In [17]:
```
import sqlite3

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

print ("Opened database successfully")
```

```
Opened database successfully
```

create table

In [18]:
```
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")

conn.close()
```

```
---------------------------------------------------------------------------
OperationalError                          Traceback (most recent call last)
<ipython-input-18-bd6b07511ce0> in <module>
      4          AGE            INT     NOT NULL,
      5          ADDRESS        CHAR(50),
----> 6          SALARY         REAL);''')
      7 print ("Table created successfully")
      8

OperationalError: table COMPANY already exists
```

INSERT Operation

In [19]:
```
conn = sqlite3.connect('test.db')
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")
conn.close()
```

```
---------------------------------------------------------------------------
IntegrityError                            Traceback (most recent call last)
<ipython-input-19-b5cf555d74d9> in <module>
      1 conn = sqlite3.connect('test.db')
      2 conn.execute("INSERT INTO COMPANY (ID,NAME,AGE,ADDRESS,SALARY) \
----> 3       VALUES (1, 'Paul', 32, 'California', 20000.00 )")
      4
      5 conn.execute("INSERT INTO COMPANY (ID,NAME,AGE,ADDRESS,SALARY) \

IntegrityError: UNIQUE constraint failed: COMPANY.ID
```

SELECT Operation

In [27]:
```
conn = sqlite3.connect('test.db')
print("Opened database successfully")

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

cursor = conn.execute("SELECT * from COMPANY WHERE NAME=='Teddy'")
for row in cursor:
   print ("ID = ", row[0])
   print ("NAME = ", row[1])
   print ("AGE = ", row[2])
   print ("ADDRESS = ", row[3])
   print ("SALARY = ", row[4], "\n")

print("Operation done successfully")

conn.close()
```

```
Opened database successfully
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
ID =  3
NAME =  Teddy
AGE =  23
ADDRESS =  Norway
SALARY =  20000.0

Operation done successfully
```

UPDATE Operation

In [14]:
```
conn = sqlite3.connect('test.db')
print("Opened database successfully")

conn.execute("UPDATE COMPANY 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 COMPANY")
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()
```

```
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
NAME =  Mark
ADDRESS =  Rich-Mond
SALARY =  65000.0

Operation done successfully
```

DELETE Operation

In [16]:
```
conn = sqlite3.connect('test.db')
print("Opened database successfully")

conn.execute("DELETE from COMPANY where ID = 2;")
conn.commit()
print ("Total number of rows deleted :", conn.total_changes)

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

```
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
```

In [ ]:
```

```