```
Activity_Main.XML
<?xml version="1.0" encoding="utf-8"?>
<AbsoluteLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
  android:layout_width="match_parent"
  android:layout_height="match_parent">
  <TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_x="50dp"
    android:layout_y="20dp"
    android:text="Student Details"
    android:textSize="30sp" />
  <TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_x="20dp"
    android:layout_y="110dp"
    android:text="Enter Rollno:"
    android:textSize="20sp" />
  <EditText
    android:id="@+id/Rollno"
    android:layout_width="150dp"
    android:layout_height="wrap_content"
    android:layout_x="175dp"
    android:layout_y="100dp"
    android:inputType="number"
    android:textSize="20sp" />
  <TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_x="20dp"
    android:layout_y="160dp"
    android:text="Enter Name:"
```

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<Button
 android:id="@+id/Delete"
 android:layout_width="150dp"
 android:layout_height="wrap_content"
 android:layout_x="200dp"
 android:layout_y="300dp"
 android:text="Delete"
 android:textSize="30dp" />
<Button
 android:id="@+id/Update"
 android:layout_width="150dp"
 android:layout_height="wrap_content"
 android:layout_x="25dp"
 android:layout_y="400dp"
 android:text="Update"
 android:textSize="30dp" />
<Button
 android:id="@+id/View"
 android:layout_width="150dp"
 android:layout_height="wrap_content"
 android:layout_x="200dp"
 android:layout_y="400dp"
 android:text="View"
 android:textSize="30dp" />
<Button
 android:id="@+id/ViewAll"
 android:layout_width="200dp"
 android:layout_height="wrap_content"
 android:layout_x="100dp"
 android:layout_y="500dp"
 android:text="View All"
```

```
android:textSize="30dp" />
</AbsoluteLayout>
ActivityMain.java
package com.example.exno5;
import android.app.Activity;
import android.app.AlertDialog.Builder;
import android.content.Context;
import android.database.Cursor;
import android.database.sqlite.SQLiteDatabase;
import android.os.Bundle;
import android.view.View;
import android.view.View.OnClickListener;
import android.widget.Button;
import android.widget.EditText;
public class MainActivity extends Activity implements OnClickListener
  EditText Rollno, Name, Marks;
  Button Insert, Delete, Update, View, View All;
  SQLiteDatabase db;
  /** Called when the activity is first created. */
  @Override
  public void onCreate(Bundle savedInstanceState)
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    Rollno=(EditText)findViewById(R.id.Rollno);
    Name=(EditText)findViewById(R.id.Name);
    Marks=(EditText)findViewById(R.id.Marks);
    Insert=(Button)findViewById(R.id.Insert);
    Delete=(Button)findViewById(R.id.Delete);
```

Update=(Button)findViewByld(R.id.Update);

```
View=(Button)findViewById(R.id.View);
    ViewAll=(Button)findViewByld(R.id.ViewAll);
    Insert.setOnClickListener(this);
    Delete.setOnClickListener(this);
    Update.setOnClickListener(this);
    View.setOnClickListener(this);
    ViewAll.setOnClickListener(this);
    // Creating database and table
    db=openOrCreateDatabase("StudentDB", Context.MODE_PRIVATE, null);
    db.execSQL("CREATE TABLE IF NOT EXISTS student(rollno VARCHAR,name VARCHAR,marks
VARCHAR);");
  }
  public void onClick(View view)
    // Inserting a record to the Student table
    if(view==Insert)
    {
      // Checking for empty fields
      if(Rollno.getText().toString().trim().length()==0||
           Name.getText().toString().trim().length()==0||
           Marks.getText().toString().trim().length()==0)
      {
        showMessage("Error", "Please enter all values");
        return;
      }
      db.execSQL("INSERT INTO student VALUES(""+Rollno.getText()+"",""+Name.getText()+
           "',""+Marks.getText()+"');");
      showMessage("Success", "Record added");
      clearText();
    }
    // Deleting a record from the Student table
    if(view==Delete)
```

```
showMessage("Success", "Record Modified");
  }
  else {
    showMessage("Error", "Invalid Rollno");
  }
  clearText();
// Display a record from the Student table
if(view==View)
  // Checking for empty roll number
  if(Rollno.getText().toString().trim().length()==0)
  {
    showMessage("Error", "Please enter Rollno");
    return;
  }
  Cursor c=db.rawQuery("SELECT * FROM student WHERE rollno=""+Rollno.getText()+""", null);
  if(c.moveToFirst())
    Name.setText(c.getString(1));
    Marks.setText(c.getString(2));
  }
  else
    showMessage("Error", "Invalid Rollno");
    clearText();
  }
}
// Displaying all the records
if(view==ViewAll)
  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("Marks: "+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();
}
public void clearText()
  Rollno.setText("");
  Name.setText("");
  Marks.setText("");
  Rollno.requestFocus();
}
```

Output:

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