**PROGRAM:**

**Main\_Activity:**

package com.example.exp5;

import android.os.Bundle;

import android.app.Activity;

import android.app.AlertDialog.Builder;

import android.database.Cursor;

import android.database.sqlite.SQLiteDatabase;

import android.view.Menu;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

import android.widget.Toast;

public class MainActivity extends Activity {

SQLiteDatabase db;

Button b1,b2,b3,b4,b5;

EditText e1,e2,e3;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

b1 = (Button)findViewById(R.id.button1);

b2 = (Button)findViewById(R.id.button2);

b3 = (Button)findViewById(R.id.button3);

b4 = (Button)findViewById(R.id.button4);

b5 = (Button)findViewById(R.id.button5);

e1 = (EditText)findViewById(R.id.editText1);

e2 = (EditText)findViewById(R.id.editText2);

e3 = (EditText)findViewById(R.id.editText3);

}

public void INSERT(View view){

db = openOrCreateDatabase("StudentDB",MODE\_PRIVATE,null);

db.execSQL("Create table if not exists student(rollno varchar,name varchar,dept varchar);");

if(e1.getText().toString().trim().length() == 0 || e2.getText().toString().trim().length() == 0 || e3.getText().toString().trim().length() == 0 ){

Toast.makeText(getApplicationContext(),"Error Please Enter values",Toast.LENGTH\_LONG).show();

}

else{

db.execSQL("Insert into student values ('"+e1.getText().toString()+"','"+e2.getText().toString()+"','"+e3.getText().toString()+"');");

Toast.makeText(getApplicationContext(),"Values successfully added",Toast.LENGTH\_LONG).show();

}

}

public void DELETE(View view){

db = openOrCreateDatabase("StudentDB",MODE\_PRIVATE,null);

db.execSQL("Create table if not exists student(rollno varchar,name varchar,dept varchar);");

if(e1.getText().toString().trim().length() == 0 ){

Toast.makeText(getApplicationContext(),"Error Please Enter rollno",Toast.LENGTH\_LONG).show();

}

else{

db.execSQL("Delete from student where rollno = '"+e1.getText().toString()+"';");

Toast.makeText(getApplicationContext(),"Values successfully deleted",Toast.LENGTH\_LONG).show();

}

}

public void UPDATE(View view){

db = openOrCreateDatabase("StudentDB",MODE\_PRIVATE,null);

db.execSQL("Create table if not exists student(rollno varchar,name varchar,dept varchar);");

if(e1.getText().toString().trim().length() == 0 || e2.getText().toString().trim().length() == 0){

Toast.makeText(getApplicationContext(),"Error Please Enter rollno and name",Toast.LENGTH\_LONG).show();

}

else{

db.execSQL("Update student set name = '"+e2.getText().toString()+"' where rollno = '"+e1.getText().toString()+"';");

Toast.makeText(getApplicationContext(),"Values successfully updated",Toast.LENGTH\_LONG).show();

}

}

public void VIEW(View view){

db = openOrCreateDatabase("StudentDB",MODE\_PRIVATE,null);

db.execSQL("Create table if not exists student(rollno varchar,name varchar,dept varchar);");

Cursor c = db.rawQuery("Select \* from student where rollno = '"+e1.getText().toString()+"';", null);

if (c.getCount() == 0) {

showMessage("Error", "No records found");

return;

}

StringBuffer buffer = new StringBuffer();

while (c.moveToNext()) {

buffer.append("Rollno: " + c.getString(0) + "\n");

buffer.append("Name: " + c.getString(1) + "\n");

buffer.append("DEPT: " + c.getString(2) + "\n\n");

}

showMessage("Student Details", buffer.toString());

}

public void VIEW\_ALL(View view){

db = openOrCreateDatabase("StudentDB",MODE\_PRIVATE,null);

db.execSQL("Create table if not exists student(rollno varchar,name varchar,dept varchar);");

Cursor c = db.rawQuery("SELECT \* FROM student", null);

if (c.getCount() == 0) {

showMessage("Error", "No records found");

return;

}

StringBuffer buffer = new StringBuffer();

while (c.moveToNext()) {

buffer.append("Rollno: " + c.getString(0) + "\n");

buffer.append("Name: " + c.getString(1) + "\n");

buffer.append("DEPT: " + c.getString(2) + "\n\n");

}

showMessage("Student Details", buffer.toString());

}

public void showMessage(String title, String message) {

Builder builder = new Builder(this);

builder.setCancelable(true);

builder.setTitle(title);

builder.setMessage(message);

builder.show();

}

@Override

public boolean onCreateOptionsMenu(Menu menu) {

// Inflate the menu; this adds items to the action bar if it is present.

getMenuInflater().inflate(R.menu.main, menu);

return true;

}

}

Activity\_Main:

<RelativeLayout xmlns:android=*"http://schemas.android.com/apk/res/android"*

xmlns:tools=*"http://schemas.android.com/tools"*

android:layout\_width=*"match\_parent"*

android:layout\_height=*"match\_parent"*

android:paddingBottom=*"@dimen/activity\_vertical\_margin"*

android:paddingLeft=*"@dimen/activity\_horizontal\_margin"*

android:paddingRight=*"@dimen/activity\_horizontal\_margin"*

android:paddingTop=*"@dimen/activity\_vertical\_margin"*

tools:context=*".MainActivity"* >

<TextView

android:id=*"@+id/textView1"*

android:layout\_width=*"wrap\_content"*

android:layout\_height=*"wrap\_content"*

android:layout\_alignParentTop=*"true"*

android:layout\_centerHorizontal=*"true"*

android:layout\_marginTop=*"26dp"*

android:text=*"Database : Nirmal Kumar"*

android:textAppearance=*"?android:attr/textAppearanceMedium"* />

<TextView

android:id=*"@+id/textView2"*

android:layout\_width=*"wrap\_content"*

android:layout\_height=*"wrap\_content"*

android:layout\_alignParentLeft=*"true"*

android:layout\_below=*"@+id/textView1"*

android:layout\_marginLeft=*"22dp"*

android:layout\_marginTop=*"40dp"*

android:text=*"Roll No"*

android:textAppearance=*"?android:attr/textAppearanceMedium"* />

<TextView

android:id=*"@+id/textView3"*

android:layout\_width=*"wrap\_content"*

android:layout\_height=*"wrap\_content"*

android:layout\_alignLeft=*"@+id/textView2"*

android:layout\_below=*"@+id/textView2"*

android:layout\_marginTop=*"26dp"*

android:text=*"Name"*

android:textAppearance=*"?android:attr/textAppearanceMedium"* />

<TextView

android:id=*"@+id/textView4"*

android:layout\_width=*"wrap\_content"*

android:layout\_height=*"wrap\_content"*

android:layout\_alignLeft=*"@+id/textView3"*

android:layout\_below=*"@+id/textView3"*

android:layout\_marginTop=*"29dp"*

android:text=*"Dept"*

android:textAppearance=*"?android:attr/textAppearanceMedium"* />

<EditText

android:id=*"@+id/editText1"*

android:layout\_width=*"wrap\_content"*

android:layout\_height=*"wrap\_content"*

android:layout\_alignBaseline=*"@+id/textView3"*

android:layout\_alignBottom=*"@+id/textView3"*

android:layout\_toRightOf=*"@+id/textView2"*

android:ems=*"10"*

android:inputType=*"textPersonName"* />

<EditText

android:id=*"@+id/editText3"*

android:layout\_width=*"wrap\_content"*

android:layout\_height=*"wrap\_content"*

android:layout\_alignBottom=*"@+id/textView4"*

android:layout\_alignLeft=*"@+id/editText1"*

android:ems=*"10"* />

<EditText

android:id=*"@+id/editText2"*

android:layout\_width=*"wrap\_content"*

android:layout\_height=*"wrap\_content"*

android:layout\_alignBaseline=*"@+id/textView2"*

android:layout\_alignBottom=*"@+id/textView2"*

android:layout\_toRightOf=*"@+id/textView2"*

android:ems=*"10"* >

<requestFocus />

</EditText>

<Button

android:id=*"@+id/button1"*

android:layout\_width=*"wrap\_content"*

android:layout\_height=*"wrap\_content"*

android:layout\_alignRight=*"@+id/textView2"*

android:layout\_below=*"@+id/textView4"*

android:layout\_marginTop=*"35dp"*

android:onClick=*"INSERT"*

android:text=*"Insert"* />

<Button

android:id=*"@+id/button5"*

android:layout\_width=*"wrap\_content"*

android:layout\_height=*"wrap\_content"*

android:layout\_below=*"@+id/button1"*

android:layout\_centerHorizontal=*"true"*

android:onClick=*"VIEW\_ALL"*

android:text=*"View All"* />

<Button

android:id=*"@+id/button4"*

android:layout\_width=*"wrap\_content"*

android:layout\_height=*"wrap\_content"*

android:layout\_alignBaseline=*"@+id/button3"*

android:layout\_alignBottom=*"@+id/button3"*

android:layout\_toRightOf=*"@+id/textView1"*

android:onClick=*"VIEW"*

android:text=*"View"* />

<Button

android:id=*"@+id/button2"*

android:layout\_width=*"wrap\_content"*

android:layout\_height=*"wrap\_content"*

android:layout\_alignBaseline=*"@+id/button1"*

android:layout\_alignBottom=*"@+id/button1"*

android:layout\_alignRight=*"@+id/button4"*

android:onClick=*"DELETE"*

android:text=*"Delete"* />

<Button

android:id=*"@+id/button3"*

android:layout\_width=*"wrap\_content"*

android:layout\_height=*"wrap\_content"*

android:layout\_alignLeft=*"@+id/button1"*

android:layout\_alignTop=*"@+id/button5"*

android:layout\_marginTop=*"33dp"*

android:onClick=*"UPDATE"*

android:text=*"Update"* />

</RelativeLayout>







