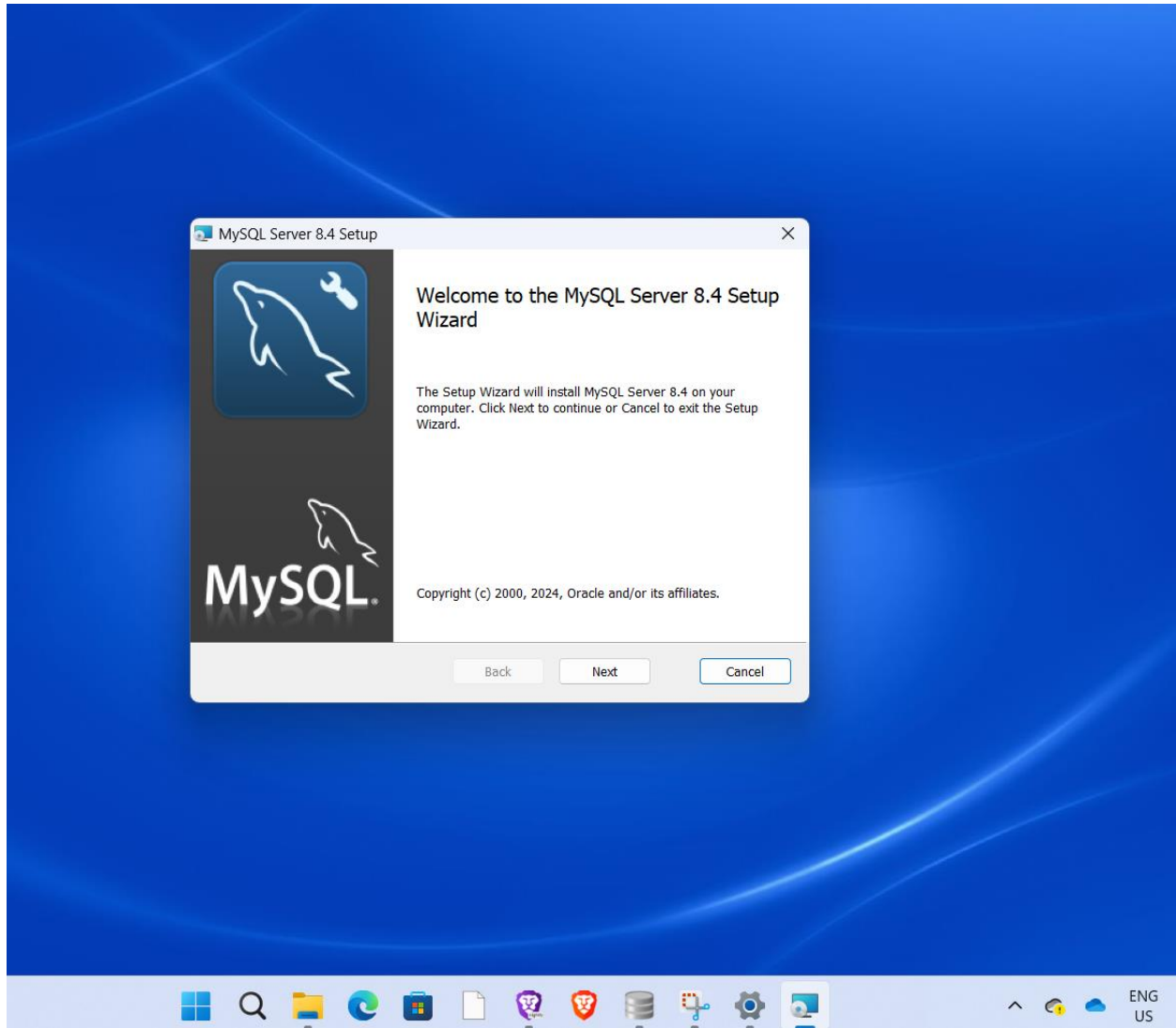
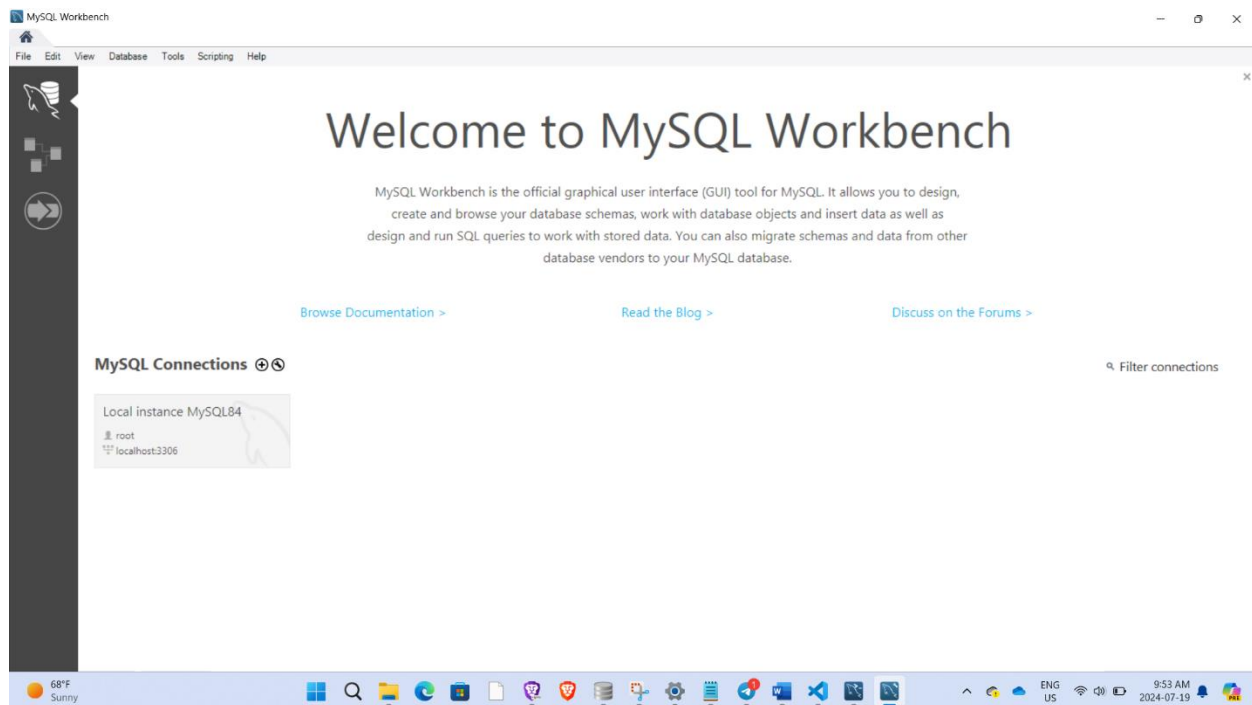
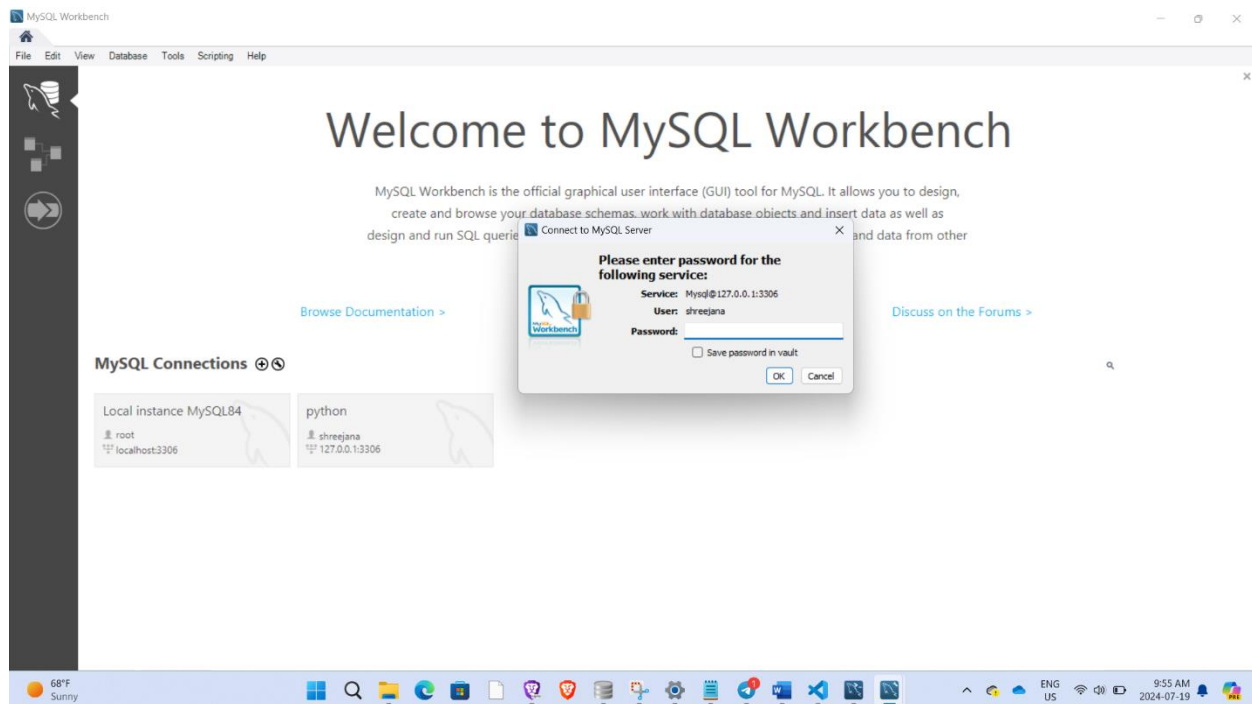


# # Installation of MySQL server and MySQL Workbench





## # Creation of connection and database table



python - Warning - not support... x

File Edit View Query Database Server Tools Scripting Help

Navigator: Query 1 x

**MANAGEMENT**

- Server Status
- Client Connections
- Users and Privileges
- Status and System Variables
- Data Export
- Data Import/Restore

**INSTANCE**

- Startup / Shutdown
- Server Logs
- Options File

**PERFORMANCE**

- Dashboard
- Performance Reports
- Performance Schema Setup

Administration Schemas

Information: No object selected

Query 1 x

Limit to 1000 rows

```
1 • create database test;
```

Output: Action Output

#	Time	Action
✓ 1	09:55:57	create database test

File Edit View Query Database Server Tools Scripting Help

SQL SQL

Navigator

SCHEMAS

Filter objects

sys

test

Tables

users

Columns

name

user\_name

Indexes

Foreign Keys

Triggers

Views

Stored Procedures

Functions

Administration Schemas

Information

Schema: test

Query 1

Limit to 1000 rows

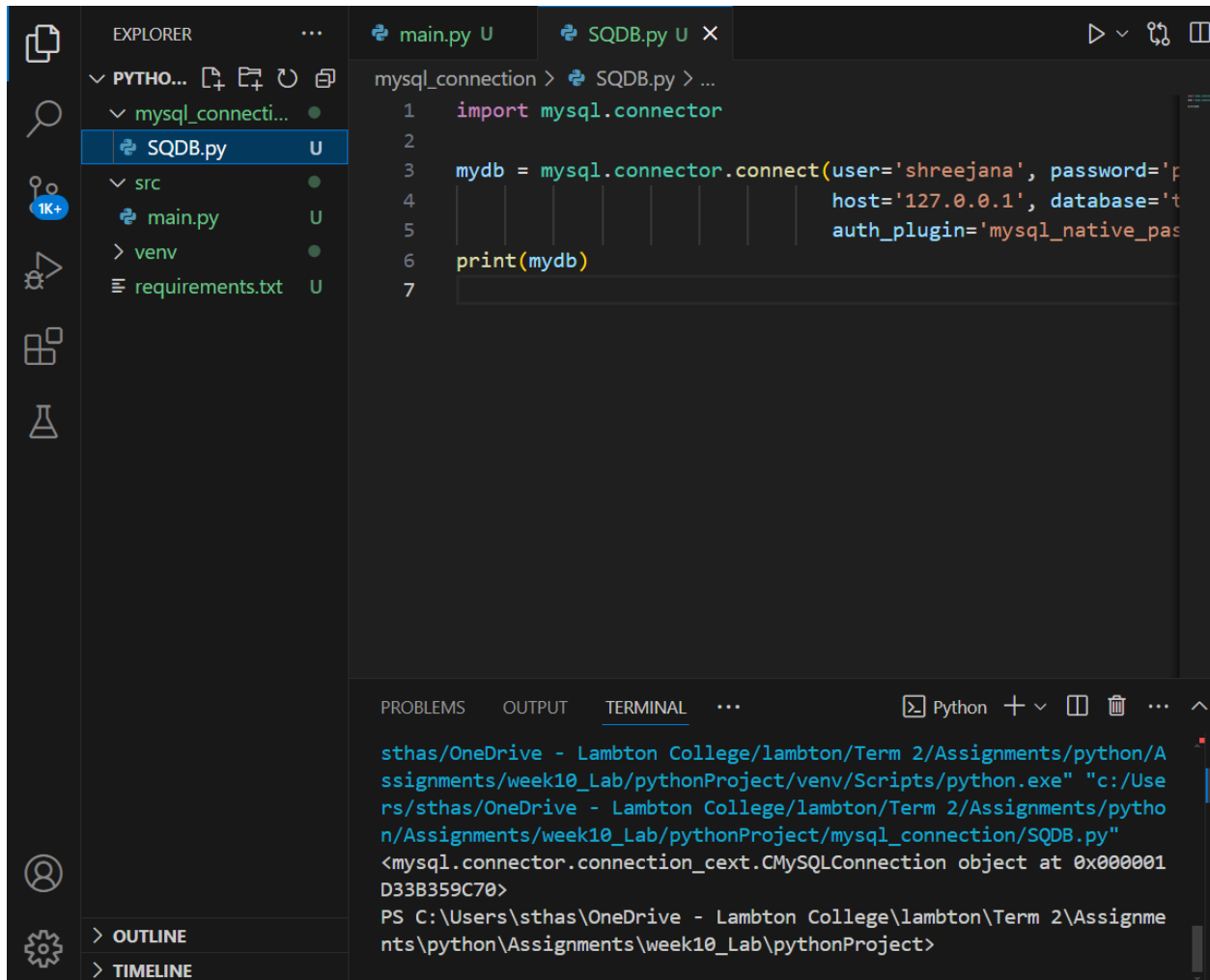
```
1 • create database test;
2
3 • use Test;
4 • CREATE TABLE users (name VARCHAR(255), user_name VARCHAR(255));
```

Output

Action Output

#	Time	Action	Message
✓ 1	21:00:47	use Test	0 row(s) affected
✓ 2	21:00:54	CREATE TABLE users (name VARCHAR(255), user...	0 row(s) affected

## # Connecting MySQL database using the connector



```
mysql_connection > SQDB.py > ...
1  import mysql.connector
2
3  mydb = mysql.connector.connect(user='shreejana', password='p
4                                     host='127.0.0.1', database='t
5                                     auth_plugin='mysql_native_pas
6  print(mydb)
7
```

sthas/OneDrive - Lambton College/lambton/Term 2/Assignments/python/A  
ssignments/week10\_Lab/pythonProject/venv/Scripts/python.exe" "c:/Use  
rs/sthas/OneDrive - Lambton College/lambton/Term 2/Assignments/pytho  
n/Assignments/week10\_Lab/pythonProject/mysql\_connection/SQDB.py"  
<mysql.connector.connection\_cext.CMySQLConnection object at 0x000001  
D33B359C70>  
PS C:\Users\sthas\OneDrive - Lambton College\lambton\Term 2\Assignme  
nts\python\Assignments\week10\_Lab\pythonProject>

## # Data Insertion using python

The screenshot shows a Visual Studio Code window titled "pythonProject". The active file is "SQDB.py U". The code in the editor is as follows:

```
mysql_connection > SQDB.py > ...  
  
2  
3 mydb = mysql.connector.connect(user='shreejana', password='pass  
4                                     host='127.0.0.1', database='test  
5                                     auth_plugin='mysql_native_passwo  
6 print(mydb)  
7  
8 cursor =mydb.cursor()  
9 query = "INSERT INTO users (name, user_name) VALUES(%s, %s)"  
10 ## storing values in a variable  
11  
12 values = ("Shreejana", "shreejanas")  
13  
14 ## executing the query with values  
15 cursor.execute(query, values)  
16  
17 ## to make final output we have to run the 'commit()' method of  
18 mydb.commit()  
19  
20
```

The interface includes a sidebar on the left with icons for Explorer, Search, Source Control, Run and Debug, Extensions, Testing, and Settings. The bottom panel contains tabs for PROBLEMS, OUTPUT, and TERMINAL. The TERMINAL tab is active, displaying the command prompt path and the execution output:

```
python\Assignments\week10_Lab\p& "c:/Users/sthas/OneDrive - Lambton Coll  
lege/lambton/Term 2/Assignments/python/Assignments/week10_Lab/pythonProje  
ct/venv/Scripts/python.exe" "c:/Users/sthas/OneDrive - Lambton College/l  
ambton/Term 2/Assignments/python/Assignments/week10_Lab/pythonProject/my  
sql_connection/SQDB.py"  
<mysql.connector.connection_cext.CMySQLConnection object at 0x0000019C88  
159F70>  
PS C:\Users\sthas\OneDrive - Lambton College\lambton\Term 2\Assignments\  
python\Assignments\week10_Lab\pythonProject>
```

MySQL Workbench

python - Warning - not suppor... x

File Edit View Query Database Server Tools Scripting Help

Navigator

**SCHEMAS**

Filter objects

- sys
- test
  - Tables
    - users
      - Columns
        - name
        - user\_name
      - Indexes
      - Foreign Keys
      - Triggers
    - Views
    - Stored Procedures
    - Functions

**Query 1**

```
1 • create database test;
2
3 • use Test;
4 • CREATE TABLE users (name VARCHAR(255), user_name VARCHAR(255));
5
6 • SELECT * FROM test.users;
```

Limit to 1000 rows

Result Grid

	name	user_name
▶	Shreejana	shreejanas

## # Fetching records using python

```
mysql_connection > SQDB.py > ...
1  import mysql.connector
2
3  mydb = mysql.connector.connect(user='shreejana', password='pass
4                                     host='127.0.0.1', database='test
5                                     auth_plugin='mysql_native_passwo
6
7  print(mydb)
8
9  cursor =mydb.cursor()
10
11  ## defining the query
12  query1 = "SELECT * FROM users"
13
14  ## getting records from the table
15  cursor.execute(query1)
16
17  ## fetching all records from the 'cursor' object
18  records = cursor.fetchall()
19
20  print(records)
```

PROBLEMS OUTPUT TERMINAL ... Python + -

- - Lambton College/lambton/Term 2/Assignments/python/Assignments/week10\_Lab/pythonProject/venv/Scripts/python.exe" "c:/Users/sthas/OneDrive - Lambton College/lambton/Term 2/Assignments/python/Assignments/week10\_Lab/pythonProject/mysql\_connection/SQDB.py"

```
<mysql.connector.connection_cext.CMySQLConnection object at 0x000002926C35A000>
[('Shreejana', 'shreejanas')]
PS C:\Users\sthas\OneDrive - Lambton College\lambton\Term 2\Assignments\python\Assignments\week10_Lab\pythonProject>
```