#56daysofSQL

Day 42
Creating a Table and Inserting values in SQLite

Aditya Shenoy

Creating a Table

- Following Python program will be used to create a table in the **test.db** database.

```
import sqlite3

conn = sqlite3.connect('test.db')
cursor = conn.cursor()

print("Opened database successfully")

conn.execute("DROP TABLE COMPANY")

conn.execute('''CREATE TABLE COMPANY
        (ID INT PRIMARY KEY     NOT NULL,
        NAME           TEXT    NOT NULL,
        AGE            INT     NOT NULL,
        ADDRESS        CHAR(50),
        SALARY         REAL);''')
print("Table created successfully")
```

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Inserting Values into the Table:

```
conn.execute("INSERT INTO COMPANY (ID,NAME,AGE,ADDRESS,SALARY) \
      VALUES (1, 'Paul', 32, 'California', 20000.00 )")

conn.execute("INSERT INTO COMPANY (ID,NAME,AGE,ADDRESS,SALARY) \
      VALUES (2, 'Allen', 25, 'Texas', 15000.00 )")

conn.execute("INSERT INTO COMPANY (ID,NAME,AGE,ADDRESS,SALARY) \
      VALUES (3, 'Teddy', 23, 'Norway', 20000.00 )")

conn.execute("INSERT INTO COMPANY (ID,NAME,AGE,ADDRESS,SALARY) \
      VALUES (4, 'Mark', 25, 'Rich-Mond ', 65000.00 )")


conn.commit()
print("Records created successfully")
```

Verifying

- Selecting all the rows from the table using a for loop.

```
for row in cursor.execute("SELECT * FROM COMPANY"):
    print(row)


conn.close()
```

Output:

```
Opened database successfully
Table created successfully
Records created successfully
(1, 'Paul', 32, 'California', 20000.0)
(2, 'Allen', 25, 'Texas', 15000.0)
(3, 'Teddy', 23, 'Norway', 20000.0)
(4, 'Mark', 25, 'Rich-Mond ', 65000.0)
```