## Activity Main.xml

<?xml version="1.0" encoding="utf-8"?>

<android.support.constraint.ConstraintLayout xmlns:android="[http://schemas.android.com/apk/res/android"](http://schemas.android.com/apk/res/android) xmlns:app="[http://schemas.android.com/apk/res-auto"](http://schemas.android.com/apk/res-auto) xmlns:tools="[http://schemas.android.com/tools"](http://schemas.android.com/tools) android:layout\_width="match\_parent" android:layout\_height="match\_parent" tools:context=".MainActivity">

<EditText android:id="@+id/ed1"

android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:layout\_marginStart="8dp" android:layout\_marginLeft="8dp" android:layout\_marginTop="8dp" android:ems="10" android:hint="name"

android:inputType="textPersonName" app:layout\_constraintStart\_toStartOf="parent" app:layout\_constraintTop\_toTopOf="parent" />

<EditText android:id="@+id/ed2"

android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:layout\_marginStart="8dp" android:layout\_marginLeft="8dp" android:layout\_marginTop="36dp" android:ems="10" android:hint="Surname" android:inputType="textPersonName"

app:layout\_constraintStart\_toStartOf="parent" app:layout\_constraintTop\_toBottomOf="@+id/ed1" />

<EditText android:id="@+id/ed3"

android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:layout\_marginStart="8dp" android:layout\_marginLeft="8dp" android:layout\_marginTop="28dp" android:ems="10" android:hint="marks" android:inputType="textPersonName"

app:layout\_constraintStart\_toStartOf="parent" app:layout\_constraintTop\_toBottomOf="@+id/ed2" />

<Button android:id="@+id/button"

android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:layout\_marginTop="19dp" android:onClick="SaveDat" android:text="Insert"

app:layout\_constraintStart\_toStartOf="parent" app:layout\_constraintTop\_toBottomOf="@+id/ed3" tools:ignore="OnClick" />

<Button android:id="@+id/button2"

android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:layout\_marginStart="96dp" android:layout\_marginLeft="96dp" android:layout\_marginTop="19dp" android:onClick="read" android:text="Read"

app:layout\_constraintStart\_toStartOf="parent" app:layout\_constraintTop\_toBottomOf="@+id/ed3" tools:ignore="OnClick" />

<TextView android:id="@+id/textView" android:layout\_width="match\_parent" android:layout\_height="207dp" android:layout\_marginTop="20dp" android:hint="data"

app:layout\_constraintTop\_toBottomOf="@+id/button" />

<Button android:id="@+id/button3"

android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:layout\_marginStart="192dp" android:layout\_marginLeft="192dp" android:layout\_marginTop="19dp" android:onClick="update" android:text="update" app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toBottomOf="@+id/ed3" tools:ignore="OnClick" />

<Button android:id="@+id/button4"

android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:layout\_marginStart="288dp" android:layout\_marginLeft="288dp" android:layout\_marginTop="19dp" android:onClick="delete" android:text="delete" app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toBottomOf="@+id/ed3" tools:ignore="OnClick" />

</android.support.constraint.ConstraintLayout>

## Main\_Menu.Xml

package com.example.sjcet.databasepgm; import android.content.ContentValues; import android.database.Cursor;

import android.database.sqlite.SQLiteDatabase; import android.support.v7.app.AppCompatActivity; import android.os.Bundle;

import android.view.View; import android.widget.EditText; import android.widget.TextView; import android.widget.Toast;

public class MainActivity extends AppCompatActivity { EditText Name,Mark,Surname;

TextView DataV;

MyDatabase database = new MyDatabase(this) ; @Override

protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main); Name = findViewById(R.id.ed1); Surname = findViewById(R.id.ed2); Mark = findViewById(R.id.ed3);

DataV = findViewById(R.id.textView);

}

public void SaveDat(View view) {

String UserVal = Name.getText().toString();

String SurnameVal = Surname.getText().toString();

Integer PassVal = Integer.parseInt(Mark.getText().toString()); Boolean result = database.insertdata(UserVal, PassVal,SurnameVal); if (result == true) {

Toast.makeText(getApplicationContext(), "Data inserted Sucessfully", Toast.LENGTH\_SHORT).show();

} else {

Toast.makeText(getApplicationContext(), "Data inserted failed", Toast.LENGTH\_SHORT).show();

}

}

public void read(View view) { Cursor res = database.getAllData();

StringBuffer stringBuffer = new StringBuffer(); if (res != null && res.getCount() > 0) {

while (res.moveToNext()) { stringBuffer.append("Id: " + res.getString(0) + "\n");

stringBuffer.append("Name: " + res.getString(1) + "\n"); stringBuffer.append("Surname: " + res.getString(2) + "\n"); stringBuffer.append("marks: " + res.getString(3) + "\n");

}

DataV .setText(stringBuffer.toString());

} else {

Toast.makeText(getApplicationContext(), "Data Retrieved Successfully", Toast.LENGTH\_SHORT).show();

}

Toast.makeText(getApplicationContext(), "Data Retrieved Successfully", Toast.LENGTH\_SHORT).show();

}

public void update(View view) {

String UserVal = Name.getText().toString();

String SurnameVal = Surname.getText().toString();

Integer PassVal = Integer.parseInt(Mark.getText().toString());

Boolean result = database.updateData(UserVal, PassVal, SurnameVal); if (result==true){

Toast.makeText(getApplicationContext(), "Data updated Successfully", Toast.LENGTH\_SHORT).show();

}

else {

Toast.makeText(getApplicationContext(), "No Rows Affected", Toast.LENGTH\_SHORT).show();

}

}

public void delete(View view) {

String UserVal = Name.getText().toString(); int result=database.deletedata(UserVal);

Toast.makeText(getApplicationContext(), "Rows Affected", Toast.LENGTH\_SHORT).show();

}

}

## MyDatabase.Xml

package com.example.sjcet.databasepgm; import android.content.ContentValues; import android.content.Context;

import android.database.Cursor;

import android.database.sqlite.SQLiteDatabase; import android.database.sqlite.SQLiteOpenHelper; import android.view.View;

public class MyDatabase extends SQLiteOpenHelper { public MyDatabase(Context context) {

super(context, "Login.db", null, 1);

}

@Override

public void onCreate(SQLiteDatabase db) {

db.execSQL("Create table USERS(ID INTEGER PRIMARY KEY AUTOINCREMENT,NAME text,SURNAME text,MARKS INTEGER)");

}

@Override

public void onUpgrade(SQLiteDatabase db, int oldVersion, int newVersion) { db.execSQL("DROP TABLE IF EXISTS USERS");

}

public Cursor getAllData() {

SQLiteDatabase db=this.getWritableDatabase();

Cursor res = db.rawQuery("Select \* from USERS",null); return res;

}

public Boolean insertdata(String userVal, Integer passVal, String surnameVal) { SQLiteDatabase db = this.getWritableDatabase();

ContentValues contentValues = new ContentValues(); contentValues.put("NAME", userVal); contentValues.put("SURNAME", surnameVal); contentValues.put("MARKS", passVal);

long result = db.insert("USERS", null, contentValues); db.close();

if (result == -1) { return false;

} else { return true;

}

}

public int deletedata(String userVal) { SQLiteDatabase db=this.getWritableDatabase();

int i =db.delete("USERS","NAME=?",new String[]{userVal}); return i;

}

public Boolean updateData(String userVal, Integer passVal, String surnameVal) { SQLiteDatabase db=this.getWritableDatabase();

ContentValues contentValues=new ContentValues(); contentValues.put("NAME",userVal); contentValues.put("SURNAME",surnameVal); contentValues.put("MARKS",passVal);

int result=db.update("USERS",contentValues,"NAME=?",new String[]{userVal}); if (result>0) {

return true;

}

else

{

return false;

}

}

}

## OUTPUT

