DATABASE

Activity\_main.xml

*<?***xml version="1.0" encoding="utf-8"***?>*<**androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 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"  
 tools:context=".MainActivity"**>  
  
 <**LinearLayout  
 android:layout\_width="408dp"  
 android:layout\_height="523dp"  
 android:orientation="vertical"  
 tools:layout\_editor\_absoluteX="1dp"  
 tools:layout\_editor\_absoluteY="1dp"**>  
  
 <**TextView  
 android:id="@+id/header"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="SQL LITE"  
 android:textAlignment="center"  
 android:textColor="@color/design\_default\_color\_secondary"  
 android:textSize="40dp"** />  
  
 <**EditText  
 android:id="@+id/rollno"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:inputType="textPersonName"  
 android:hint="Rollno"  
 android:textSize="30dp"** />  
  
 <**EditText  
 android:id="@+id/name"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:inputType="textPersonName"  
 android:hint="Name"  
 android:textSize="30dp"** />  
  
 <**EditText  
 android:id="@+id/email"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:inputType="textPersonName"  
 android:hint="Email"  
 android:textSize="30dp"** />  
  
 <**Button  
 android:id="@+id/bt1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Insert"  
 android:textSize="30dp"** />  
  
 <**Button  
 android:id="@+id/bt2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="View"  
 android:textSize="30dp"** />  
 </**LinearLayout**>  
</**androidx.constraintlayout.widget.ConstraintLayout**>

Mainactivity.java

**package** com.example.myapplication;  
  
**import** androidx.appcompat.app.AppCompatActivity;  
  
**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 {  
 Button **bt1**, **bt2**;  
 EditText **rollno**, **name**, **email**;  
  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
 **bt1** = findViewById(R.id.***bt1***);  
 **bt2** = findViewById(R.id.***bt2***);  
 **rollno** = findViewById(R.id.***rollno***);  
 **name** = findViewById(R.id.***name***);  
 **email** = findViewById(R.id.***email***);  
 **bt1**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
  
 Integer rollno1 = Integer.*parseInt*(**rollno**.getText().toString());  
 String name1 = **name**.getText().toString();  
 String email1 = **email**.getText().toString();  
 Database conn = **new** Database(getApplicationContext());  
 **boolean** insert\_result = conn.insertuserdata(rollno1, name1, email1);  
 **if** (insert\_result == **true**) {  
 Toast.*makeText*(MainActivity.**this**, **"insert successfully"**, Toast.***LENGTH\_SHORT***).show();  
 } **else** {  
 Toast.*makeText*(MainActivity.**this**, **"insert failed"**, Toast.***LENGTH\_SHORT***).show();  
 }  
 }  
 });  
 }  
}

Database.java

**package** com.example.myapplication;  
  
**import** android.content.ContentValues;  
**import** android.content.Context;  
**import** android.database.sqlite.SQLiteDatabase;  
**import** android.database.sqlite.SQLiteOpenHelper;  
  
**import** androidx.annotation.Nullable;  
  
**public class** Database **extends** SQLiteOpenHelper {  
 **public** Database(@Nullable Context context) {  
 **super**(context,**"mydb"**,**null**,1);  
 }  
  
 @Override  
 **public void** onCreate(SQLiteDatabase db) {  
 db.execSQL(**"CREATE TABLE usertable(rollno INTEGER PRIMARY KEY ,name TEXT,email TEXT)"**);  
  
  
 }  
  
 @Override  
 **public void** onUpgrade(SQLiteDatabase db, **int** oldVersion, **int** newVersion) {  
 db.execSQL(**"DROP TABLE usertable"**);  
  
 }  
 **public boolean** insertuserdata(**int** user\_rollno,String user\_name,String user\_email){  
 SQLiteDatabase db=**this**.getWritableDatabase();  
 ContentValues val=**new** ContentValues();  
 val.put(**"rollno"**,user\_rollno);  
 val.put(**"name"**,user\_name);  
 val.put(**"email"**,user\_email);  
 **long** result=db.insert(**"usertable"**,**null**,val);  
 **if**(result>=0){  
 **return true**;  
 }  
 **else**{  
 **return false**;  
 }  
  
 }  
}