Database Connectivity using SQLite3

```
import sqlite3

conn = sqlite3.connect('test.db')
print("db opened success")
conn.execute("'CREATE TABLE
COMPANY1

(ID INT PRIMARY KEY NOT
NULL,        NAME TEXT NOT
NULL,        AGE INT NOT
NULL,        ADDRESS
CHAR(50),        SALARY
REAL);'")

print("Table created successfully")
conn.close()
```

Output:

```
C:\Users\abc\venv\Scripts\python.e
xe C:/Users/abc/Desktop/db.py db
opened success

Table created successfully ----------
```

Database Insert----------

```
 import sqlite3

conn = sqlite3.connect('test.db')
print ("Opened database
successfully")
conn.execute("INSERT INTO
COMPANY1
(ID,NAME,AGE,ADDRESS,SAL
ARY) \ VALUES (1, 'Paul', 32,
'California', 20000.00 );")
conn.execute("INSERT INTO
COMPANY1
(ID,NAME,AGE,ADDRESS,SAL
ARY) \ VALUES (2, 'Allen', 25,
'Texas', 15000.00 );")
conn.execute("INSERT INTO
```

```
COMPANY1
(ID,NAME,AGE,ADDRESS,SAL
ARY) \ VALUES (3, 'Teddy', 23,
'Norway', 20000.00 );")
conn.execute("INSERT INTO
COMPANY1
(ID,NAME,AGE,ADDRESS,SAL
ARY) \VALUES (4, 'Mark', 25,
'Rich-Mond ', 65000.00 );")

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

conn.close()
```

Output:

```
C:\Users\abc\venv\Scripts\python.e
xe C:/Users/abc/Desktop/db.py
Opened database successfully
Records created successfully --------

Database Select-----------------------

import sqlite3

conn = sqlite3.connect('test.db')
print ("Opened database
successfully")

cursor = conn.execute("SELECT id,
name, address, salary from
COMPANY1")

for row in cursor:

print ("ID = ",row[0])

print ("NAME = ",row[1])

print ("ADDRESS = ",row[2])
print ("SALARY = ",row[3], "\n")
print ("Operation done
successfully")
```

Shreeya Kokate
Roll No. 41
SE INFT-1

```
conn.close()
```

Output:

```
C:\Users\abc\venv\Scripts\python.e
xe C:/Users/abc/Desktop/db.py
Opened database successfully
ID = 1
NAME = Paul
ADDRESS = California
SALARY = 20000.0
ID = 2
NAME = Allen
ADDRESS = Texas
SALARY = 15000.0
ID = 3
NAME = Teddy
ADDRESS = Norway
SALARY = 20000.0
ID = 4
NAME = Mark
ADDRESS = Rich-Mond
SALARY = 65000.0
Operation done successfully --------
```

Database Update----------

```
import sqlite3
conn = sqlite3.connect('test.db')
print ("Opened database
successfully")
conn.execute("UPDATE
COMPANY1 set SALARY =
25000.00 where ID = 1")
```

```
conn.commit()
print ("Total number of rows
updated:", conn.total_changes)
cursor = conn.execute("SELECT id,
name, address, salary from
COMPANY1")
for row in cursor:
print ("ID = ",row[0])
print ("NAME = ",row[1])
print ("ADDRESS = ",row[2])
print ("SALARY = ",row[3], "\n")
print ("Operation done
successfully")
conn.close()
```

Output:

```
C:\Users\abc\venv\Scripts\python.e
xe C:/Users/abc/Desktop/db.py
Opened database successfully
Total number of rows updated: 1
ID = 1
NAME = Paul
ADDRESS = California
SALARY = 25000.0
ID = 2
NAME = Allen
ADDRESS = Texas
SALARY = 15000.0
ID = 3
NAME = Teddy
```

ADDRESS = Norway

SALARY = 20000.0

ID = 4 N

AME = Mark

ADDRESS = Rich-Mond
SALARY = 65000.0

Operation done successfully --------

Database Delete------------------------

```
 import sqlite3

conn = sqlite3.connect('test.db')
print ("Opened database
successfully")
conn.execute("DELETE from
COMPANY1 where ID = 2;")
conn.commit()

print ("Total number of rows
deleted:", conn.total_changes)
cursor = conn.execute("SELECT id,
name, address, salary from
COMPANY1")

for row in cursor:

print ("ID = ",row[0])

print ("NAME = ",row[1])

print ("ADDRESS = ",row[2])
print ("SALARY = ",row[3], "\n")
print ("Operation done
successfully")

conn.close()
```

Output:
C:\Users\abc\venv\Scripts\python.e
xe C:/Users/abc/Desktop/db.py

Opened database successfully Total number of rows deleted: 1

ID = 1

NAME = Paul

ADDRESS = California

SALARY = 25000.0

ID = 3

NAME = Teddy

ADDRESS = Norway

SALARY = 20000.0

ID = 4

NAME = Mark

ADDRESS = Rich-Mond
SALARY = 65000.0

Operation done successfully

Shreeya Kokate
Roll No. 41
SE INFT-1