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INTERNSHIP BATCH : 33

TOPIC: SQL

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WORKSHEET NO : 3

Q1. Write SQL query to create table **Customers.**
ANS:

```
= import sqlite3

= db=sqlite3.connect("Customer_data.db")

= cursor=db.cursor()

= cursor.execute("CREATE TABLE Customers(customerNumber INT PRIMARY KEY,customerName TEXT,contactLastName TEXT,contactFirstName TEXT,phone INT,addressLine1 TEXT,addressLine2 TEXT, city TEXT, state TEXT, postalCode INT, country TEXT , salesRepEmployeeNumber INT,creditLimit INT)")
```

Q2. Write SQL query to create table **Orders.**
ANS:

```
= cursor.execute("CREATE TABLE Orders(orderNumber INT PRIMARY KEY, orderDate INT, requiredDate INT, shippedDate INT, status TEXT, comments TEXT, customerNumber INT)")
```

Q3. Write SQL query to show all the columns data from the **Orders** Table.
ANS:

```
= results=cursor.execute("SELECT * FROM Orders")

= for values in results:
    print(values)
```

Q4. Write SQL query to show all the comments from the **Orders** Table.
ANS:

```
= results=cursor.execute("SELECT comments FROM Orders")

= results.fetchall()
```

Q5. Write a SQL query to show orderDate and Total number of orders placed on that date, from **Orders** table.
ANS:

```
= count=cursor.execute("SELECT orderdate as dates, count(orderNumber) as no_of_order from Orders group by dates")

= for values in count:
    print(values)
```

Q6. Write a SQL query to show employeNumber, lastName, firstName of all the employees from **employees** table.
ANS:

```
= emp=cursor.execute("SELECT employeeNumber,lastName,firstName FROM employees")

= for values in emp:
    print(values)
```

Q7. Write a SQL query to show all orderNumber, customerName of the person who placed the respective order.
ANS:

```
= results=cursor.execute("SELECT Orders.orderNumber , Customers.customerName FROM Orders, Customers
WHERE Orders.customerNumber = Customers.customerNumber ")

= results.fetchall()
```

Q8. Write a SQL query to show name of all the customers in one column and salerepemployee name in another column.
ANS:

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

= results.fetchall()
```

Q9. 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.
ANS:

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

= results.fetchall()
```

Q10. Write a SQL query to show all the products productName, MSRP, productDescription from the **products** table.
ANS:

```
= results=cursor.execute("SELECT ProductName, MSRP, ProductDescription FROM Products ")

= results.fetchall()
```

Q11. Write a SQL query to print the productName, productDescription of the most ordered product.
ANS:

= results=cursor.execute("SELECT productName, productDescription, max(quantityOrdered) FROM products, orderdetails WHERE products.productcode=orderdetails.productcode")

= results.fetchall()

Q12. Write a SQL query to print the city name where maximum number of orders were placed.
ANS:

= results=cursor.execute("SELECT city,ProductName,max(QuantityOrdered) FROM customers,Products,Orderdetails WHERE Products.productcode = Orderdetails.productcode")

= results.fetchall()

Q13. Write a SQL query to get the name of the state having maximum number of customers.
ANS:

= results=cursor.execute("SELECT state,count(customerNumber) FROM customers group by state order by count(customerNumber) desc limit 1")

= results.fetchall()

Q14. 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.
ANS:

= results=cursor.execute("SELECT EmployeeNumber, CONCAT(FirstName," ",Lastname) as Full_name from Employees")

= results.fetchall()

Q15. Write a SQL query to print the orderNumber, customer Name and total amount paid by the customer for that order (quantityOrdered × priceEach).
ANS:

= results=cursor.execute("SELECT Orders.OrderNumber, Customers.CustomerName, orderdetails.QuantityOrdered*orderdetails.PriceEach as amount_paid FROM ((Orders INNER JOIN Customers ON Orders.CustomerNumber=customers.CustomerNumber)INNER JOIN orderdetails ON Orders.OrderNumber=orderdetails.OrderNumber)")

= results.fetchall()