

## SQL WORKSHEET-3

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

**Answer :** import sqlite3

```
data = sqlite3.connect('company.db')
```

```
cursor = data.cursor()
```

```
cursor.execute("CREATE TABLE customers (customerNumber INT PRIMARY  
KEY,customerName TEXT, contactLastName TEXT , contactFirstName TEXT ,  
phone INT PRIMARY KEY , addressLine1 VARCHAR(40) , addressLine2  
VARCHAR(40),city TEXT, state TEXT,postalCode INT,country  
TEXT,salesRepEmployeeNumber INT,creditLimit INT)")
```

Then we can insert our values

```
data.commit()
```

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

**Answer:** import sqlite3

```
data = sqlite3.connect('company1.db')
```

```
cursor = data.cursor()
```

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

Then we can insert our values

```
data.commit()
```

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

**Answer :** `output = cursor.execute("SELECT * FROM orders")`

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

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

**Answer :** `cmnt = cursor.execute("SELECT comments FROM orders")`

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

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

**Answer :** `od = cursor.exceute("SELECT date(orderDate) , COUNT(*) FROM orders GROUPBY date(orderDate)")`

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

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

**Answer :** `import sqlite3`

`data = sqlite3.connect('company3.db')`

`cursor = data.cursor()`

```
cursor.execute("CREATE TABLE employees(employeeNumber INT PRIMARY KEY
,lastName TEXT ,firstName TEXT , extension TEXT , email VARCHAR,officeCode INT
, reportsTo TEXT ,jobTitle TEXT)")
```

```
data.commit()
```

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

```
    for row in sh:
```

```
        print(row)
```

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

**Answer :** ord\_no = cursor.execute("SELECT orders.orderNumber  
,customers.customerName FROM orders,customers WHERE  
orders.customerNumber = customers.customerNumber")

```
    for row in ord_no:
```

```
        print(row)
```

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

**Answer :** cust = cursor.execute("SELECT customers.customerName FROM  
customers WHERE customers.salesRepEmployeeNumber =  
employees.employeeNumber")

```
    for row in cust:
```

```
        Print(row)
```

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

**Answer :** import sqlite3

```
data = sqlite3.connect('company4.db')
```

```
cursor = data.cursor()
```

```
cursor.execute("CREATE TABLE payments(customerNumber INT PRIMARY KEY ,  
checkNumber INT PRIMARY KEY,paymentDate DATE , amount INT)")
```

```
data.commit()
```

```
dt = cursor.execute("SELECT date(paymentDate) , SUM(amount) FROM  
payments GROUP BY date(paymentDate)")
```

```
for row in dt:
```

```
    print(row)
```

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

**Answer ::** import sqlite3

```
data = sqlite3.connect('company.db')
```

```
cursor = data.cursor()
```

```
cursor.execute("CREATE TABLE products (productCode INT PRIMARY KEY ,  
productName TEXT , productLine TEXT, productScale INT , productVendor INT ,  
productDescription TEXT , quantityInStock INT,buyPrice INT,MSRP INT)")
```

```
data.commit()
```

```
dta = cursor.execute("SELECT productName, productDescription, MSRP FROM  
products")
```

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

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

**Answer :** result = cursor.execute("SELECT products.productName ,  
products.productDescription, SUM(orderDetails.quantityOrdered) AS  
quantityOrdered FROM products INNER JOIN orderDetails ON  
orderDetails.productCode = products.productCode GROUP BY  
orderDetails.qunatityOrdered")

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

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

**Answer :** import sqlite3

```
data = sqlite3.connect('company.db')
```

```
cursor = data.cursor()
```

```
cursor.execute("CREATE TABLE orderdetails (orderNumber INT PRIMARY KEY  
, productCode INT PRIMARY KEY , quantityOrdered INT, priceEach INT,  
orderLineNumber INT)")
```

```
data.commit()
```

```
city = cursor.execute("SELECT  
customers.city.SUM(orderDeatails.quantityOrdered) AS quantityOrdered  
FROM customers INNER JOIN orderDetails, orders ON  
customers.customerNumber=Orders.customerNumber and  
orders.orderNumber = orderDetails.orderNumber GROUP BY  
orderDetails.quantityordered")
```

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

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

**Answer :** state = cursor.execute("SELECT state , COUNT(\*) AS Max\_customer  
FROM customers GROUP BY state ORDER BY COUNT(\*) DESC")

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

**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.**

**Answer :** emp\_no= cursor.execute("SELECT employeeNumber , firstName  
lastName AS FullName FROM employees")

```
for row in emp_no:
```

```
print(row)
```

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

**Answer :** out = cursor.execute("SELECT orderDetails.orderNumber ,  
customers.customerName  
,orderDetails.quantityOrdered\*orderDetails.priceEach AS amount FROM  
orderDetails INNER JOIN customers,orders ON customers.customerNumber =  
orders.customerNumber and orderDetails.orderNumber =  
orders.orderNumber")

```
for row in out:
```

```
    print(row)
```