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SQL Assignment 3

Q.1. Write SQL query to create table Customers.

```
cursor.execute("CREATE TABLE Customers(customerNumber INT(15) NOT NULL,
        customerName VARCHAR(30) NOT NULL,
        contactLastName VARCHAR(20) NOT NULL,
        ContactFirstName VARCHAR(20) NOT NULL,
        phone INT(10) NOT NULL,
        addressLine1 VARCHAR(60) NOT NULL,
        addressLine2 VARCHAR(60) NOT NULL,
        city VARCHAR NOT NULL,
        state VARCHAR NOT NULL,
        postalCode INT(6)NOT NULL,
        country VARCHAR NOT NULL,
        salesRepEmployeeNumber INT(10) NOT NULL,
        creditLimit int(5) NOT NULL)")
```

Q. 2. Write SQL query to create table Orders.

```
cursor.execute("CREATE TABLE Orders(orderNumber INT NOT NULL,
        orderDate DATE NOT NULL,
        requiredDate DATE NOT NULL,
        shippedDate DATE NOT NULL,
        status TEXT(20) NOT NULL,
        comments TEXT(60) NOT NULL,
        customerNumber INT NOT NULL)")
```

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

```
columns = cursor.execute("SELECT*FROM Orders")
for row in columns:
   print(row)
```

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

```
comments = cursor.execute("SELECT comments FROM Orders")
for row in comments:
   print(row)
```

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

```
sql = "SELECT * FROM Orders WHERE orderDate = "
result = cursor.execute(sql)
for row in result:
   print(row)
```

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

```
cursor.execute("CREATE TABLE employees(employeeNumber INT NOT NULL,
        lastName VARCHAR(15) NOT NULL,
        firstName VARCHAR(15) NOT NULL,
        extension INT NOT NULL,
        email VARCHAR(30) NOT NULL,
        officeCode VARCHAR(10) NOT NULL,
        reportsTo VARCHAR(20) NOT NULL,
        jobTitle VARCHAR(25) NOT NULL)")
results = cursor.execute("SELECT employeeNumber,lastName,firstName FROM employees")
```

```
for row in results:
   print (row)
```

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

```
names = "SELECT * FROM Customers s1 INNER JOIN Orders s2
USING(customerNumber) GROUP BY s1. customerName ORDER BY
s1.customerName DESC"

result = cursor.execute(names)

for row in result:
   print(row)
```

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

```
results = cursor.execute("SELECT customerName,
                    salesRepEmployeeNumber FROM Customers")

for row in results:
   print (row)
```

Q. 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.

```
cursor.execute("CREATE TABLE payments(customerNumber
INT(15) NOT NULL,
        checkNumber INT(6) NOT NULL,
        paymentDate DATE NOT NULL,
        amount INT(5) NOT NULL)")

results = cursor.execute("SELECT paymentDate, amount
FROM payments")

for row in results:
   print (row)
```

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

```
cursor.execute("CREATE TABLE products(productCode INT(10) NOT NULL,
        productName VARCHAR(30) NOT NULL,
        productLine VARCHAR(20) NOT NULL,
        productScale VARCHAR NOT NULL,
        productVendor VARCHAR(30) NOT NULL,
        productDescription VARCHAR(50) NOT NULL,
        quantityInStock INT(5) NOT NULL,
        buyPrice INT(5) NOT NULL,
        MSRP INT(5) NOT NULL)")
results = cursor.execute("SELECT productCode,productName,MSRP,productDescription FROM products")
for row in results:
   print (row)
```

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

```
cursor.execute("CREATE TABLE order details(orderNumber INT NOT NULL,
        productCode INT(10) NOT NULL,
        quantityOrderd INT NOT NULL,
        priceEach INT NOT NULL,
        orderLineNumber INT NOT NULL)")
result = "SELECT TOP 3 productCode, COUNT(*) as Total_Order, SUM(quantityOrdered) as Total_Quantity FROM orderDETAILS GROUP BY productCode ORDER BY COUNT(*) DESC"
top_ordered = cursor.execute(result)
```

```
for row in result:
    print(row)
```