DATABASE

Activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
  xmlns:app="http://schemas.android.com/apk/res-auto"
  xmlns:tools="http://schemas.android.com/tools"
  android:layout width="match parent"
  android:layout height="match parent"
  android:orientation="vertical"
  tools:context=".MainActivity">
  <TextView
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:text="Registration"
    app:layout constraintBottom toBottomOf="parent"
    app:layout constraintEnd toEndOf="parent"
    app:layout constraintStart toStartOf="parent"
    app:layout constraintTop toTopOf="parent" />
  <TextView
    android:layout width="wrap content"
    android:layout_height="wrap_content"
    android:text="id" />
  <EditText
    android:id="@+id/ed1"
    android:layout width="157dp"
    android:layout height="wrap content" />
  <TextView
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:text="name" />
  <EditText
    android:id="@+id/ed2"
    android:layout width="152dp"
    android:layout height="wrap content" />
```

<TextView

```
android:layout width="wrap content"
    android:layout height="wrap content"
    android:text="Address" />
  <EditText
    android:id="@+id/ed3"
    android:layout width="160dp"
    android:layout height="56dp" />
  <Button
    android:id="@+id/bt1"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:text="insert"
    android:onClick="insert"
    tools:ignore="OnClick"
    />
  <Button
    android:id="@+id/bt2"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:text="edit"
    android:onClick="edit"
    tools:ignore="OnClick"
/>
  <Button
    android:id="@+id/bt3"
    android:layout_width="wrap content"
    android:layout height="wrap content"
    android:text="delete"
    android:onClick="delete"
    tools:ignore="OnClick"
/>
  <Button
    android:id="@+id/bt4"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:text="read"
    android:onClick="read"
    tools:ignore="OnClick"
/>
```

Mainactivity.java

```
package com.example.database;
import androidx.appcompat.app.AppCompatActivity;
import android.content.ContentValues;
import android.database.Cursor;
import android.database.sqlite.SQLiteDatabase;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;
public class MainActivity extends AppCompatActivity {
EditText id,name,address;
DBhelper dbhelper = new DBhelper(this);
SQLiteDatabase sqdb;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity main);
    sqdb = dbhelper.getWritableDatabase();
    sqdb = dbhelper.getReadableDatabase();
    id=findViewById(R.id.ed1);
    name=findViewById(R.id.ed2);
    address=findViewById(R.id.ed3);
  }
  public void insert(View view) {
    String std id =id.getText().toString();
    String student name =name.getText().toString();
    String student address =address.getText().toString();
    ContentValues cv = new ContentValues();
    cv.put("id", std id);
    cv.put("std name", student name);
    cv.put("sta address", student address);
```

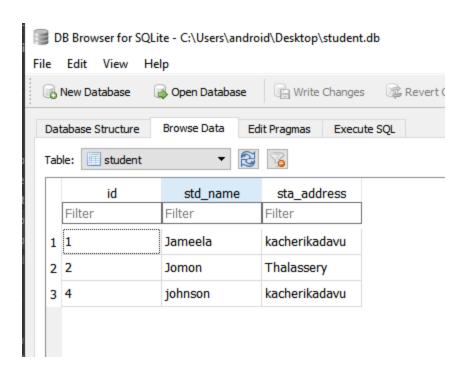
```
sqdb.insert("student", null, cv);
    Toast.makeText(this, "Inserted", Toast.LENGTH SHORT).show();
  }
  public void edit(View view) {
     String std id =id.getText().toString();
    String student name =name.getText().toString();
    String student address =address.getText().toString();
    ContentValues cv = new ContentValues();
    cv.put("id", std id);
    cv.put("std name", student name);
    cv.put("sta address", student address);
    sqdb.update("student",cv,"id="+std id,null);
    Toast.makeText(this, "Updated", Toast.LENGTH SHORT).show();
  }
  public void delete(View view) {
    String std id =id.getText().toString();
    sqdb.delete("student", "id=" + std id, null);
    Toast.makeText(this, "Deleted", Toast.LENGTH SHORT).show();
    }
  public void read(View view) {
    StringBuffer buffer = new StringBuffer();
    Cursor cr =sqdb.rawQuery("select * from student",null);
    while(cr.moveToNext())
    {
       buffer.append("RollNo:"+cr.getString(0)+"\t");
       buffer.append("Name:"+cr.getString(1)+"\t");
       buffer.append("Address:"+cr.getString(2)+"\t");
    }
     Toast.makeText(this, buffer.toString(), Toast.LENGTH LONG).show();
  }
}
```

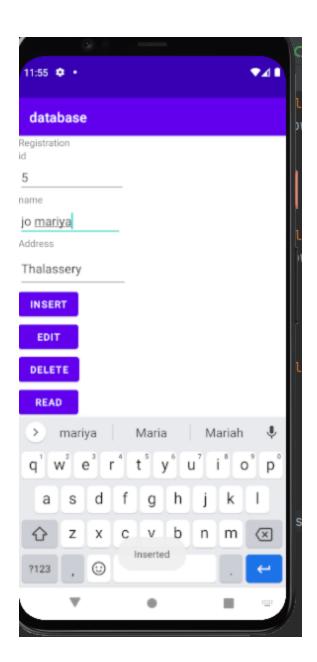
DBhelper.java

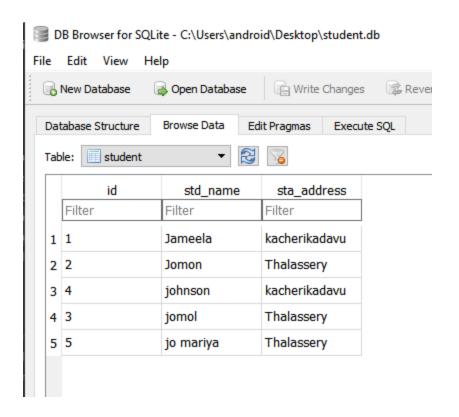
package com.example.database;

```
import android.content.Context;
import android.database.sqlite.SQLiteDatabase;
import android.database.sqlite.SQLiteOpenHelper;
import androidx.annotation.Nullable;
public class DBhelper extends SQLiteOpenHelper {
  public DBhelper(@Nullable Context context) {
    super(context, "student.db", null, 1);
  }
  @Override
  public void onCreate(SQLiteDatabase sqLiteDatabase) {
    sqLiteDatabase.execSQL("create table student(id int primary key,std name
varchar(20),sta_address varchar(20))");
  }
  @Override
  public void onUpgrade(SQLiteDatabase sqLiteDatabase, int i, int i1) {
  }
}
```

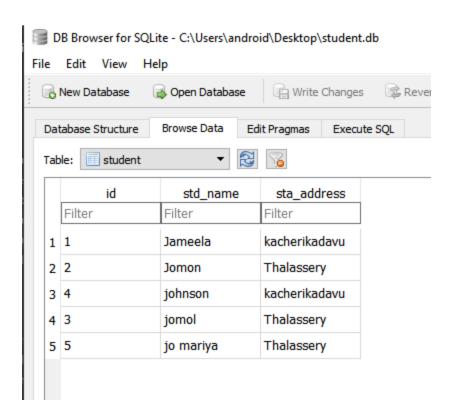
OUTPUT INSERT

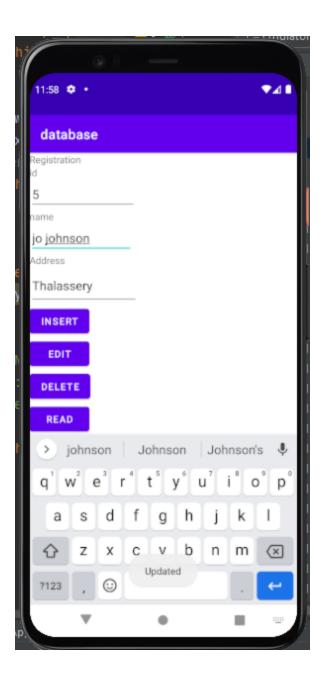


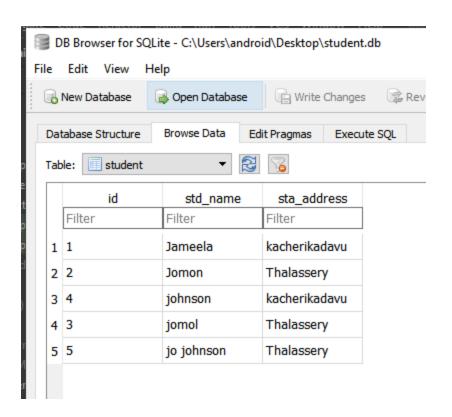




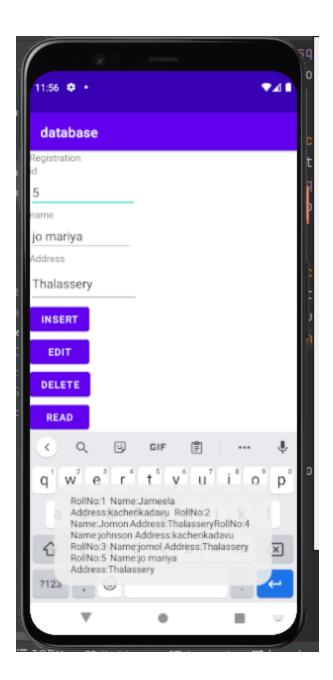
EDIT







READ



DELETE

