY state")); Result.fetchall()

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

Result = cursor.execute("SELECT employeeNumber, CONCAT(firstName,lastName) employeeName FROM employees");

Result.fetchall()

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

Result = cursor.execute("SELECT customers.customerName, orderdetails.orderNumber, orderdetails.quantityOrdered * orderdetails.priceEach FROM orderdetails JOIN orders ON orderdetails.orderNumber = orders.orderNumber JOIN customers ON orders.orderNumber = customers.customerNumber");

Result.fetchall()

