SQLite

In [11]:

```
import sqlite3
connection=sqlite3.connect("company.db")
cursor =connection.cursor()
sql_command="""
CREATE TABLE employee(
staff_number INTEGER PRIMARY KEY,
fname VARCHAR(20),
lname VARCHAR(30),
gender CHAR(1),
joining DATE,
birth_date DATE);"""
#command between """ "s structured query command
# it is stored as string
#cursor.execute("""DROP TABLE employee;""") #to delete table
cursor.execute(sql_command)
sql_command="""INSERT INTO employee (staff_number,fname,lname,gender,birth_date)
VALUES(NULL, "Frank", "Schiller", "m", "1955-08-17"); """
cursor.execute(sql_command)
sql command="""INSERT INTO employee (staff_number,fname,lname,gender,birth_date)
VALUES(NULL, "William", "Shakespeare", "m", "1961-10-25"); """
cursor.execute(sql_command)
connection.commit() #saves the data
connection.close()
```

In [17]:

```
import sqlite3
connection=sqlite3.connect("company.db")
cursor=connection.cursor()
staff_data=[("William","Shakespeare","m","1961-10-25"),
       ("William", "Shakespeare", "m", "1961-10-25"),
       ("William", "Shakespeare", "m", "1961-10-25"),]
for p in staff data:
    format_str="""INSERT INTO employee (staff_number,fname,lname,gender,birth_date)
    VALUES(NULL, "{first}", "{last}", "{gender}", "{birthdate}"); """
    sql_command=format_str.format(first=p[0],last=p[1],gender=p[2],birthdate=p[3])
    cursor.execute(sql_command)
connection.commit() #saves the data
connection.close()
```

to see

```
In [18]:
import salite3
connection=sqlite3.connect("company.db")
cursor=connection.cursor()
cursor.execute("SELECT * FROM employee")
print("fetchall:")
result=cursor.fetchall()
for r in result:
     print(r)
cursor.execute("SELECT * FROM employee")
print("\nfectch one:")
res=cursor.fetchone()
print(res)
fetchall:
(1, 'Frank', 'Schiller', 'm', None, '1955-08-17')
(2, 'William', 'Shakespeare', 'm', None, '1961-10-25')
(3, 'William', 'Shakespeare', 'm', None, '1961-10-25')
(4, 'William', 'Shakespeare', 'm', None, '1961-10-25')
(5, 'William', 'Shakespeare', 'm', None, '1961-10-25')
fectch one:
(1, 'Frank', 'Schiller', 'm', None, '1955-08-17')
In [ ]:
```