Solved SQL Worksheet Set 3

1. Write SQL query to create table Customers.
    - import sqlite3
    - db=sqlite3.connect("my_database.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)")

2. Write SQL query to create table Orders.
    - cursor.execute("Create table Orders (orderNumber int primary key, orderDate date, requiredDate date, shippedDate date, status text, comments text, customerNumber int, foreign key (customerNumber) references Customers(customerNumber))")

3. Write SQL query to show all the columns data from the Orders Table.
    - results= cursor.execute("Select * from Orders")
    - results.fetchall

4. Write SQL query to show all the comments from the Orders Table
    - results= cursor.execute("Select comments from Orders")
    - results.fetchall

5. Write a SQL query to show orderDate and Total number of orders placed on that date, from Orders table.
    - results= cursor.execute("Select orderNumber, orderDate from Orders")
    - results.fetchall

6. Write a SQL query to show employeNumber, lastName, firstName of all the employees from employees table.
    - results= cursor.execute("Select employeeNumber, lastName, firstName from Employees")
    - results.fetchall

7. Write a SQL query to show all orderNumber, customerName of the person who placed the respective order.
    - results=cursor.execute(“Select orders.orderNumber, customers.customerName from orders Inner Join customers on orders.customerNumber=customers.customerNumber”)
    - results.fetchall

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")
    - results.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
    - results=cursor.execute("Select paymentDate, amount from payments")
    - results.fetchall

10. Write a SQL query to show all the products productName, MSRP, productDescription from the products table.
    - results=cursor.execute("Select productName, MSRP, productDescription from products")
    - results.fetchall

11. Write a SQL query to print the productName, productDescription of the most ordered product.
    - results=cursor.execute("Select productName, productDescription from products where productcode=(Select max(count(productcode)) from products)
    - results.fetchall

12. Write a SQL query to print the city name where maximum number of orders were placed.
    - results=cursor.execute("Select customers.city from customers Inner join orders on customers.customernumber=orders.customernumber where order.orderNumber=(Select max(ordernumber) from orderdetails)")
    - results.fetchall

13. Write a SQL query to get the name of the state having maximum number of customers.
    - results=cursor.execute("Select state from customers where customerNumber=(Select max(count(customernumber)) from customers")
    - results.fetchall

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.
    - results= cursor.execute("Select employeeNumber, Concat(firstName,' ',lastName) as EmployeeName from employees")
    - results.fetchall

15. Write a SQL query to print the orderNumber, customer Name and total amount paid by the customer for that order (quantityOrdered × priceEach).
    - results=cursor.execute("Select customers.customerName, orders.ordernumber, (orderdetails.quantityordered * orderdetails.priceEach) as AmountPaid from orders Inner Join customers on customers.customerNumber=orders.customerNumber) where order.orderNumber=(Select orderNumber from orderdetails)")
    - results.fetchall