

# SQL WORKSHEET 3

```
import sqlite3
```

```
ofc=sqlite3.connect("Office_database.ofc")
```

```
cursor=ofc.cursor()
```

1. `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, salesRepRmployeeNumber, creditLimit)")`
2. `cursor.execute("CREATE TABLE orders(orderNumber INT PRIMARY KEY, orderDate TEXT, requiredDate TEXT, shippedDate TEXT, status TEXT, comments TEXT, customerNumber INT, FOREIGN KEY(customerNumber) references Customers(customerNumber))")`
3. `results=cursor.execute("Select*FROM orders")`  
`for row in results:`  
`print(row)`
4. `results=cursor.execute("Select comments FROM orders")`  
`for row in results:`  
`print(row)`
5. `results=cursor.execute("Select orderDate, orderNumber FROM orders WHERE orderDate = 'Replace with ORDER DATE'")`  
`for row in results:`  
`print(row)`
6. `cursor.execute("CREATE TABLE employees(employeeNumber INT PRIMARY KEY, lastName TEXT, firstName TEXT, extension INT, email TEXXT, OfficeCode TEXT, reportsTo TEXT, jobTtile TEXT)")`  
  
`results=cursor.execute("Select employeeNumber,lastName,firstName FROM employees")`  
`for row in results:`  
`print(row)`
7. `results=cursor.execute("SELECT ordernumber FROM orders WHERE customerNumber=(SELECT customerNumber from Customers where customerName='Replace with CUSTOMER NAME')")`  
`results.fetchall()`
8. `sql="SELECT customerName, firstName, lastName FROM Customers INNER JOIN employees "`  
`result=cursor.execute(sql)`  
`for row in result:`  
`print(row)`
9. `cursor.execute("CREATE TABLE payments(customerNumber INT, checkNumber INT PRIMARY KEY, paymentDate TEXT, amount INT, FOREIGN KEY(customerNumber) references Customers(customerNumber))")`  
  
`results=cursor.execute("Select paymentDate, amount FROM payments WHERE paymentDate='Replace with desired DATE' ")`  
`for row in results:`  
`print(row)`
10. `cursor.execute("CREATE TABLE productlines(productLine INT Primary KEY, textDescription TEXT, htmlDescription TEXT, image image)")`

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

```
results=cursor.execute("Select productName, MSRP, productDescription FROM products")  
for row in results:  
    print(row)
```

11. 

```
cursor.execute("CREATE TABLE orderdetails (orderNumber INT, productCode INT, quantityOrdered INT, priceEach INT, orderLineNumber INT, FOREIGN KEY(orderNumber) references orders(orderNumber), FOREIGN KEY(productCode) references products(productCode))")
```

```
results=cursor.execute("SELECT productName, productDescription FROM products WHERE productCode=(SELECT productCode FROM orderdetails where quantityOrdered = (SELECT MAX (quantityOrdered) FROM orderdetails)) ")  
results. fetchone()  
print(result)
```

12. 

```
r=cursor.execute("SELECT city from Customers WHERE customerNumber=(SELECT customerNumber from orders WHERE orderNumber=(SELECT orderNumber FROM orderdetails WHERE quantityOrdered = (SELECT MAX (quantityOrdered) FROM orderdetails)))")  
r. fetchone()  
print(r)
```

13. 

```
q=cursor.execute("SELECT MAX (state) FROM Customers")  
print('Max = ',q.fetchone())
```

14. 

```
sql=cursor.execute("UPDATE employees SET firstName=(firstname+lastName)")  
sql=cursor.execute("SELECT firstName from employees")  
for row in sql:  
    print(row)
```

15. 

```
results=cursor.execute("Select customerName from customers where customerNumber=(SELECT orderNumber FROM orders WHERE  
for row in results:  
    print(row)
```