

SQLite Browser

- **SQLite** is a very popular database - it is free and fast and small
- **SQLite** Browser allows us to directly manipulate **SQLite** files
<http://sqlitebrowser.org/>
- **SQLite** is embedded in **Python** and a number of other languages

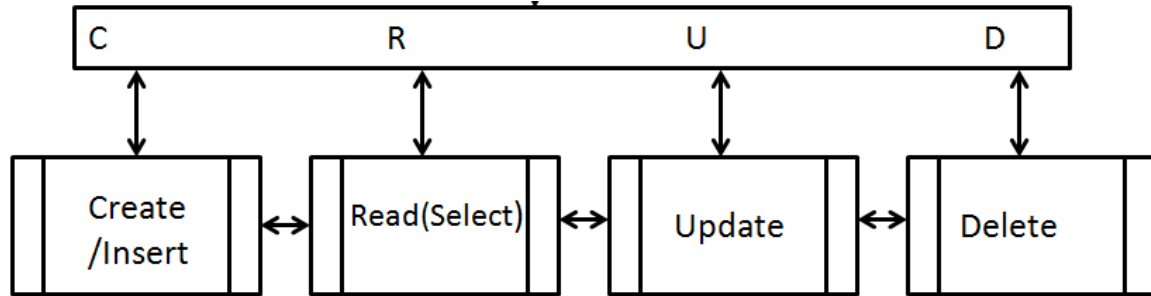
Object Oriented Programming (Using Python)

Single Table CRUD
(Create, Read, Update, and Delete)

SQL

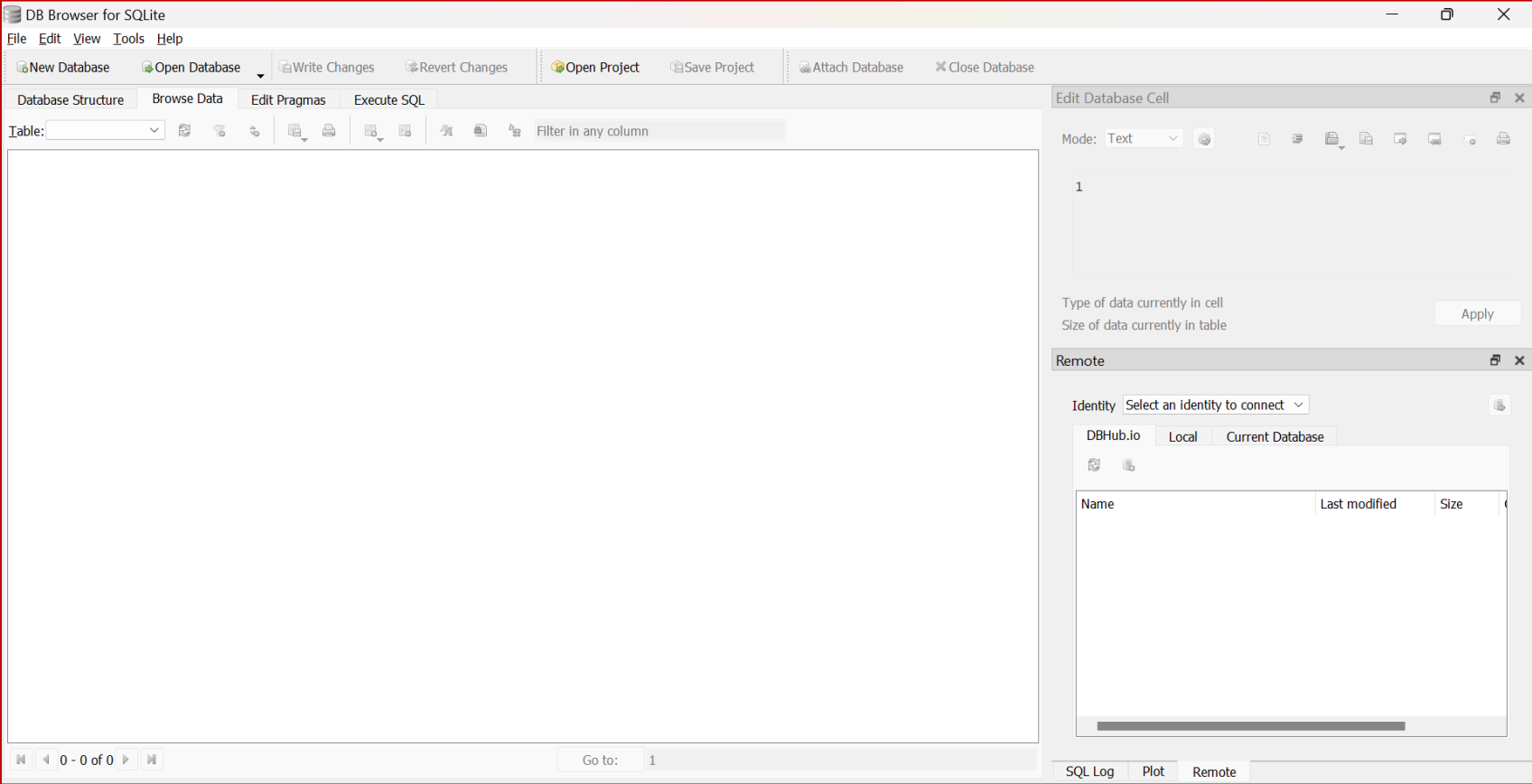
SQL (Structured Query Language) is the language we use to issue commands to the database

- Create data (also known as Add/Insert)
- Retrieve data (SELECT)
- Update data
- Delete data

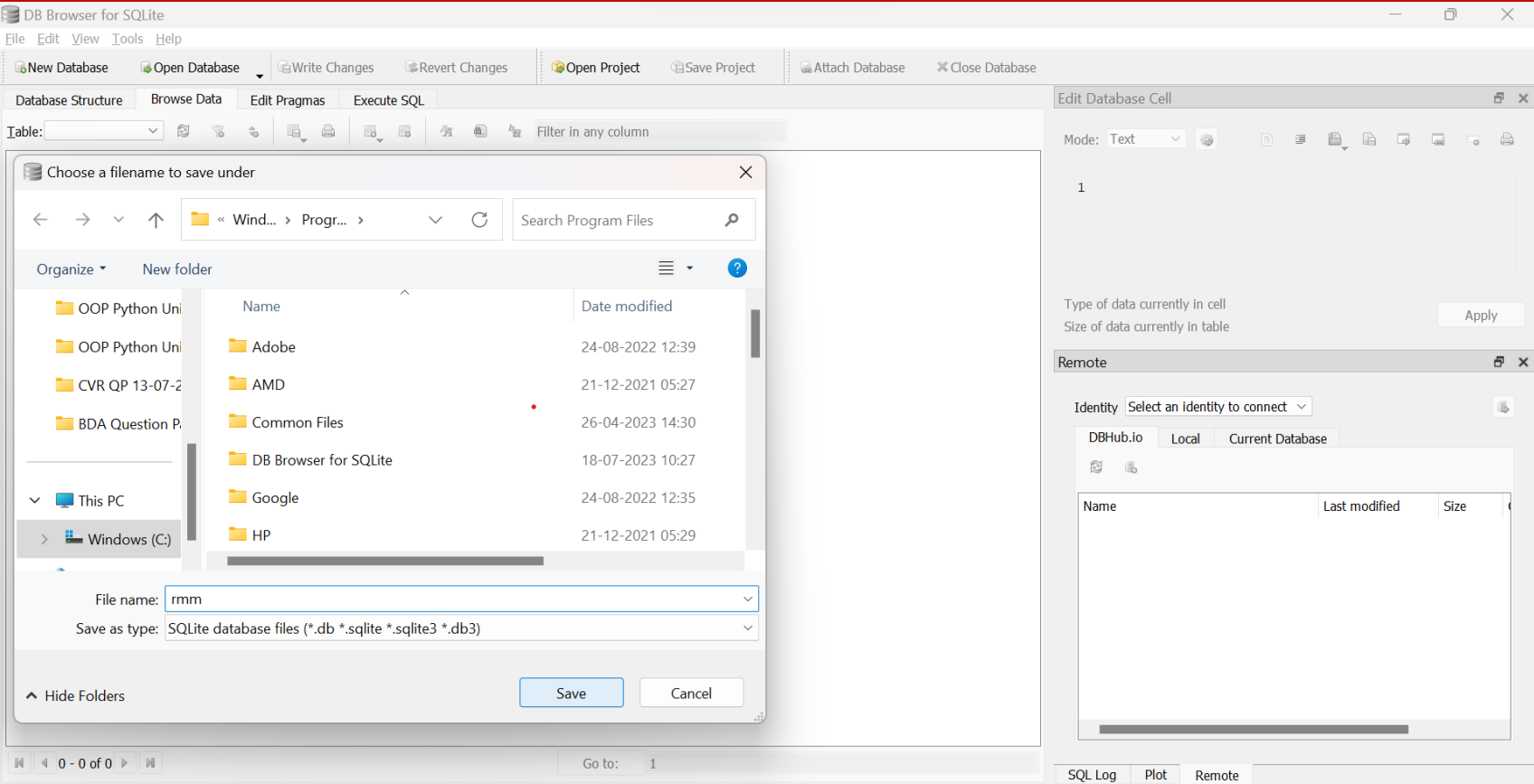


<http://en.wikipedia.org/wiki/SQL>

SQLite Browser



SQLite Browser



SQL - Create

The **CREATE** statement creates a table

```
CREATE TABLE Users(name VARCHAR(128), email VARCHAR(128))
```

The screenshot shows the DB Browser for SQLite interface. The main window displays the SQL editor with the following code:

```
1 CREATE TABLE Users(  
2   name VARCHAR(128),  
3   email VARCHAR(128)  
4 )  
5
```

Below the editor, the execution results are shown:

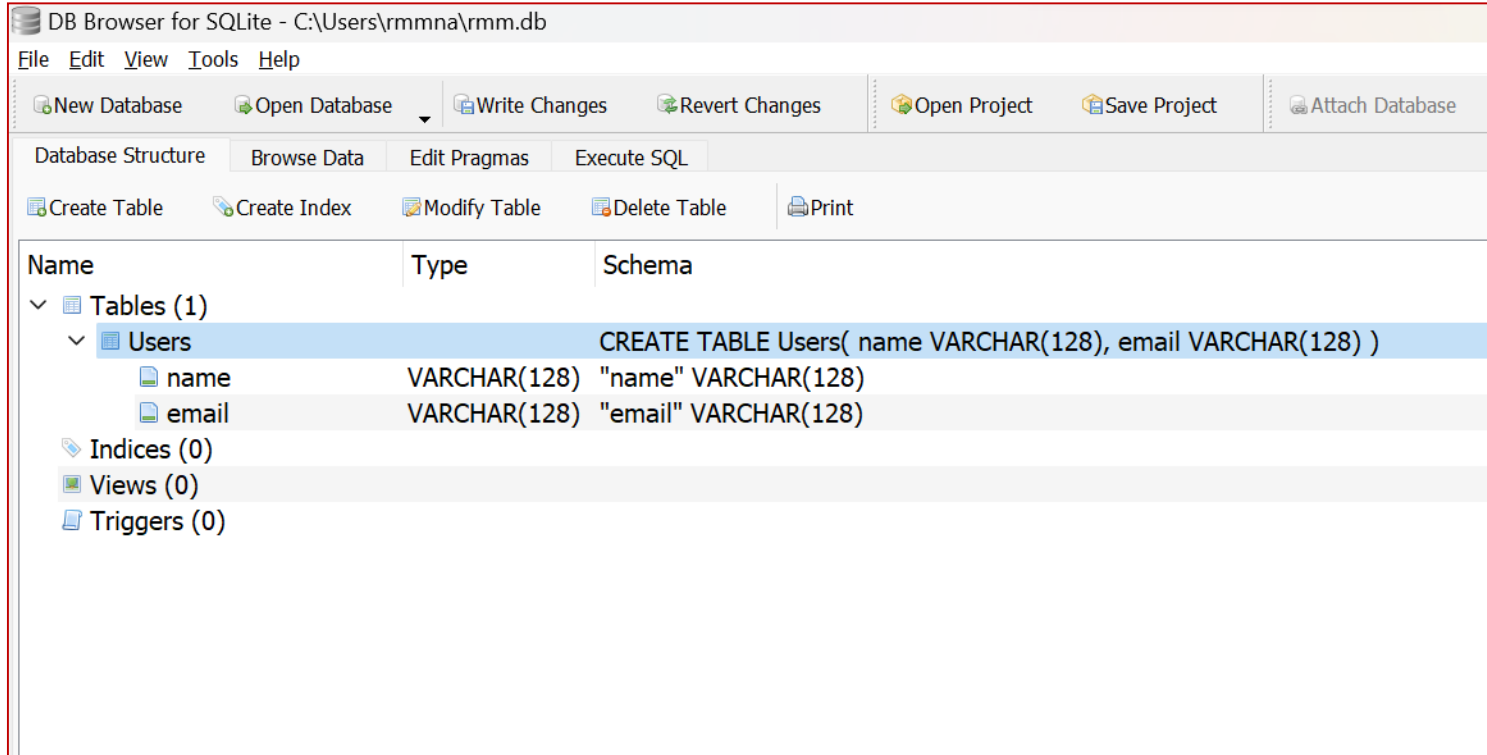
```
Execution finished without errors.  
Result: query executed successfully. Took 7ms  
At line 1:  
CREATE TABLE Users(  
  name VARCHAR(128),  
  email VARCHAR(128)  
)
```

The right-hand side of the interface shows the 'Edit Database Cell' panel, which is currently displaying 'NULL' and 'Type of data currently in cell: NULL 0 byte(s)'. Below this is the 'Remote' panel, which includes a dropdown for 'Identity' and a table with columns 'Name', 'Last modified', 'Size', and 'Com'.

SQL - Create

The **CREATE** statement creates a table

```
CREATE TABLE Users(name VARCHAR(128), email VARCHAR(128))
```



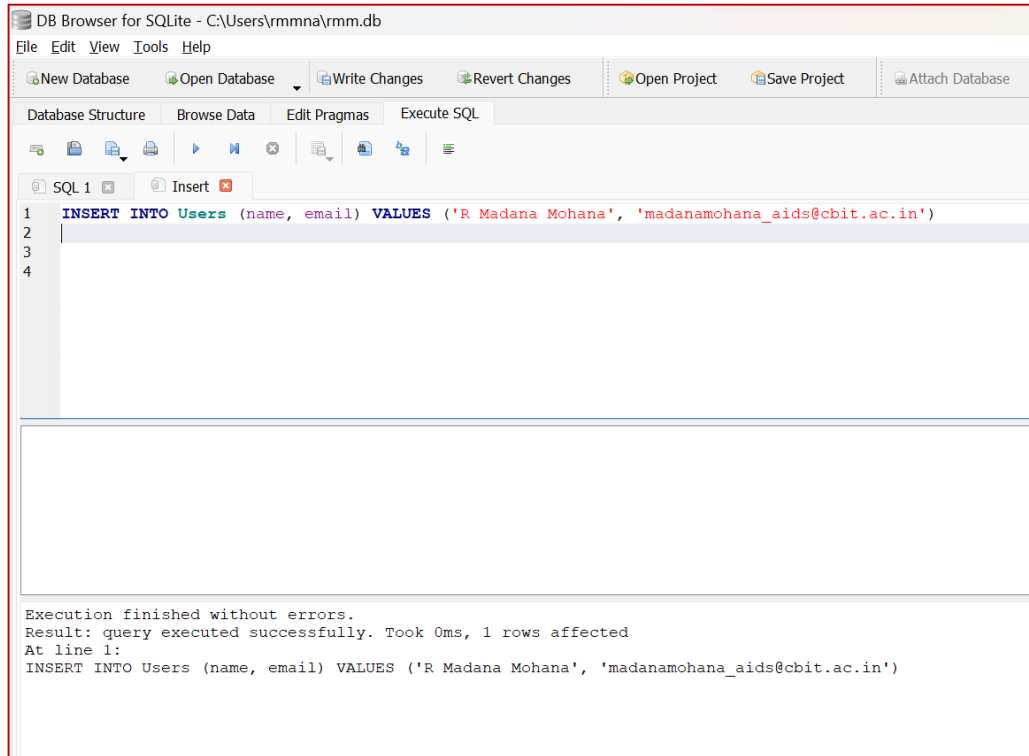
The screenshot shows the 'DB Browser for SQLite' interface. The title bar indicates the database path: 'C:\Users\rmmna\rmm.db'. The menu bar includes 'File', 'Edit', 'View', 'Tools', and 'Help'. The toolbar contains buttons for 'New Database', 'Open Database', 'Write Changes', 'Revert Changes', 'Open Project', 'Save Project', and 'Attach Database'. Below the toolbar are tabs for 'Database Structure', 'Browse Data', 'Edit Pragmas', and 'Execute SQL'. A secondary toolbar includes 'Create Table', 'Create Index', 'Modify Table', 'Delete Table', and 'Print'. The main area displays a tree view of the database structure. Under 'Tables (1)', the 'Users' table is expanded, showing its columns: 'name' (VARCHAR(128)) and 'email' (VARCHAR(128)). The 'Schema' column for the 'Users' table displays the full CREATE TABLE statement: 'CREATE TABLE Users(name VARCHAR(128), email VARCHAR(128))'. Below the table list, there are sections for 'Indices (0)', 'Views (0)', and 'Triggers (0)'.

Name	Type	Schema
Tables (1)		
Users		CREATE TABLE Users(name VARCHAR(128), email VARCHAR(128))
name	VARCHAR(128)	"name" VARCHAR(128)
email	VARCHAR(128)	"email" VARCHAR(128)
Indices (0)		
Views (0)		
Triggers (0)		

SQL - Insert

The **Insert** statement **inserts** a **row** into a **table**

```
INSERT INTO Users (name, email) VALUES ('R Madana Mohana',  
'madanamohana_aids@cbit.ac.in')
```



The screenshot shows the DB Browser for SQLite interface. The title bar indicates the database file is located at C:\Users\rmmna\rmm.db. The menu bar includes File, Edit, View, Tools, and Help. The toolbar contains buttons for New Database, Open Database, Write Changes, Revert Changes, Open Project, Save Project, and Attach Database. The main window has tabs for Database Structure, Browse Data, Edit Pragmas, and Execute SQL. The Execute SQL tab is active, showing a single SQL statement in a text area: `INSERT INTO Users (name, email) VALUES ('R Madana Mohana', 'madanamohana_aids@cbit.ac.in')`. Below the text area, there is a large empty space, likely for the query results. At the bottom of the window, a status bar displays the execution output: "Execution finished without errors. Result: query executed successfully. Took 0ms, 1 rows affected. At line 1: INSERT INTO Users (name, email) VALUES ('R Madana Mohana', 'madanamohana_aids@cbit.ac.in')

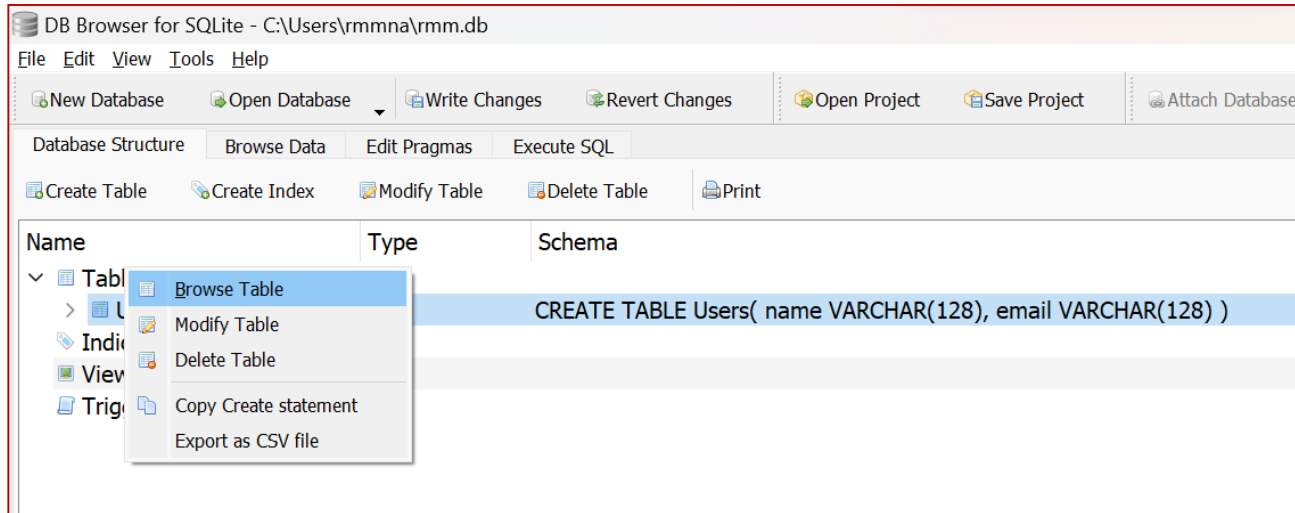
SQL - Insert

The **Insert** statement **inserts** a **row** into a **table**

```
INSERT INTO Users (name, email) VALUES ('R Madana Mohana',  
'madanamohana_aids@cbit.ac.in')
```

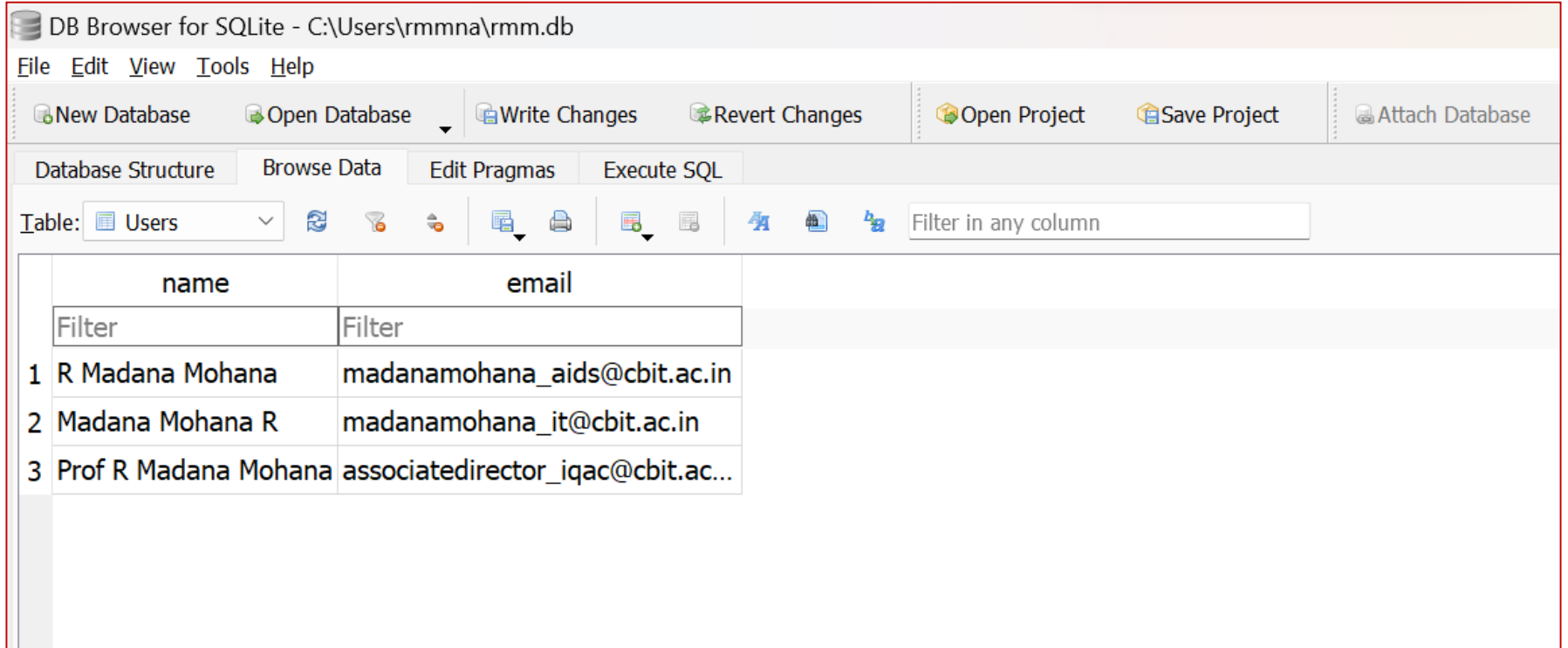
```
INSERT INTO Users (name, email) VALUES ('Madana Mohana R',  
'madanamohana_it@cbit.ac.in')
```

```
INSERT INTO Users (name, email) VALUES ('Prof R Madana Mohana',  
'associatedirector_igac@cbit.ac.in')
```



SQL - Insert

The **Insert** statement **inserts** a **row** into a **table**



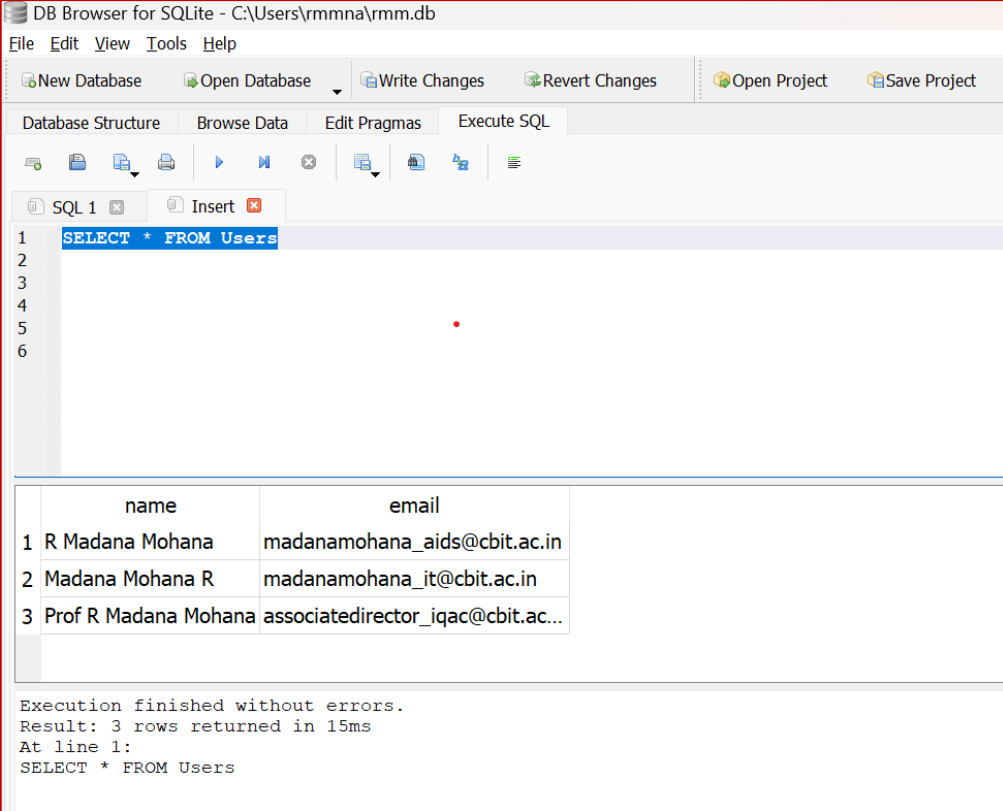
The screenshot shows the DB Browser for SQLite interface. The title bar indicates the database is 'C:\Users\rmmna\rmm.db'. The menu bar includes File, Edit, View, Tools, and Help. The toolbar contains buttons for New Database, Open Database, Write Changes, Revert Changes, Open Project, Save Project, and Attach Database. The main window has tabs for Database Structure, Browse Data, Edit Pragmas, and Execute SQL. The 'Table:' dropdown is set to 'Users'. Below the table name is a search filter input field with the placeholder text 'Filter in any column'. The table data is as follows:

	name	email
	Filter	Filter
1	R Madana Mohana	madanamohana_aids@cbit.ac.in
2	Madana Mohana R	madanamohana_it@cbit.ac.in
3	Prof R Madana Mohana	associatedirector_iqac@cbit.ac...

SQL – Retrieving Records: Select

The **SELECT** statement retrieves a group of records - we can either **retrieve all** the records or a **subset of the records** with a **WHERE** clause.

```
SELECT * FROM Users
```



The screenshot shows the DB Browser for SQLite application. The title bar indicates the database path: C:\Users\rmmna\rmm.db. The menu bar includes File, Edit, View, Tools, and Help. The toolbar contains icons for New Database, Open Database, Write Changes, Revert Changes, Open Project, and Save Project. The main window has tabs for Database Structure, Browse Data, Edit Pragmas, and Execute SQL. The SQL editor shows the query `SELECT * FROM Users` on line 1. Below the editor, a table displays the results of the query:

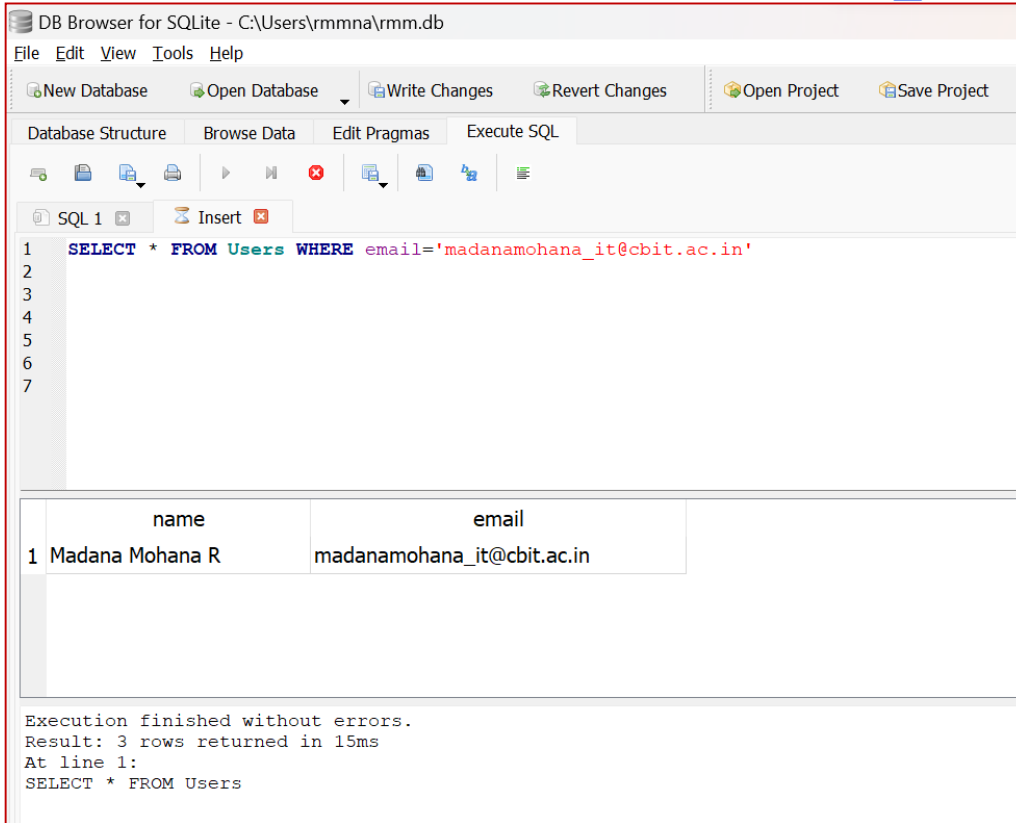
	name	email
1	R Madana Mohana	madanamohana_aids@cbit.ac.in
2	Madana Mohana R	madanamohana_it@cbit.ac.in
3	Prof R Madana Mohana	associatedirector_iqac@cbit.ac...

At the bottom of the window, the status bar displays the following information:

```
Execution finished without errors.  
Result: 3 rows returned in 15ms  
At line 1:  
SELECT * FROM Users
```

SQL – Retrieving Records: Select

```
SELECT * FROM Users WHERE email='madanamohana_it@cbit.ac.in'
```



The screenshot shows the DB Browser for SQLite interface. The title bar indicates the database file is located at C:\Users\rmmna\rmm.db. The menu bar includes File, Edit, View, Tools, and Help. The toolbar contains icons for New Database, Open Database, Write Changes, Revert Changes, Open Project, and Save Project. The main window has tabs for Database Structure, Browse Data, Edit Pragmas, and Execute SQL. The Execute SQL tab is active, showing a SQL query in a text area. Below the text area, a table displays the results of the query. The table has two columns: name and email. The first row shows the name 'Madana Mohana R' and the email 'madanamohana_it@cbit.ac.in'. At the bottom of the window, a status bar indicates that the execution finished without errors, 3 rows were returned in 15ms, and the query executed was 'SELECT * FROM Users'.

```
DB Browser for SQLite - C:\Users\rmmna\rmm.db
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 Insert
1 SELECT * FROM Users WHERE email='madanamohana_it@cbit.ac.in'
2
3
4
5
6
7
```

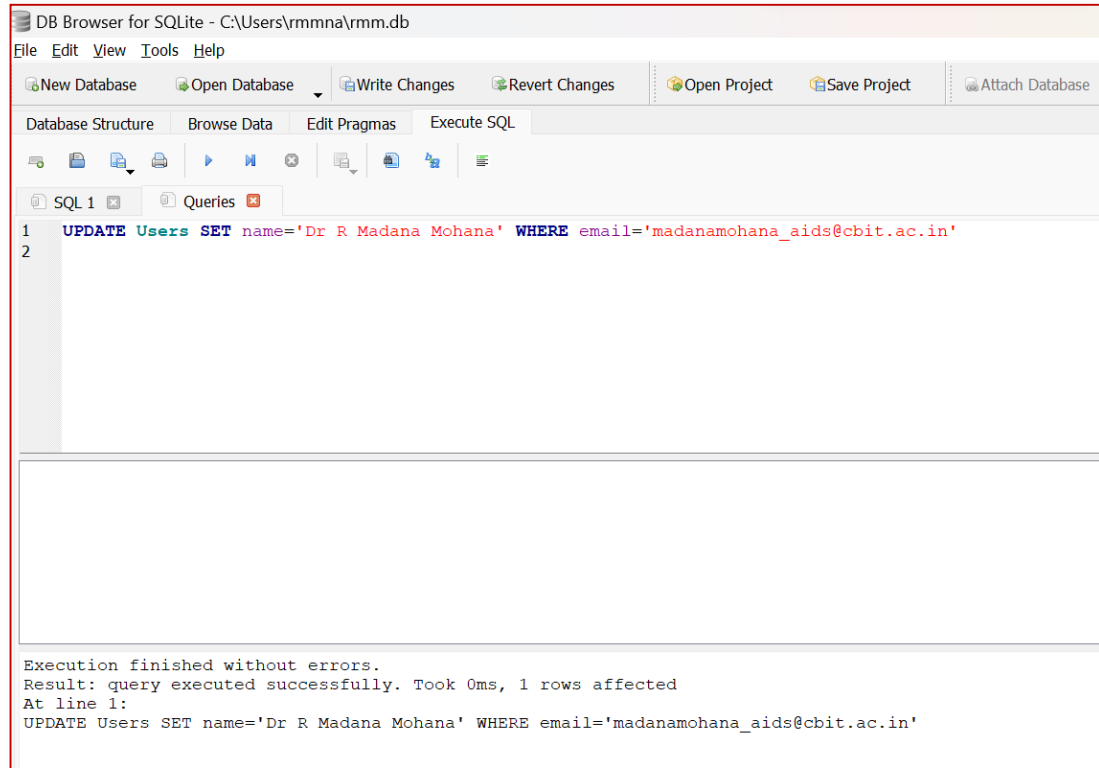
	name	email
1	Madana Mohana R	madanamohana_it@cbit.ac.in

Execution finished without errors.
Result: 3 rows returned in 15ms
At line 1:
SELECT * FROM Users

SQL – Update

Allows the **updating** of a field with a **WHERE** clause

```
UPDATE Users SET name='Dr R Madana Mohana' WHERE  
email='madanamohana_aids@cbit.ac.in'
```



The screenshot shows the DB Browser for SQLite interface. The title bar indicates the database path: C:\Users\ymmna\ymmna.db. The menu bar includes File, Edit, View, Tools, and Help. The toolbar contains buttons for New Database, Open Database, Write Changes, Revert Changes, Open Project, Save Project, and Attach Database. The main window has tabs for Database Structure, Browse Data, Edit Pragmas, and Execute SQL. The SQL editor shows the following query:

```
1 UPDATE Users SET name='Dr R Madana Mohana' WHERE email='madanamohana_aids@cbit.ac.in'  
2
```

Below the editor, the execution results are displayed:

```
Execution finished without errors.  
Result: query executed successfully. Took 0ms, 1 rows affected  
At line 1:  
UPDATE Users SET name='Dr R Madana Mohana' WHERE email='madanamohana_aids@cbit.ac.in'
```

SQL – Update

Output before and after Update:

```
select * from Users
```

The screenshot shows the DB Browser for SQLite interface. The SQL editor contains the query `SELECT * FROM Users`. The results table below shows three rows of data:

	name	email
1	R Madana Mohana	madanamohana_aids@cbit.ac.in
2	Madana Mohana R	madanamohana_it@cbit.ac.in
3	Prof R Madana Mohana	associatedirector_iqac@cbit.ac...

Execution finished without errors.
Result: 3 rows returned in 15ms
At line 1:
SELECT * FROM Users

The screenshot shows the DB Browser for SQLite interface after an update. The SQL editor contains the query `select * from Users`. The results table below shows three rows of data:

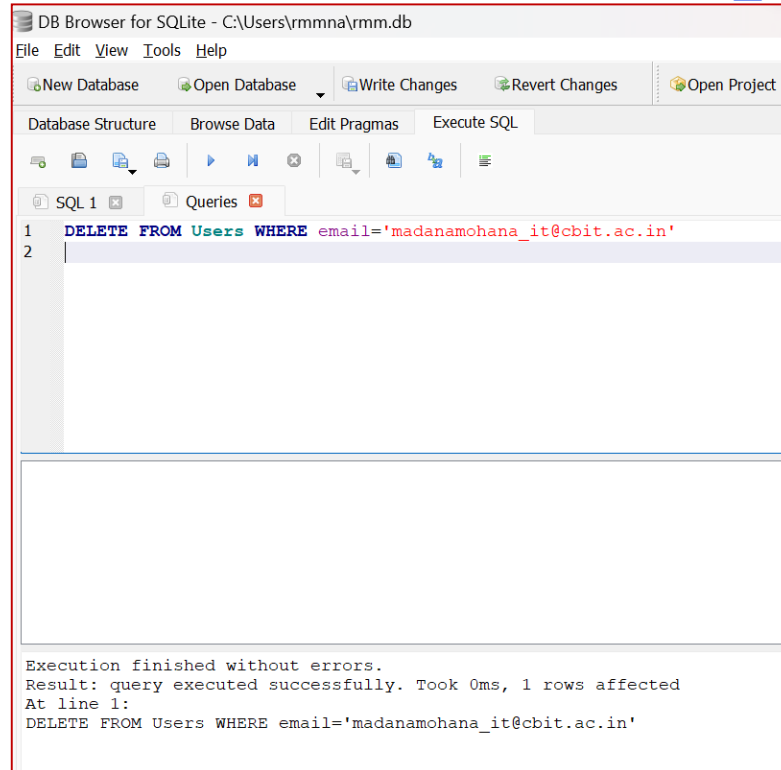
	name	email
1	Dr R Madana Mohana	madanamohana_aids@cbit.ac.in
2	Madana Mohana R	madanamohana_it@cbit.ac.in
3	Prof R Madana Mohana	associatedirector_iqac@cbit.ac.in

Execution finished without errors.
Result: 3 rows returned in 10ms
At line 1:
select * from Users

SQL – Delete

Deletes a row in a table based on selection criteria

```
DELETE FROM Users WHERE email='madanamohana_it@cbit.ac.in'
```



The screenshot shows the DB Browser for SQLite interface. The title bar indicates the database file is 'C:\Users\rmmna\rmm.db'. The menu bar includes 'File', 'Edit', 'View', 'Tools', and 'Help'. The toolbar contains buttons for 'New Database', 'Open Database', 'Write Changes', 'Revert Changes', and 'Open Project'. The main window has tabs for 'Database Structure', 'Browse Data', 'Edit Pragmas', and 'Execute SQL'. The 'Execute SQL' tab is active, showing a query editor with the following SQL statement:

```
1 DELETE FROM Users WHERE email='madanamohana_it@cbit.ac.in'
```

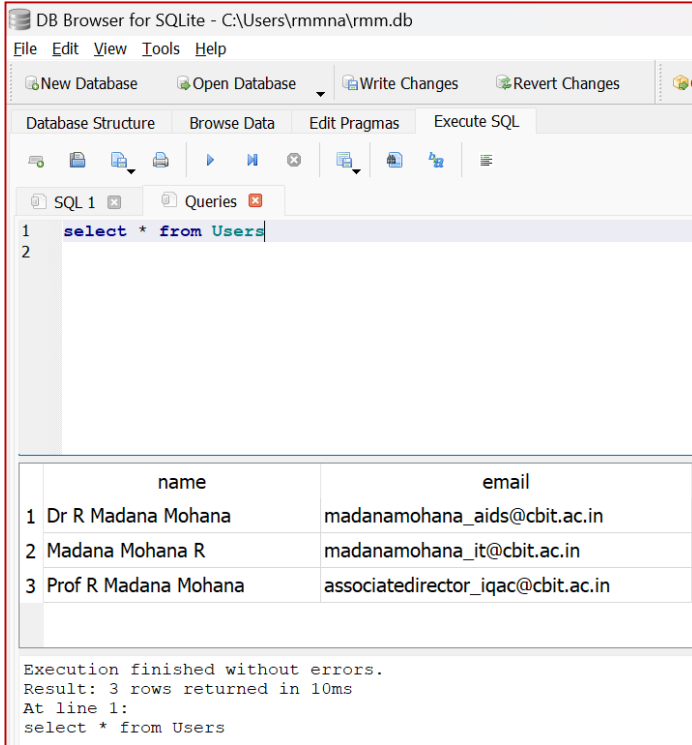
Below the query editor, the execution results are displayed:

```
Execution finished without errors.  
Result: query executed successfully. Took 0ms, 1 rows affected  
At line 1:  
DELETE FROM Users WHERE email='madanamohana_it@cbit.ac.in'
```

SQL – Delete

Output Before and after Delete

```
select * from Users
```



DB Browser for SQLite - C:\Users\rmmna\rmm.db

File Edit View Tools Help

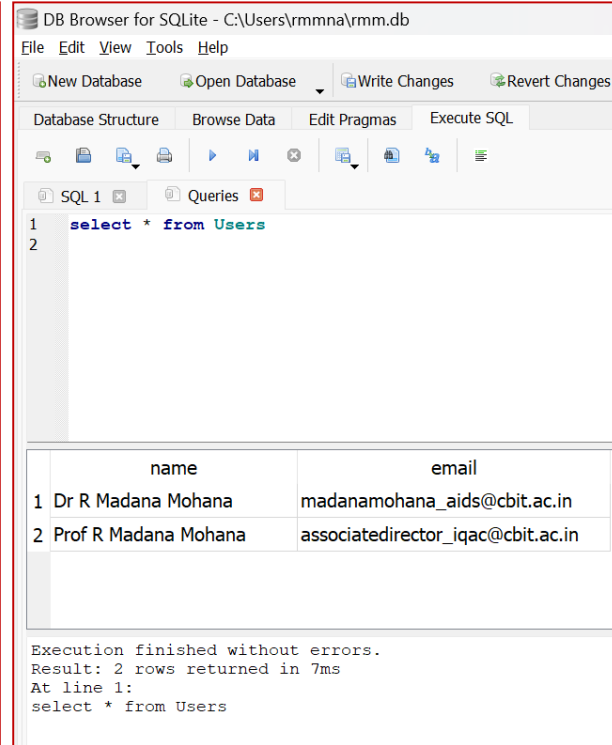
New Database Open Database Write Changes Revert Changes

Database Structure Browse Data Edit Pragmas Execute SQL

```
SQL 1
1 select * from Users
2
```

	name	email
1	Dr R Madana Mohana	madanamohana_aids@cbit.ac.in
2	Madana Mohana R	madanamohana_it@cbit.ac.in
3	Prof R Madana Mohana	associatedirector_iqac@cbit.ac.in

Execution finished without errors.
Result: 3 rows returned in 10ms
At line 1:
select * from Users



DB Browser for SQLite - C:\Users\rmmna\rmm.db

File Edit View Tools Help

New Database Open Database Write Changes Revert Changes

Database Structure Browse Data Edit Pragmas Execute SQL

```
SQL 1
1 select * from Users
2
```

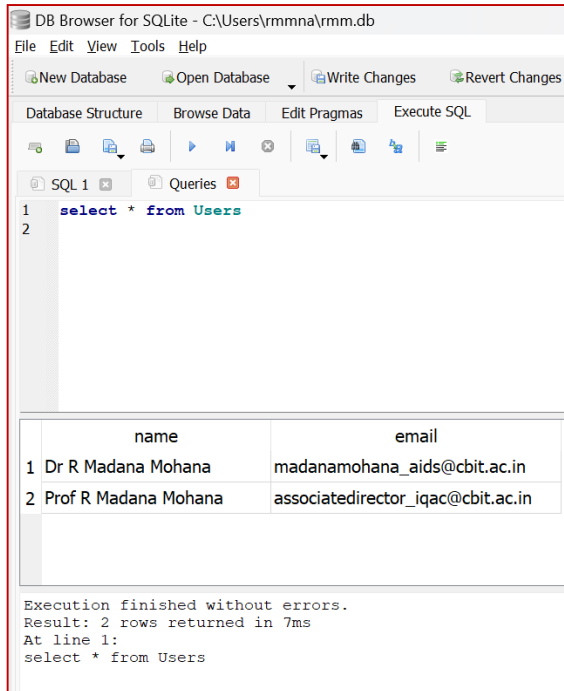
	name	email
1	Dr R Madana Mohana	madanamohana_aids@cbit.ac.in
2	Prof R Madana Mohana	associatedirector_iqac@cbit.ac.in

Execution finished without errors.
Result: 2 rows returned in 7ms
At line 1:
select * from Users

Sorting with ORDER BY

We can add an **ORDER BY** clause to **SELECT** statements to get the results **sorted** in **ascending** or **descending** order.

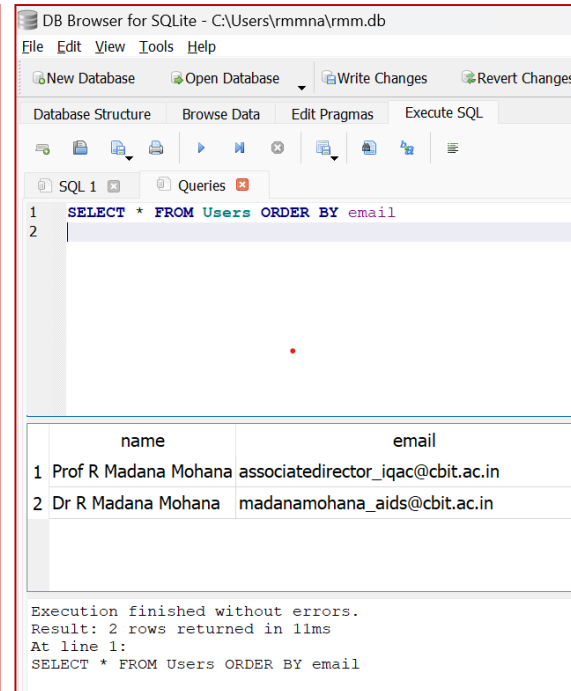
```
SELECT * FROM Users ORDER BY email
```



The screenshot shows the DB Browser for SQLite interface. The SQL editor contains the query: `select * from Users`. The results table below shows two rows of data:

	name	email
1	Dr R Madana Mohana	madanamohana_aids@cbit.ac.in
2	Prof R Madana Mohana	associatedirector_iqac@cbit.ac.in

Execution finished without errors.
Result: 2 rows returned in 7ms
At line 1:
select * from Users



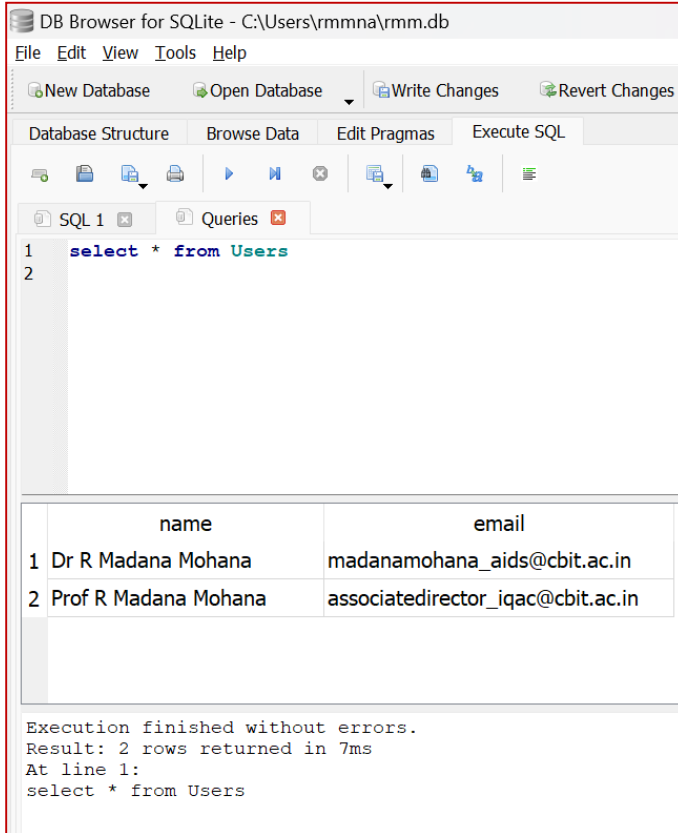
The screenshot shows the DB Browser for SQLite interface. The SQL editor contains the query: `SELECT * FROM Users ORDER BY email`. The results table below shows two rows of data, sorted by email:

	name	email
1	Prof R Madana Mohana	associatedirector_iqac@cbit.ac.in
2	Dr R Madana Mohana	madanamohana_aids@cbit.ac.in

Execution finished without errors.
Result: 2 rows returned in 11ms
At line 1:
SELECT * FROM Users ORDER BY email

Sorting with ORDER BY

SELECT * FROM Users ORDER BY name DESC



DB Browser for SQLite - C:\Users\rmmna\rmm.db

File Edit View Tools Help

New Database Open Database Write Changes Revert Changes

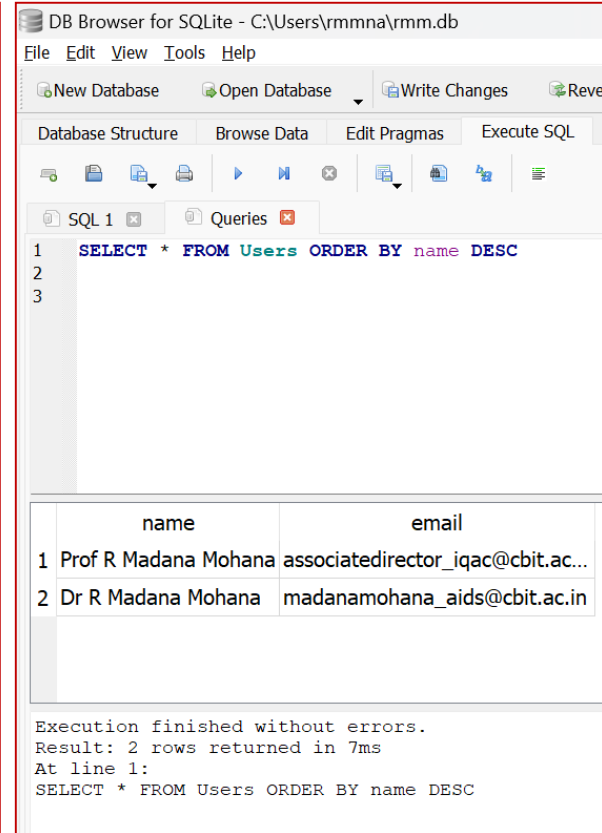
Database Structure Browse Data Edit Pragmas Execute SQL

SQL 1 Queries

```
1 select * from Users
2
```

	name	email
1	Dr R Madana Mohana	madanamohana_aids@cbit.ac.in
2	Prof R Madana Mohana	associatedirector_iqac@cbit.ac.in

Execution finished without errors.
Result: 2 rows returned in 7ms
At line 1:
select * from Users



DB Browser for SQLite - C:\Users\rmmna\rmm.db

File Edit View Tools Help

New Database Open Database Write Changes Revert Changes

Database Structure Browse Data Edit Pragmas Execute SQL

SQL 1 Queries

```
1 SELECT * FROM Users ORDER BY name DESC
2
3
```

	name	email
1	Prof R Madana Mohana	associatedirector_iqac@cbit.ac...
2	Dr R Madana Mohana	madanamohana_aids@cbit.ac.in

Execution finished without errors.
Result: 2 rows returned in 7ms
At line 1:
SELECT * FROM Users ORDER BY name DESC

SQL Summary

Output Before and after Delete

```
CREATE TABLE Users(name VARCHAR(128), email VARCHAR(128))
```

```
INSERT INTO Users (name, email) VALUES ('R Madana Mohana',  
'madanamohana_aids@cbit.ac.in')
```

```
SELECT * FROM Users
```

```
SELECT * FROM Users WHERE email='madanamohana_it@cbit.ac.in'
```

```
UPDATE Users SET name='Dr R Madana Mohana' WHERE  
email='madanamohana_aids@cbit.ac.in'
```

```
DELETE FROM Users WHERE email='madanamohana_it@cbit.ac.in'
```

```
SELECT * FROM Users ORDER BY email
```

```
SELECT * FROM Users ORDER BY name DESC
```

Object Oriented Programming (Using Python)

Single Table CRUD
(Create, Read, Update, and Delete)

Python Demo-1

Single Table CRUD – Python Demo

CREATE: `sqlite_create.py`

sqlite_create.py - C:\Users\rmmna\AppData\Local\Programs\Python\Python310\sqlite_create.py (3.10.0)

File Edit Format Run Options Window Help

```
import sqlite3
conn = sqlite3.connect('oop.db')
print('Opened database successfully');
conn.execute('''CREATE TABLE Users(name VARCHAR(128), email VARCHAR(128))
''')
print('Table created successfully')
conn.close()
```

DB Browser for SQLite - C:\Users\rmmna\AppData\Local\Programs\Python\Python310\oop.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 Pragma Execute SQL

Create Table Create Index Modify Table Delete Table Print

Name	Type	Schema
Tables (2)		
Users		CREATE TABLE Users(name VARCHAR(128), email VARCHAR(128))
name	VARCHAR(128)	"name" VARCHAR(128)
email	VARCHAR(128)	"email" VARCHAR(128)

Single Table CRUD – Python Demo

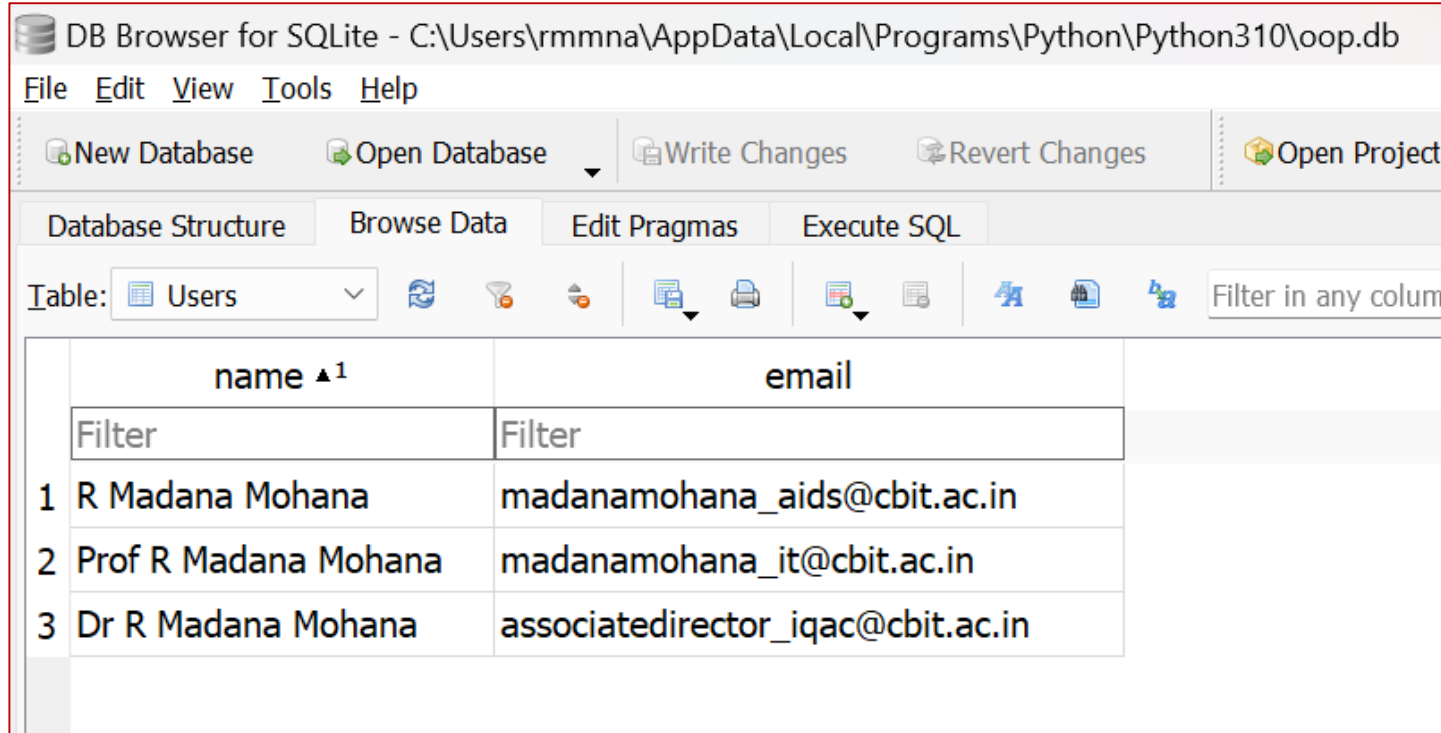
INSERT: `sqlite_insert.py`

```
sqlite_insert.py - C:\Users\rmmna\AppData\Local\Programs\Python\Python310\sqlite_insert.py (3.10.0)
File Edit Format Run Options Window Help
import sqlite3
conn = sqlite3.connect('oop.db')
print('Opened database successfully');
conn.execute("INSERT INTO Users (name, email) VALUES ('R Madana Mohana', 'madanamohana_aids@cbit.ac.in')")
conn.execute("INSERT INTO Users (name, email) VALUES ('Prof R Madana Mohana', 'madanamohana_it@cbit.ac.in')")
conn.execute("INSERT INTO Users (name, email) VALUES ('Dr R Madana Mohana', 'associatedirector_iqac@cbit.ac.in')")
conn.commit()
print('Records Inserted successfully')
conn.close()
```

```
IDLE Shell 3.10.0
File Edit Shell Debug Options Window Help
Python 3.10.0 (tags/v3.10.0:b494f59, Oct 4 2021, 19:00:18) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:/Users/rmmna/AppData/Local/Programs/Python/Python310/sqlite_insert.py
Opened database successfully
Records Inserted successfully
>>>
```

Single Table CRUD – Python Demo

INSERT: `sqlite_insert.py`



The screenshot shows the DB Browser for SQLite interface. The title bar indicates the database file is located at `C:\Users\rmmna\AppData\Local\Programs\Python\Python310\oop.db`. The menu bar includes File, Edit, View, Tools, and Help. The toolbar contains buttons for New Database, Open Database, Write Changes, Revert Changes, and Open Project. The main window has tabs for Database Structure, Browse Data, Edit Pragmas, and Execute SQL. The 'Table:' dropdown is set to 'Users'. The table view shows three columns: 'name', 'email', and an empty column. The data rows are as follows:

	name ▲ ¹	email	
	Filter	Filter	
1	R Madana Mohana	madanamohana_aids@cbit.ac.in	
2	Prof R Madana Mohana	madanamohana_it@cbit.ac.in	
3	Dr R Madana Mohana	associatedirector_iqac@cbit.ac.in	

Single Table CRUD – Python Demo

SELECT (Retrieve): `sqlite_select.py`

```
sqlite_select.py - C:/Users/rmmna/AppData/Local/Programs/Python/Python310/sqlite_select.py (3.10.0)
File Edit Format Run Options Window Help
import sqlite3
conn = sqlite3.connect('oop.db')
print('Opened database successfully');
cursor=conn.execute("SELECT * from Users")
for row in cursor:
    print("Name = ", row[0])
    print("E-mail = ", row[1], "\n")
print('Records Retrieved successfully')
conn.close()
```


Single Table CRUD – Python Demo

SELECT (Retrieve): `sqlite_select.py`

```
>>> = RESTART: C:/Users/rmmna/AppData/Local/Programs/Python/Python310/sqlite_select.py
Opened database successfully
Name = R Madana Mohana
E-mail = madanamohana_aids@cbit.ac.in

Name = Prof R Madana Mohana
E-mail = madanamohana_it@cbit.ac.in

Name = Dr R Madana Mohana
E-mail = associatedirector_iqac@cbit.ac.in

Records Retrieved successfully
>>> |
```

Single Table CRUD – Python Demo

UPDATE: `sqlite_update.py`

```
sqlite_update.py - C:/Users/rmmna/AppData/Local/Programs/Python/Python310/sqlite_update.py (3.10.0)
File Edit Format Run Options Window Help
import sqlite3
conn = sqlite3.connect('oop.db')
print('Opened database successfully');
cursor=conn.execute("UPDATE Users SET name='Dr R. Madana Mohana' WHERE email='madanamohana_aids@cbit.ac.in'")
conn.commit()
print("Total number of rows updated:", conn.total_changes)
cursor=conn.execute("SELECT * from Users")
for row in cursor:
    print("Name = ", row[0])
    print("E-mail = ", row[1], "\n")
print('Records Updated successfully')
conn.close()
```

Single Table CRUD – Python Demo

UPDATE: `sqlite_update.py`

```
IDLE Shell 3.10.0
File Edit Shell Debug Options Window Help
Python 3.10.0 (tags/v3.10.0:b494f59, Oct 4 2021, 19:00:18) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:/Users/rmmna/AppData/Local/Programs/Python/Python310/sqlite_update.py
Opened database successfully
Total number of rows updated: 1
Name = Dr R. Madana Mohana
E-mail = madanamohana_aids@cbit.ac.in

Name = Prof R Madana Mohana
E-mail = madanamohana_it@cbit.ac.in

Name = Dr R Madana Mohana
E-mail = associatedirector_iqac@cbit.ac.in

Records Updated successfully
>>> |
```

Single Table CRUD – Python Demo

UPDATE: [sqlite_update.py](#)

DB Browser for SQLite - C:\Users\rmmna\AppData\Local\Programs\Python\Python38\Scripts\sqlite3.exe

File Edit View Tools Help

New Database Open Database Write Changes Revert Changes

Database Structure Browse Data Edit Pragas Execute SQL

Table: Users

	name ▲ ¹	email
	Filter	Filter
1	R Madana Mohana	madanamohana_aids@cbit.ac.in
2	Prof R Madana Mohana	madanamohana_it@cbit.ac.in
3	Dr R Madana Mohana	associatedirector_iqac@cbit.ac.in

DB Browser for SQLite - C:\Users\rmmna\AppData\Local\Programs\Python\Python38\Scripts\sqlite3.exe

File Edit View Tools Help

New Database Open Database Write Changes Revert Changes

Database Structure Browse Data Edit Pragas Execute SQL

Table: Users

	name ▼ ¹	email
	Filter	Filter
1	Dr R Madana Mohana	associatedirector_iqac@cbit.ac.in
2	Dr R. Madana Mohana	madanamohana_aids@cbit.ac.in
3	Prof R Madana Mohana	madanamohana_it@cbit.ac.in

Single Table CRUD – Python Demo

DELETE: `sqlite_delete.py`

sqlite_delete.py - C:/Users/rmmna/AppData/Local/Programs/Python/Python310/sqlite_delete.py (3.10.0)

File Edit Format Run Options Window Help

```
import sqlite3
conn = sqlite3.connect('oop.db')
print('Opened database successfully');
cursor=conn.execute("DELETE FROM Users WHERE email='madanamohana_it@cbit.ac.in'")
conn.commit()
print("Total number of rows deleted:", conn.total_changes)
cursor=conn.execute("SELECT * from Users")
for row in cursor:
    print("Name = ", row[0])
    print("E-mail = ", row[1], "\n")
print('Records Deleted successfully')
conn.close()
```

Single Table CRUD – Python Demo

DELETE: `sqlite_delete.py`

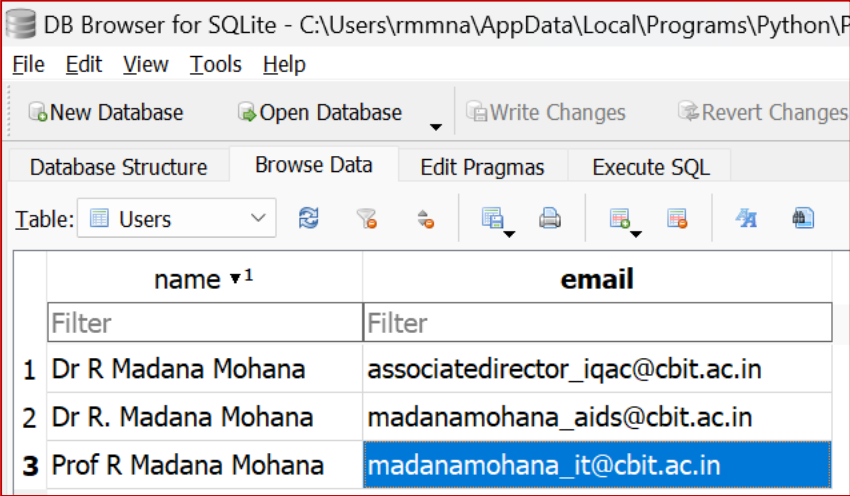
```
IDLE Shell 3.10.0
File Edit Shell Debug Options Window Help
Python 3.10.0 (tags/v3.10.0:b494f59, Oct 4 2021, 19:00:18) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:/Users/rmmna/AppData/Local/Programs/Python/Python310/sqlite_delete.py
Opened database successfully
Total number of rows deleted: 1
Name = Dr R. Madana Mohana
E-mail = madanamohana_aids@cbit.ac.in

Name = Dr R Madana Mohana
E-mail = associatedirector_iqac@cbit.ac.in

Records Deleted successfully
>>>
```

Single Table CRUD – Python Demo

DELETE: `sqlite_delete.py`



DB Browser for SQLite - C:\Users\rmmna\AppData\Local\Programs\Python\F

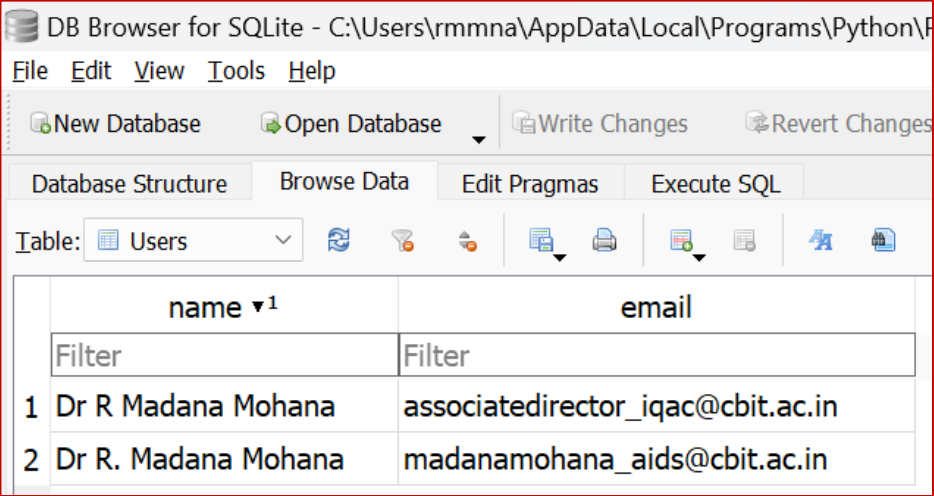
File Edit View Tools Help

New Database Open Database Write Changes Revert Changes

Database Structure Browse Data Edit Pragma Execute SQL

Table: Users

	name ▼ ¹	email
	Filter	Filter
1	Dr R Madana Mohana	associatedirector_iqac@cbit.ac.in
2	Dr R. Madana Mohana	madanamohana_aids@cbit.ac.in
3	Prof R Madana Mohana	madanamohana_it@cbit.ac.in



DB Browser for SQLite - C:\Users\rmmna\AppData\Local\Programs\Python\F

File Edit View Tools Help

New Database Open Database Write Changes Revert Changes

Database Structure Browse Data Edit Pragma Execute SQL

Table: Users

	name ▼ ¹	email
	Filter	Filter
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2	Dr R. Madana Mohana	madanamohana_aids@cbit.ac.in