**Python II**

**Student ID : C0930321**

**Student Name : Shreejana Shrestha**

**Week 11 Lab work (SQLite connectivity using python)**

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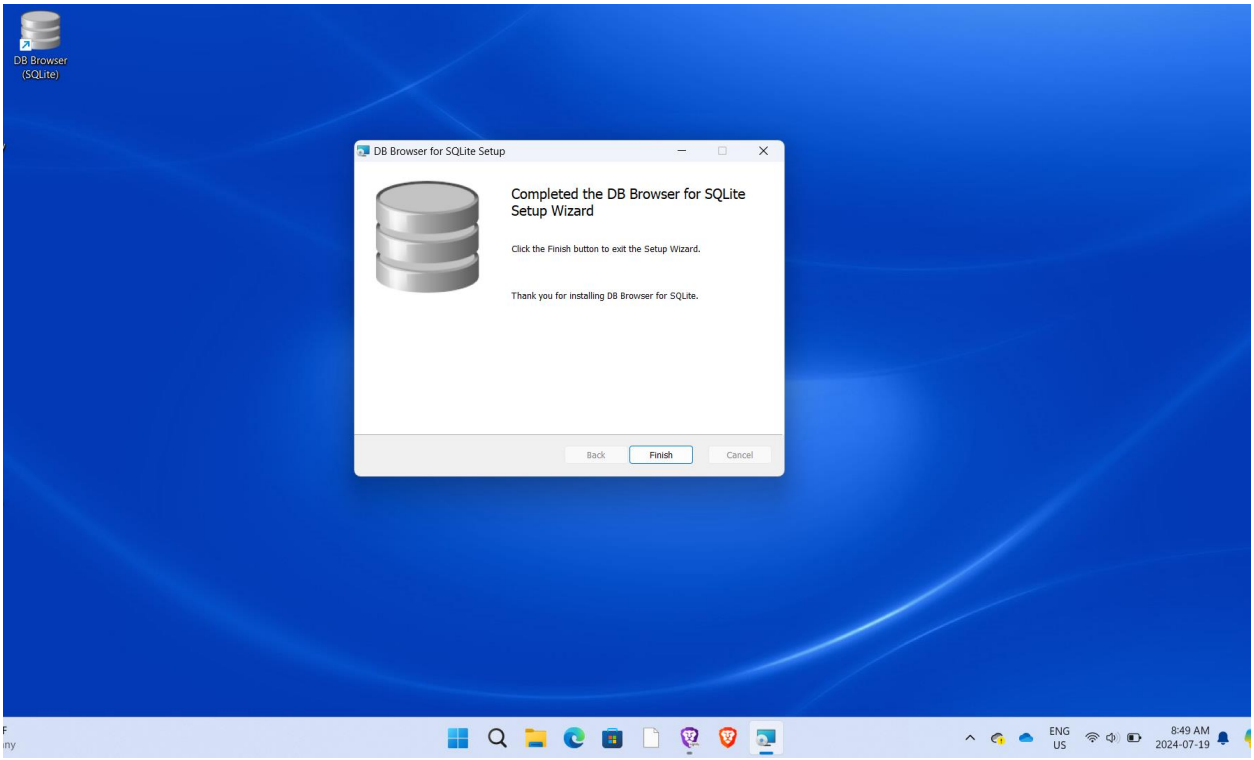
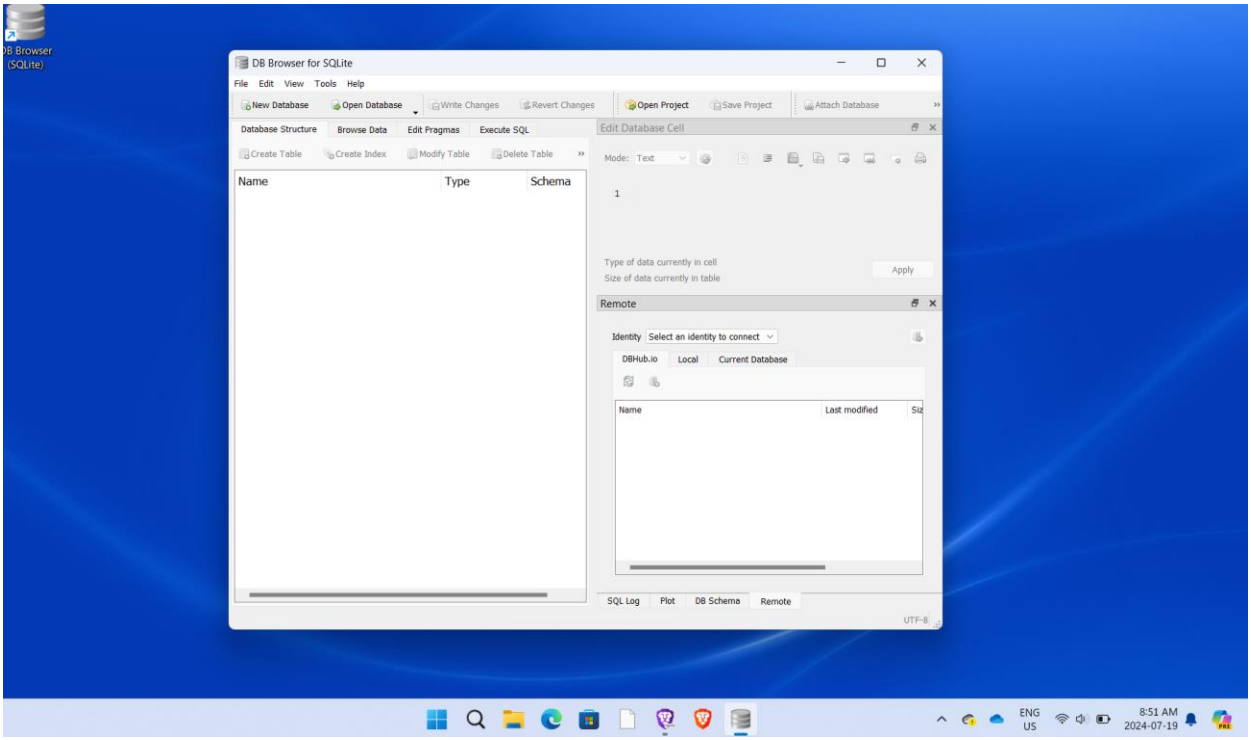
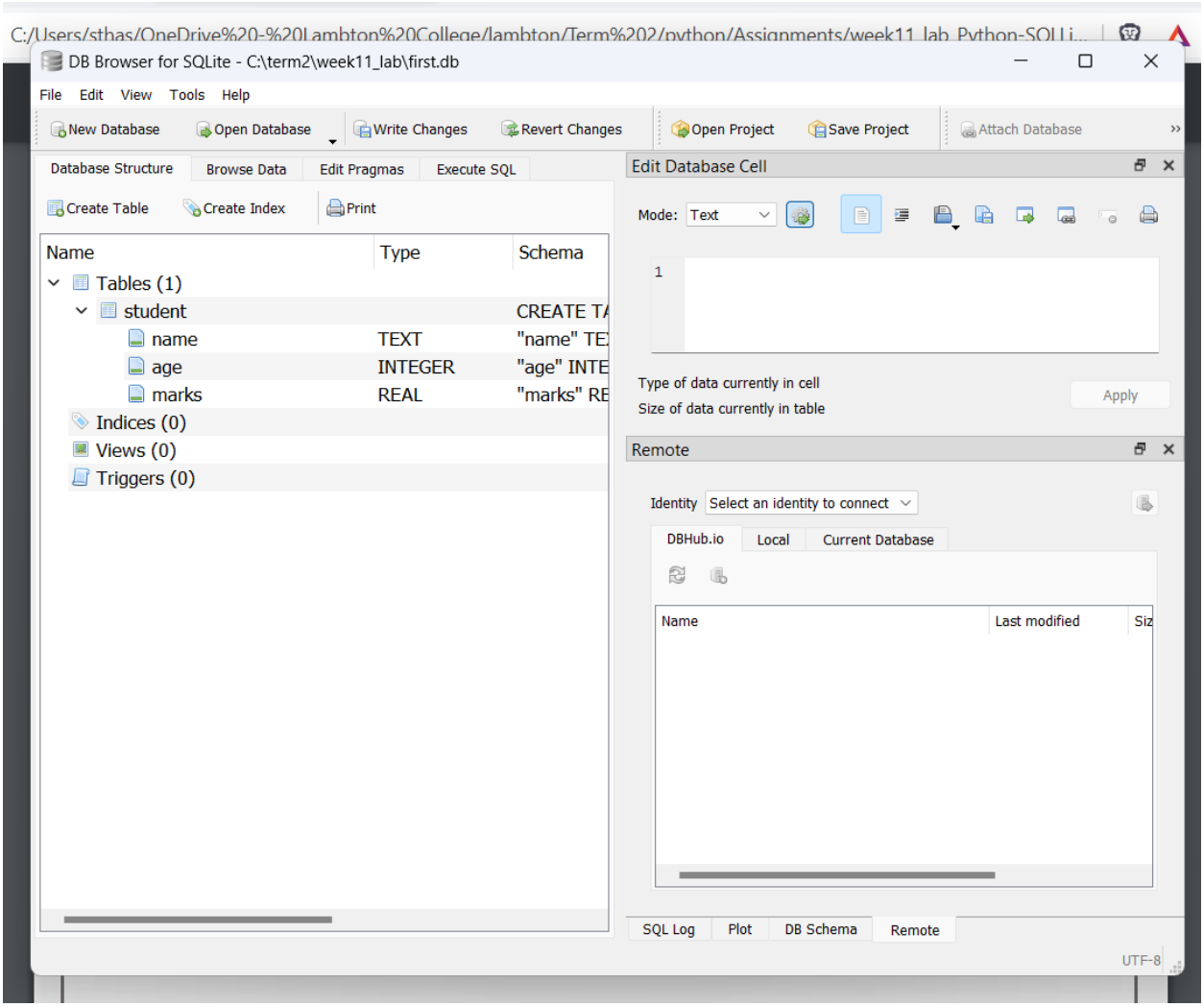
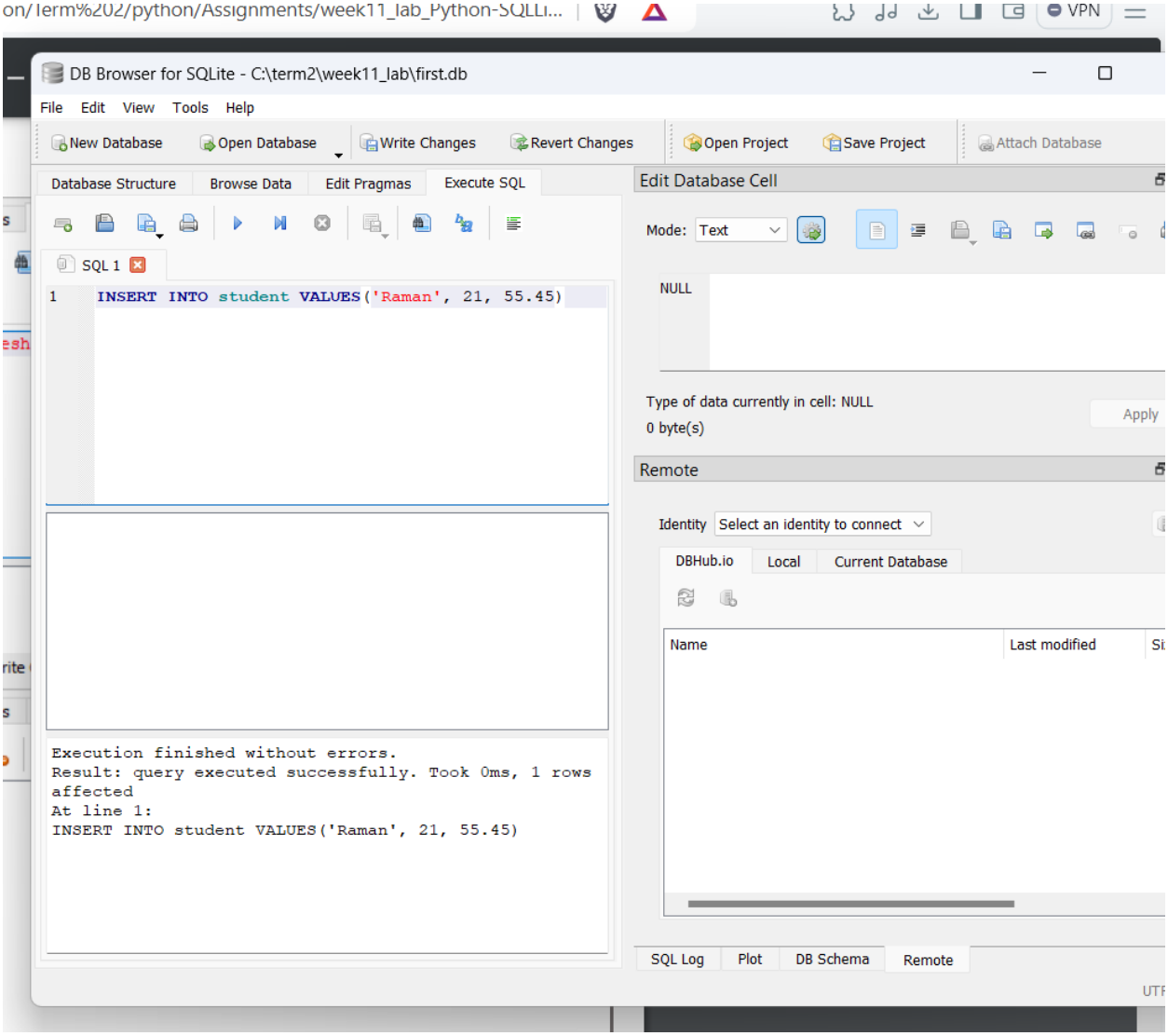
# # Installation of db browser for SQLite

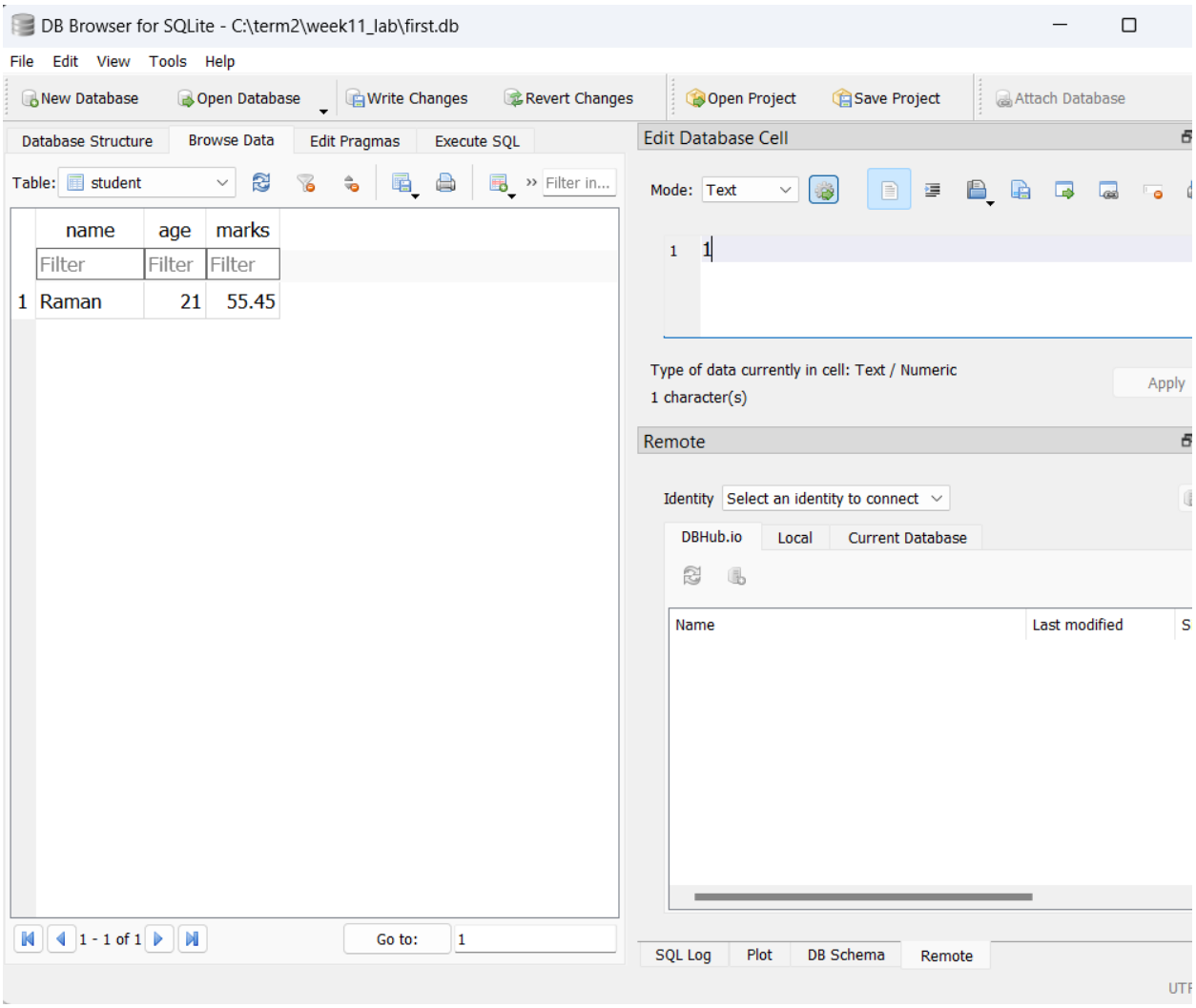


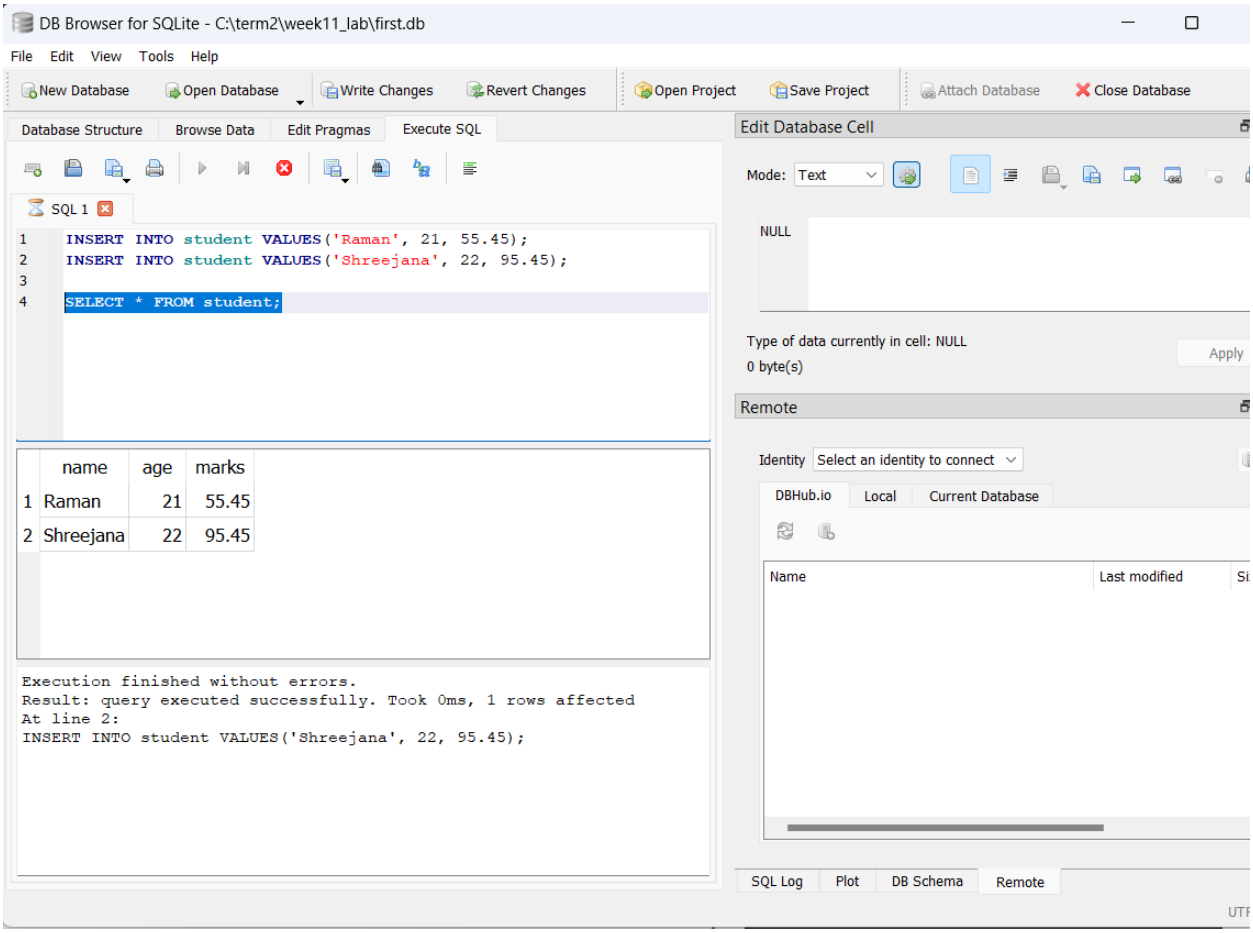

DB Browser for SQLite
File Edit View Tools Help
New Database
Open Database
Write Changes
Revert Changes
Open Project
Save Project
Attach Database
Database Structure
Browse Data
Edit Pragmas
Execute SQL
Create Table
Create Index
Modify Table
Delete Table
Name
Type
Schema
Edit Database Cell
Mode: Text
1
Type of data currently in cell
Size of data currently in table
Apply
Remote
Identity
Select an identity to connect
DBHub.io
Local
Current Database
Name
Last modified
SQL Log
Plot
DB Schema
Remote
UTF-8
ENG
US
8:51 AM
2024-07-19

# Database creation and data insertion from db browser for SQLite



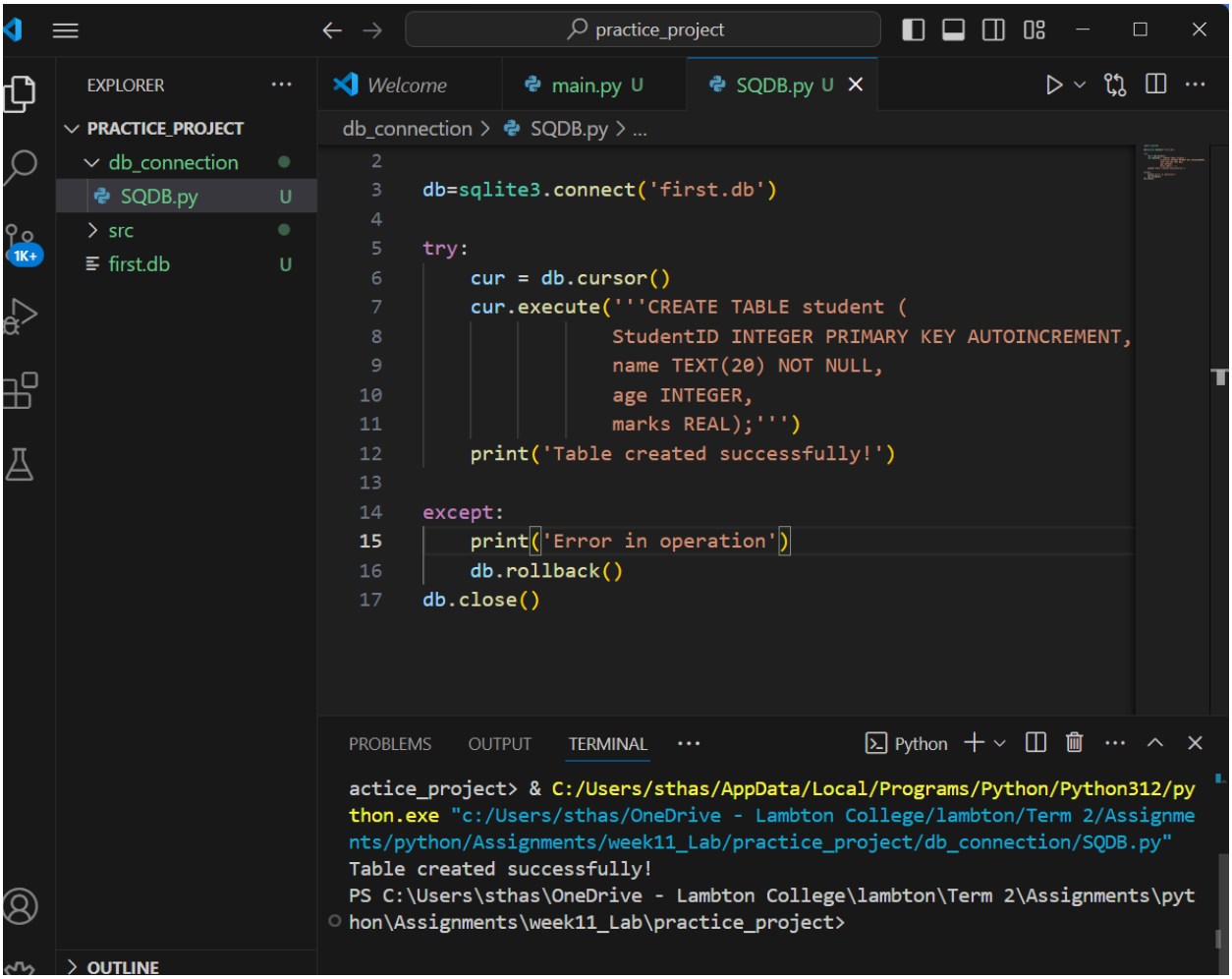

DB Browser for SQLite - C:\term2\week11_lab\first.db
File Edit View Tools Help
New Database
Open Database
Write Changes
Revert Changes
Open Project
Save Project
Attach Database
Database Structure
Browse Data
Edit Pragmas
Execute SQL
SQL 1
1 INSERT INTO student VALUES('Raman', 21, 55.45)
Execution finished without errors.
Result: query executed successfully. Took 0ms, 1 rows affected
At line 1:
INSERT INTO student VALUES('Raman', 21, 55.45)
Edit Database Cell
Mode: Text
NULL
Type of data currently in cell: NULL
0 byte(s)
Apply
Remote
Identity
Select an identity to connect
DBHub.io
Local
Current Database
Name
Last modified
SQL Log
Plot
DB Schema
Remote

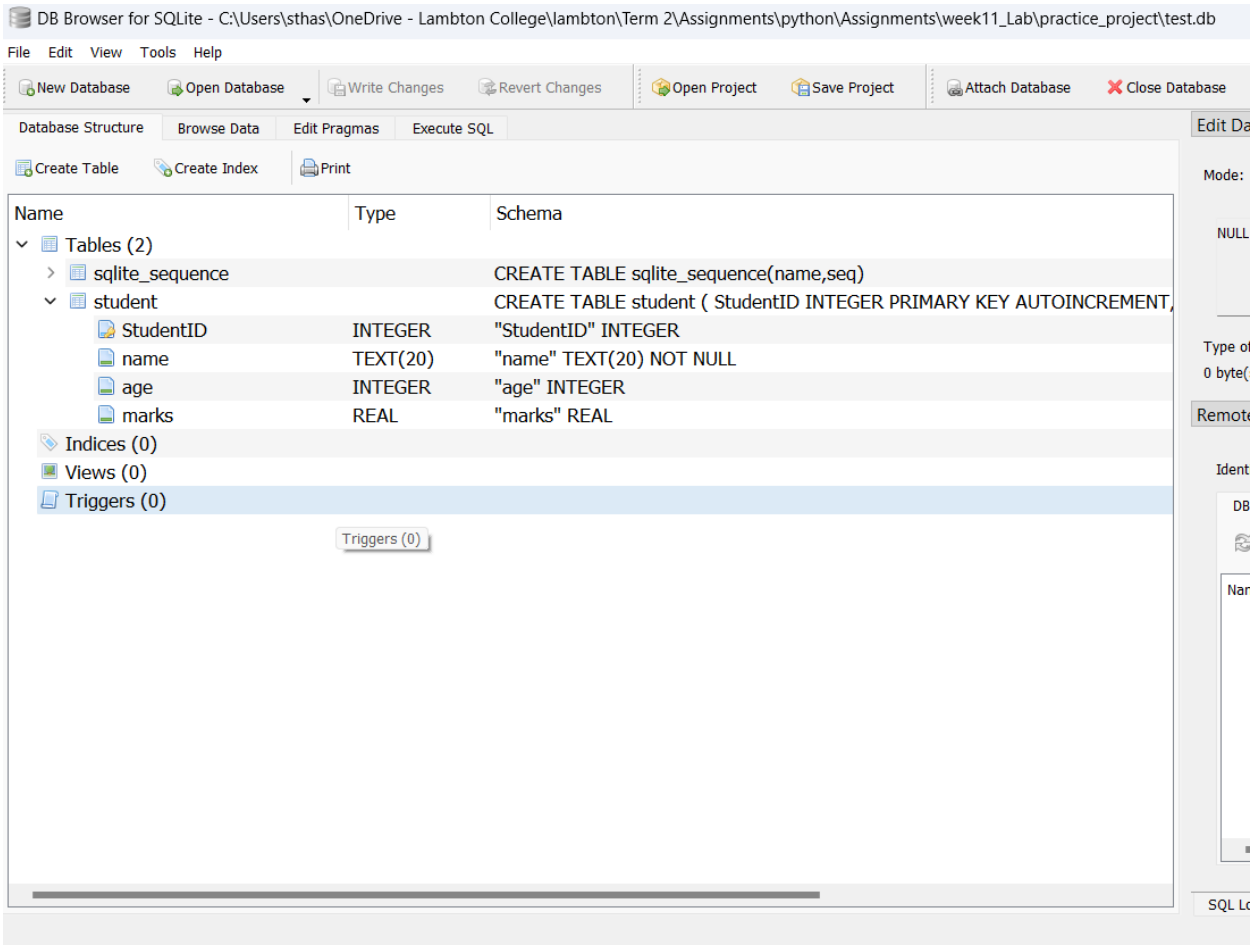

DB Browser for SQLite - C:\term2\week11_lab\first.db
File Edit View Tools Help
New Database
Open Database
Write Changes
Revert Changes
Open Project
Save Project
Attach Database
Database Structure
Browse Data
Edit Pragmas
Execute SQL
Table: student
Filter in...
name age marks
Filter Filter Filter
1 Raman 21 55.45
1 - 1 of 1
Go to: 1
Edit Database Cell
Mode: Text
1 1
Type of data currently in cell: Text / Numeric
1 character(s)
Apply
Remote
Identity Select an identity to connect
DBHub.io
Local
Current Database
Name
Last modified
SQL Log
Plot
DB Schema
Remote


DB Browser for SQLite - C:\term2\week11_lab\first.db
File Edit View Tools Help
New Database
Open Database
Write Changes
Revert Changes
Open Project
Save Project
Attach Database
Close Database
Database Structure
Browse Data
Edit Pragmas
Execute SQL
SQL 1
1 INSERT INTO student VALUES('Raman', 21, 55.45);
2 INSERT INTO student VALUES('Shreejana', 22, 95.45);
3
4 SELECT * FROM student;
name age marks
1 Raman 21 55.45
2 Shreejana 22 95.45
Execution finished without errors.
Result: query executed successfully. Took 0ms, 1 rows affected
At line 2:
INSERT INTO student VALUES('Shreejana', 22, 95.45);
Edit Database Cell
Mode: Text
NULL
Type of data currently in cell: NULL
0 byte(s)
Apply
Remote
Identity
Select an identity to connect
DBHub.io
Local
Current Database
Name
Last modified
SQL Log
Plot
DB Schema
Remote

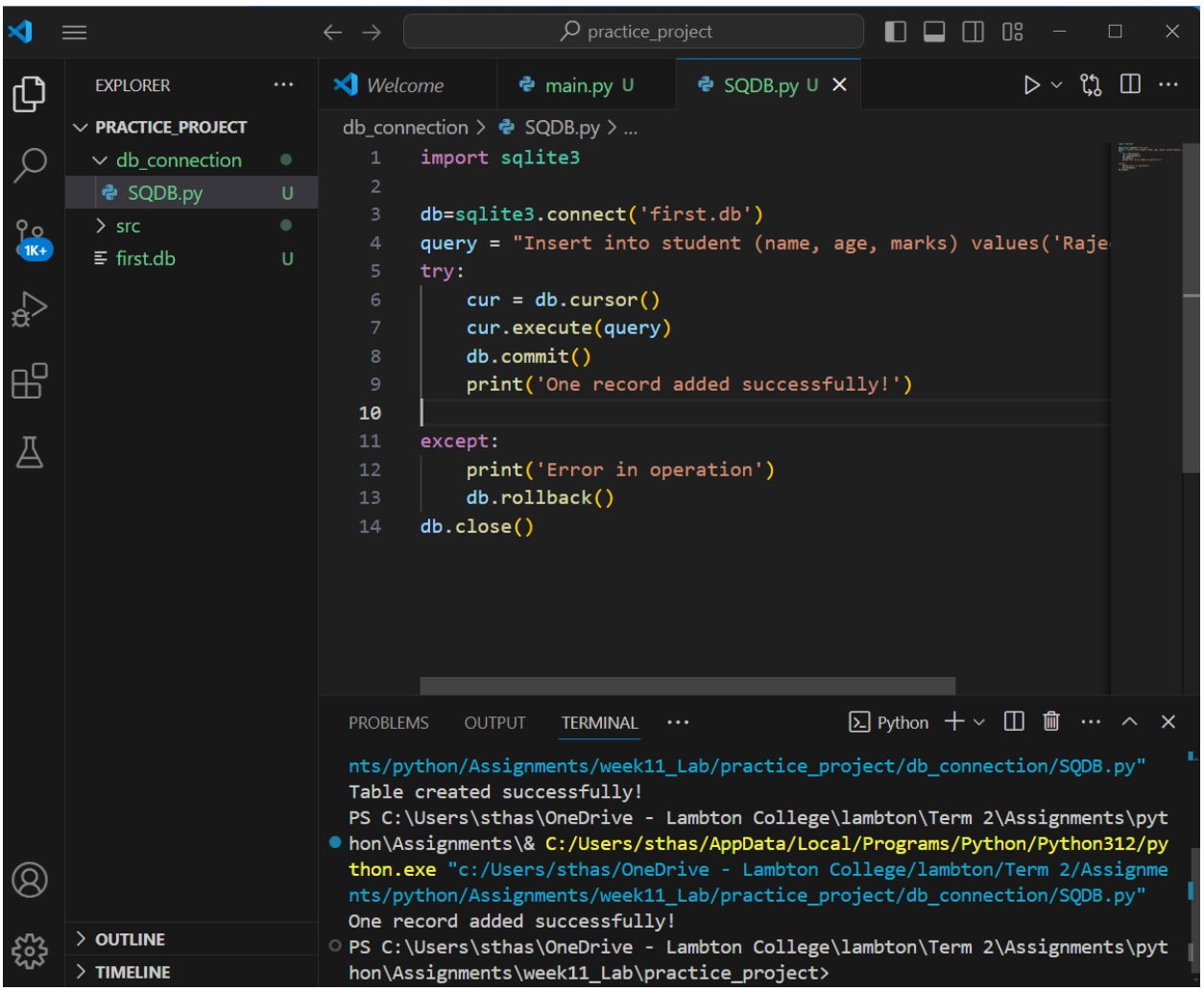
# # CRUD using python

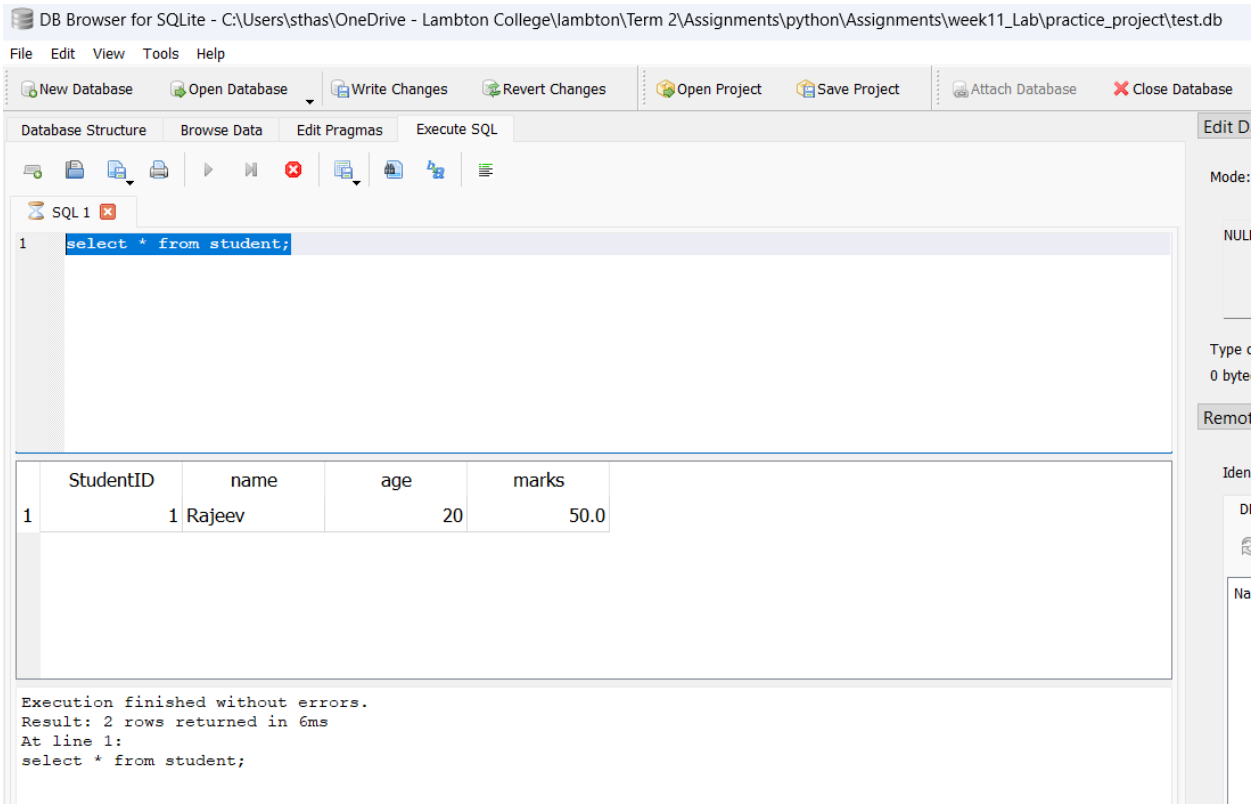
## # Table creation



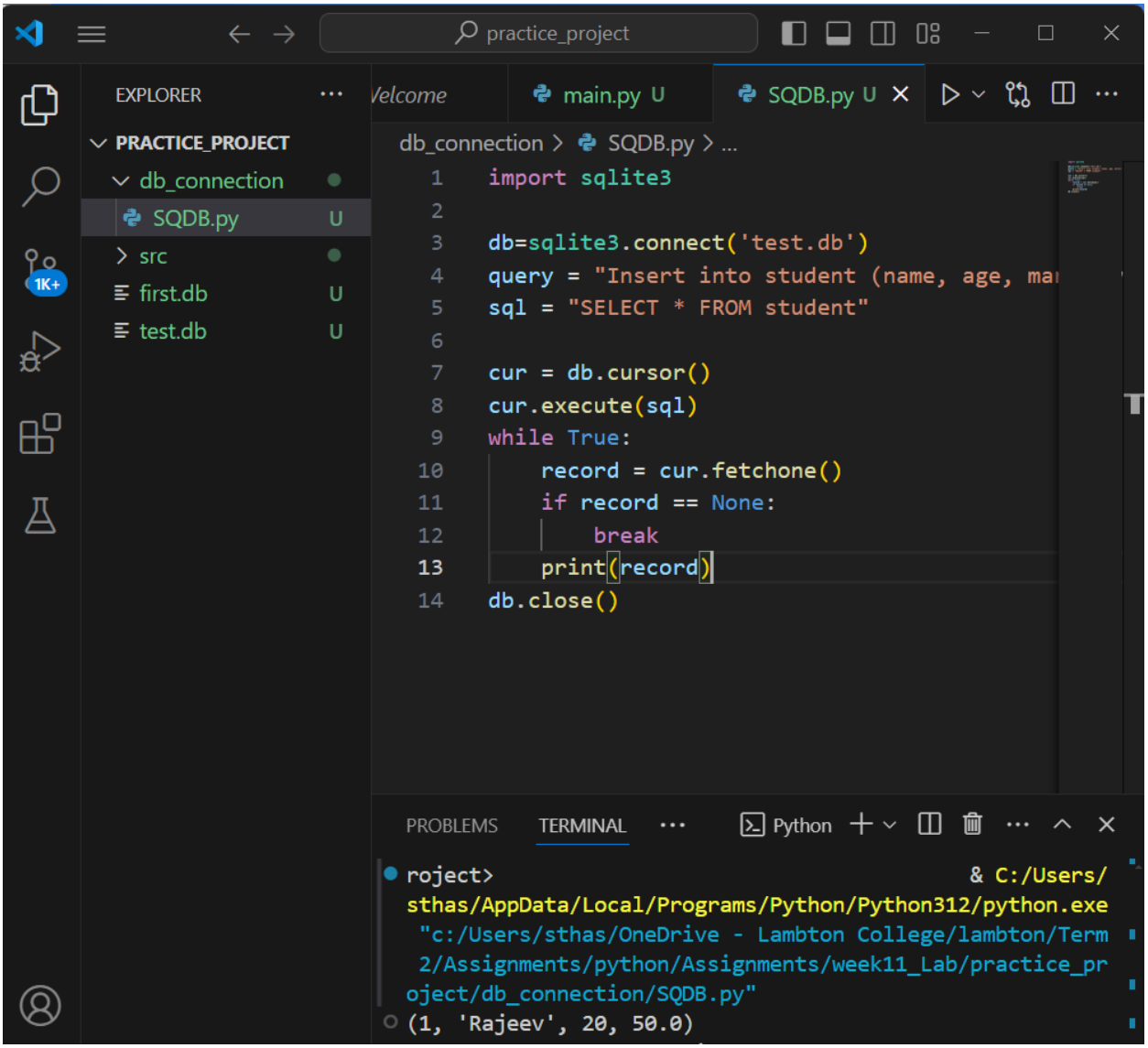

DB Browser for SQLite - C:\Users\sthas\OneDrive - Lambton College\lambton\Term 2\Assignments\python\Assignments\week11_Lab\practice_project\test.db
File Edit View Tools Help
New Database
Open Database
Write Changes
Revert Changes
Open Project
Save Project
Attach Database
Close Database
Database Structure
Browse Data
Edit Pragmas
Execute SQL
Create Table
Create Index
Print
Name
Type
Schema
Tables (2)
sqlite_sequence
CREATE TABLE sqlite_sequence(name,seq)
student
CREATE TABLE student ( StudentID INTEGER PRIMARY KEY AUTOINCREMENT,
StudentID
INTEGER
"StudentID" INTEGER
name
TEXT(20)
"name" TEXT(20) NOT NULL
age
INTEGER
"age" INTEGER
marks
REAL
"marks" REAL
Indices (0)
Views (0)
Triggers (0)
Triggers (0)
Edit Da
Mode:
NULL
Type of
0 byte(
Remote
Ident
DB
Nar
SQL Lo

# Record Insertion

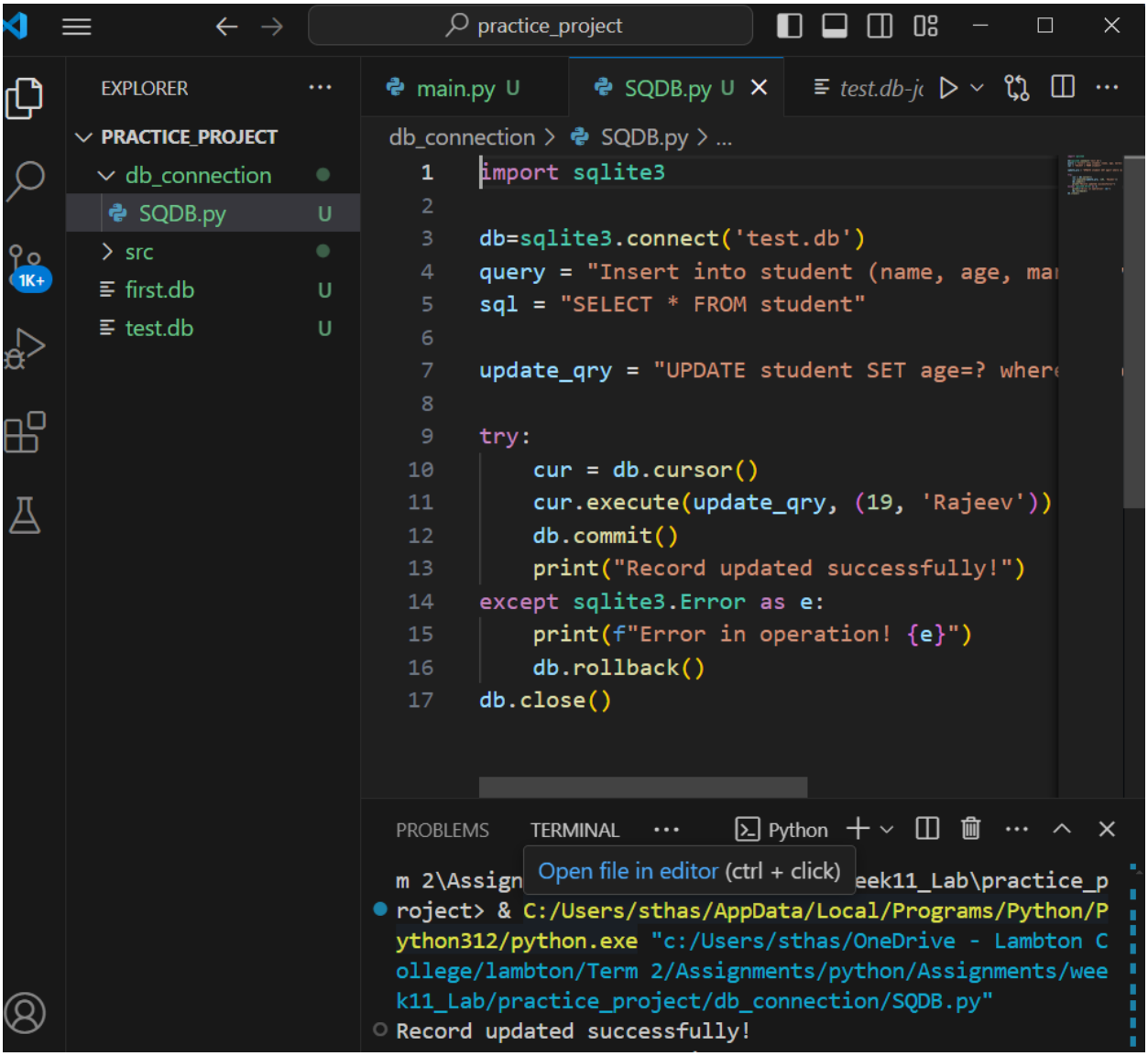


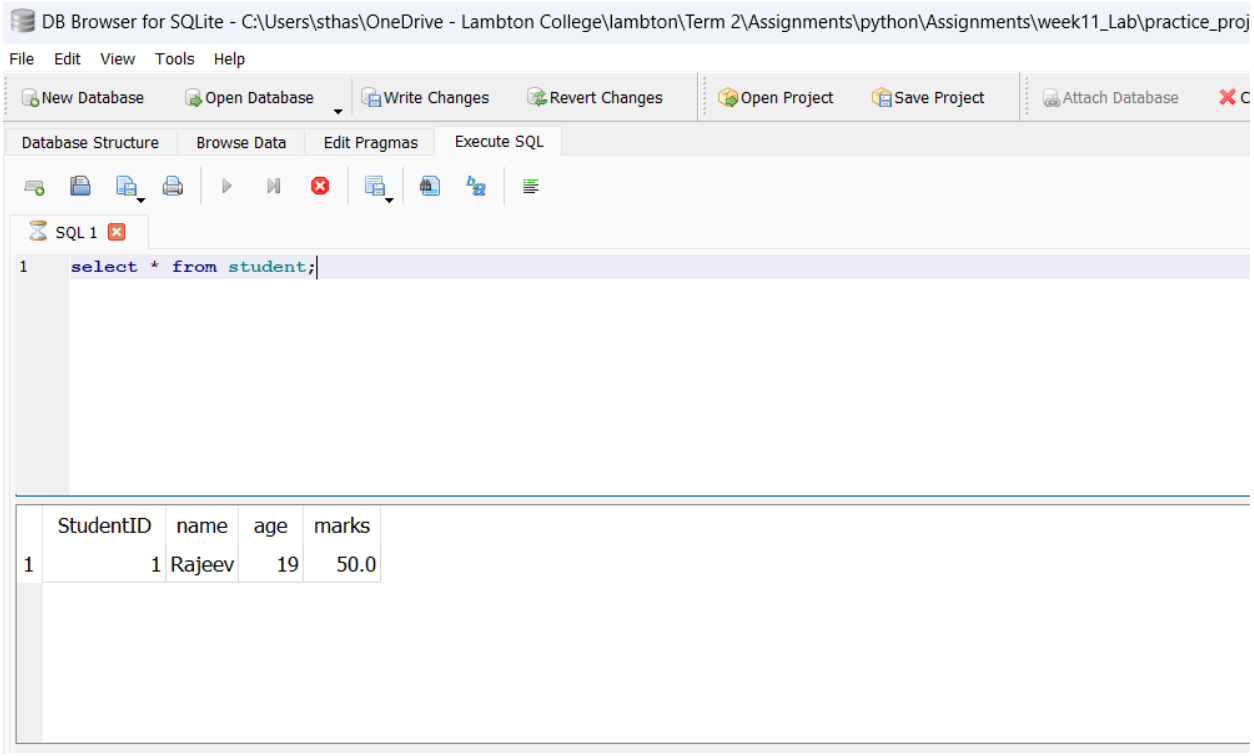

DB Browser for SQLite - C:\Users\sthas\OneDrive - Lambton College\lambton\Term 2\Assignments\python\Assignments\week11_Lab\practice_project\test.db
File Edit View Tools Help
New Database
Open Database
Write Changes
Revert Changes
Open Project
Save Project
Attach Database
Close Database
Database Structure
Browse Data
Edit Pragmas
Execute SQL
SQL 1
1 select * from student;
StudentID name age marks
1 1 Rajeev 20 50.0
Execution finished without errors.
Result: 2 rows returned in 6ms
At line 1:
select * from student;

# Data Fetching

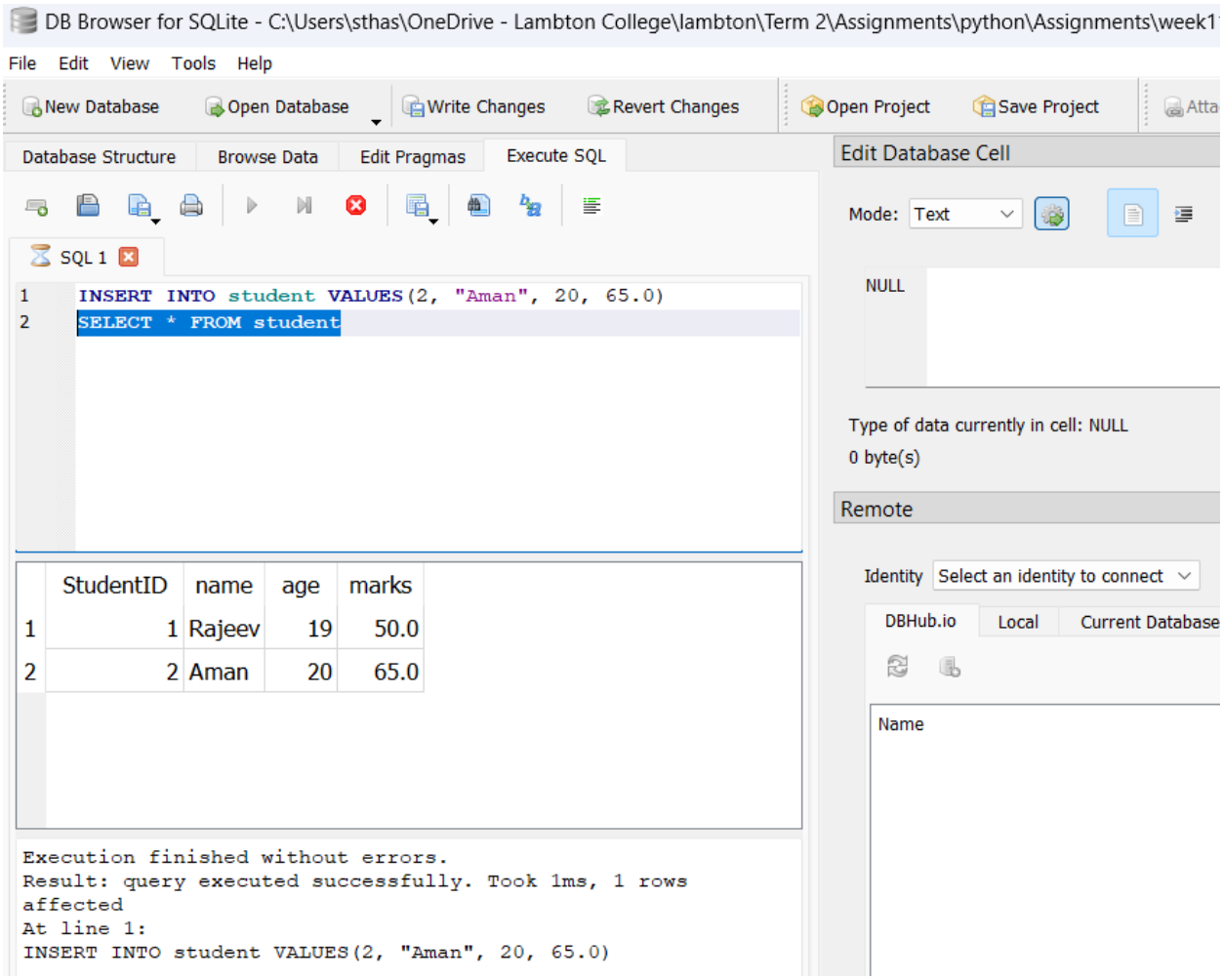


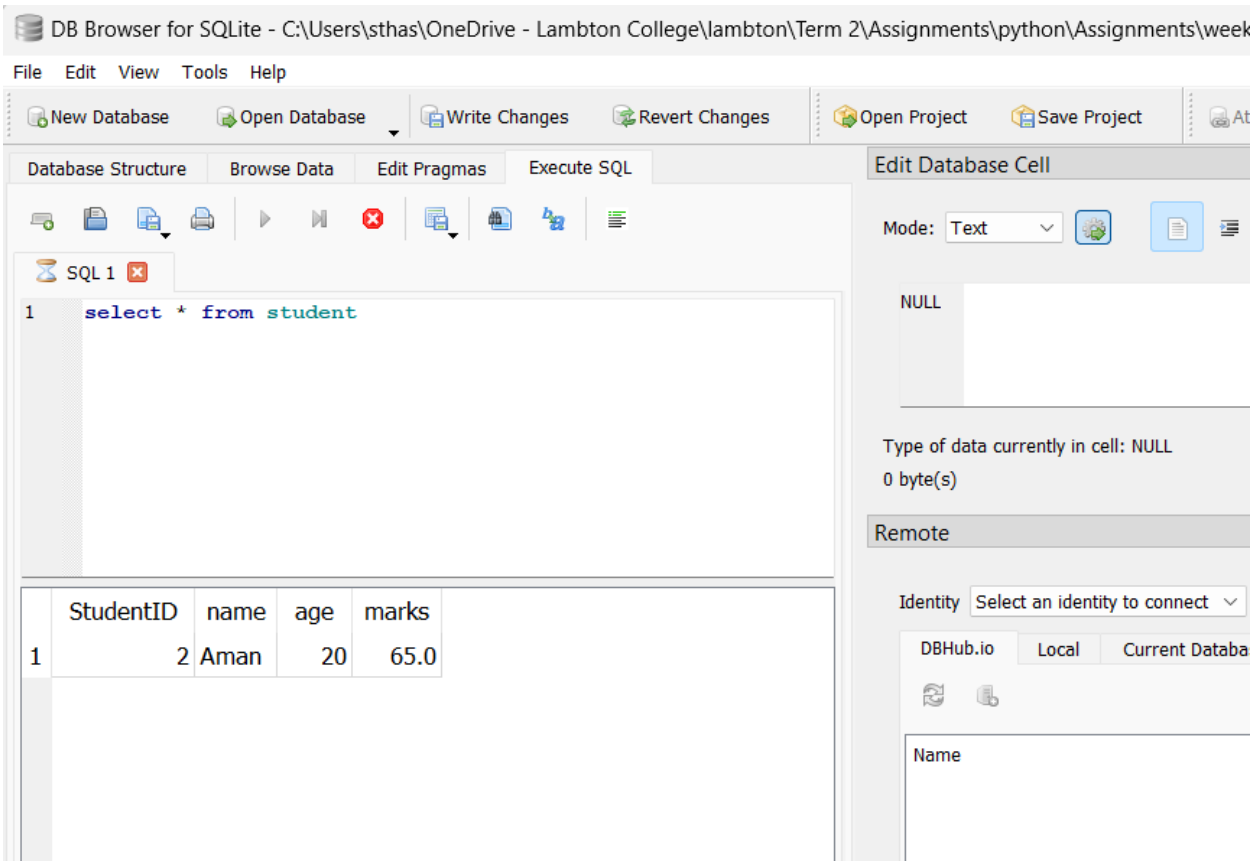
# Record Update

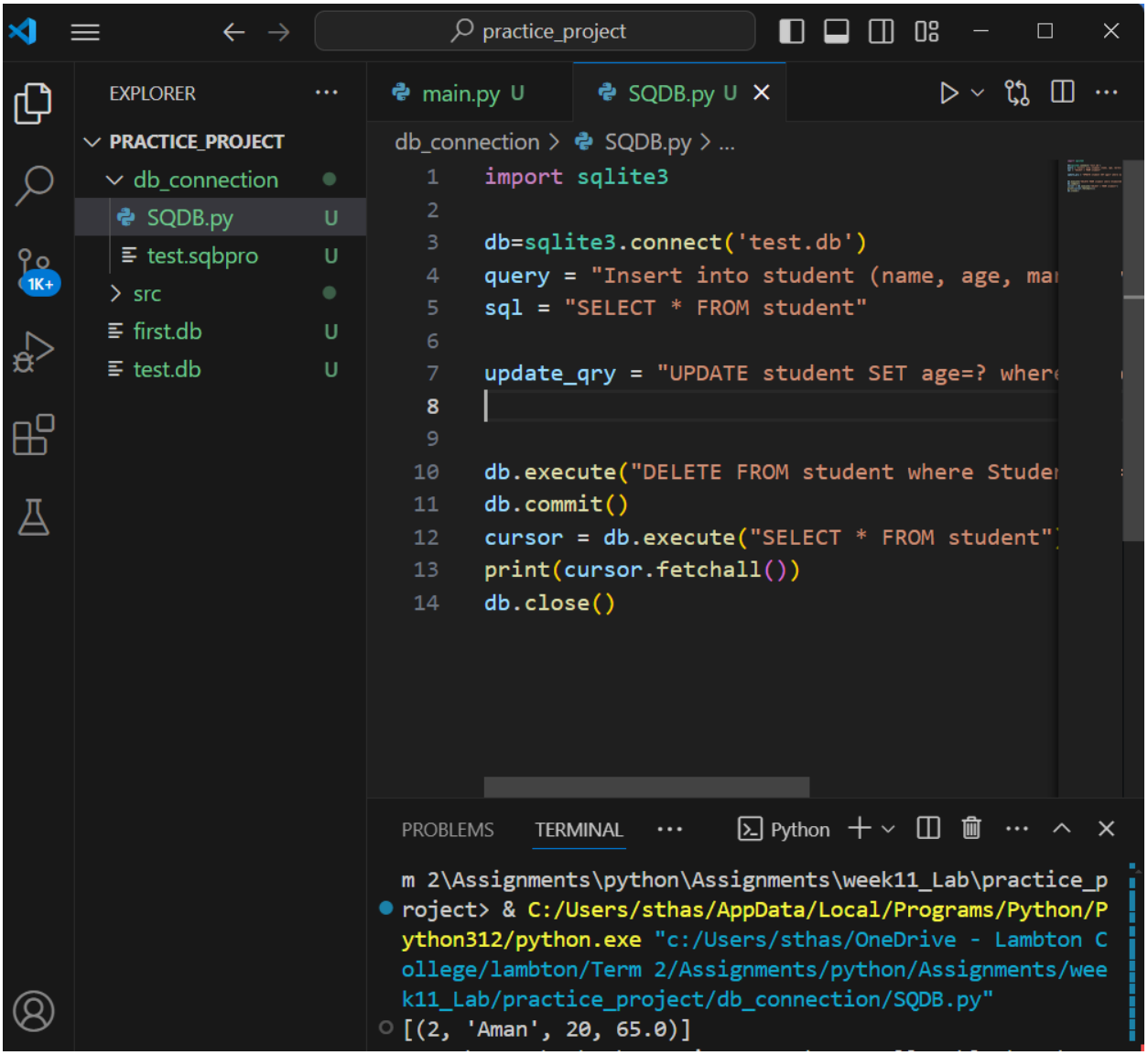



DB Browser for SQLite - C:\Users\sthas\OneDrive - Lambton College\lambton\Term 2\Assignments\python\Assignments\week11_Lab\practice_proj
File Edit View Tools Help
New Database
Open Database
Write Changes
Revert Changes
Open Project
Save Project
Attach Database
Database Structure
Browse Data
Edit Pragmas
Execute SQL
SQL 1
1 select * from student;
StudentID name age marks
1 1 Rajeev 19 50.0

# Record Delete




DB Browser for SQLite - C:\Users\sthas\OneDrive - Lambton College\lambton\Term 2\Assignments\python\Assignments\week
File Edit View Tools Help
New Database
Open Database
Write Changes
Revert Changes
Open Project
Save Project
Database Structure
Browse Data
Edit Pragmas
Execute SQL
SQL 1
1 select * from student
StudentID name age marks
1 2 Aman 20 65.0
Edit Database Cell
Mode: Text
NULL
Type of data currently in cell: NULL
0 byte(s)
Remote
Identity Select an identity to connect
DBHub.io
Local
Current Databa
Name


practice_project
EXPLORER
PRACTICE_PROJECT
db_connection
SQDB.py U
test.sqbpro U
src
first.db U
test.db U
main.py U
SQDB.py U
db_connection > SQDB.py > ...
1 import sqlite3
2
3 db=sqlite3.connect('test.db')
4 query = "Insert into student (name, age, ma
5 sql = "SELECT * FROM student"
6
7 update_qry = "UPDATE student SET age=? where
8
9
10 db.execute("DELETE FROM student where Stude
11 db.commit()
12 cursor = db.execute("SELECT * FROM student"
13 print(cursor.fetchall())
14 db.close()
PROBLEMS
TERMINAL
Python
m 2\Assignments\python\Assignments\week11_Lab\practice_p
roject> & C:/Users/sthas/AppData/Local/Programs/Python/P
ython312/python.exe "c:/Users/sthas/OneDrive - Lambton C
ollege/lambton/Term 2/Assignments/python/Assignments/wee
k11_Lab/practice_project/db_connection/SQDB.py"
[(2, 'Aman', 20, 65.0)]