

Android Practical (209) – Assignment-2

Question-1

1. Write an android application to – Create data table of your choice in database (MySQL database) Provide insert, update, delete, search, and browse (using ListView) operations on that table.

-----AndroidManifest.xml-----

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

<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.q1">

    <uses-permission android:name="android.permission.INTERNET"/>

    <application
        android:allowBackup="true"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportsRtl="true"
        android:theme="@style/Theme.Q1"
        android:usesCleartextTraffic="true">

        <activity
            android:name=".MainActivity2"
            android:exported="true" />

        <activity
            android:name=".MainActivity"
            android:exported="true">

            <intent-filter>

                <action android:name="android.intent.action.MAIN" />

                <category android:name="android.intent.category.LAUNCHER" />

            </intent-filter>

        </activity>

    </application>
```

</manifest>

=====JAVA FILES=====

-----MainActivity.java-----

```
package com.example.q1;

import androidx.annotation.Nullable;
import androidx.appcompat.app.AppCompatActivity;
import android.app.DatePickerDialog;
import android.content.ContentValues;
import android.content.Intent;
import android.database.sqlite.SQLiteDatabase;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.DatePicker;
import android.widget.EditText;
import android.widget.Toast;

import com.android.volley.AuthFailureError;
import com.android.volley.Request;
import com.android.volley.RequestQueue;
import com.android.volley.Response;
import com.android.volley.VolleyError;
import com.android.volley.toolbox.StringRequest;
import com.android.volley.toolbox.Volley;

import java.io.StringReader;
import java.util.Calendar;
import java.util.HashMap;
import java.util.Map;

public class MainActivity extends AppCompatActivity {

    EditText edtRollNo,edtName,edtMobile,edtDOB;
```

```
Button btnInsert,btnUpdate,btnDelete,btnSearch,btnView;
```

```
String rollNo,name,mobile,dob;
```

```
@Override
```

```
protected void onCreate(Bundle savedInstanceState) {
```

```
    super.onCreate(savedInstanceState);
```

```
    setContentView(R.layout.activity_main);
```

```
    edtRollNo = findViewById(R.id.edtRollNo);
```

```
    edtName = findViewById(R.id.edtName);
```

```
    edtMobile = findViewById(R.id.edtMobile);
```

```
    edtDOB = findViewById(R.id.edtDOB);
```

```
    btnInsert = findViewById(R.id.btnInsert);
```

```
    btnUpdate = findViewById(R.id.btnUpdate);
```

```
    btnDelete = findViewById(R.id.btnDelete);
```

```
    btnSearch = findViewById(R.id.btnSearch);
```

```
    btnView = findViewById(R.id.btnView);
```

```
    btnInsert.setOnClickListener(new View.OnClickListener() {
```

```
        @Override
```

```
        public void onClick(View view) {
```

```
            rollNo = edtRollNo.getText().toString();
```

```
            name = edtName.getText().toString();
```

```
            mobile = edtMobile.getText().toString();
```

```
            dob = edtDOB.getText().toString();
```

```
            if(rollNo.equals("") || name.equals("") || mobile.equals("") || dob.equals("")){
```

```
                Toast.makeText(getApplicationContext(), "Please fill all fields ", Toast.LENGTH_SHORT).show();
```

```
            }
```

```
            else{
```

```
                String url = "http://10.0.2.2/chandani/insert.php";
```

```

Response.Listener l = new Response.Listener() {
    @Override
    public void onResponse(Object response) {
        Toast.makeText(getApplicationContext(), response.toString(), Toast.LENGTH_SHORT).show();
    }
};

```

```

Response.ErrorListener el = new Response.ErrorListener() {
    @Override
    public void onErrorResponse(VolleyError error) {
        Toast.makeText(getApplicationContext(), error.toString(), Toast.LENGTH_SHORT).show();
    }
};

```

```

StringRequest sr = new StringRequest(Request.Method.POST,url,l,el){
    @Override
    protected Map<String, String> getParams() throws AuthFailureError {
        super.getParams();
        Map<String,String> m = new HashMap<>();
        m.put("rollno",edtRollNo.getText().toString());
        m.put("name",edtName.getText().toString());
        m.put("mobile",edtMobile.getText().toString());
        m.put("dob",edtDOB.getText().toString());
        return m;
    }
};

RequestQueue rq = Volley.newRequestQueue(getApplicationContext());
rq.add(sr);
}
}
});

```

```

btnUpdate.setOnClickListener(new View.OnClickListener() {
    @Override

```

```

public void onClick(View view) {

    String url = "http://10.0.2.2/chandani/update.php";
    Response.Listener l = new Response.Listener() {
        @Override
        public void onResponse(Object response) {
            Toast.makeText(getApplicationContext(), response.toString(), Toast.LENGTH_SHORT).show();
        }
    };

    Response.ErrorListener el = new Response.ErrorListener() {
        @Override
        public void onErrorResponse(VolleyError error) {
            Toast.makeText(getApplicationContext(), error.toString(), Toast.LENGTH_SHORT).show();
        }
    };

    StringRequest sr = new StringRequest(Request.Method.POST, url, l, el){
        @Override
        protected Map<String, String> getParams() throws AuthFailureError {
            super.getParams();
            Map<String,String> m = new HashMap<>();
            m.put("rollno",edtRollNo.getText().toString());
            m.put("name",edtName.getText().toString());
            m.put("mobile",edtMobile.getText().toString());
            m.put("dob",edtDOB.getText().toString());
            return m;
        }
    };

    RequestQueue rq = Volley.newRequestQueue(getApplicationContext());
    rq.add(sr);
}
});

```

```

btnDelete.setOnClickListener(new View.OnClickListener() {
    @Override

```

```

public void onClick(View view) {

    String url = "http://10.0.2.2/chandani/delete.php";
    Response.Listener l = new Response.Listener() {
        @Override
        public void onResponse(Object response) {
            Toast.makeText(getApplicationContext(), response.toString(), Toast.LENGTH_SHORT).show();
        }
    };
    Response.ErrorListener el = new Response.ErrorListener() {
        @Override
        public void onErrorResponse(VolleyError error) {
            Toast.makeText(getApplicationContext(), error.toString(), Toast.LENGTH_SHORT).show();
        }
    };
    StringRequest sr = new StringRequest(Request.Method.POST,url,l,el){
        @Override
        protected Map<String, String> getParams() throws AuthFailureError {
            super.getParams();

            Map<String,String> m = new HashMap<>();
            m.put("rollno",edtRollNo.getText().toString());
            return m;
        }
    };
    RequestQueue rq = Volley.newRequestQueue(getApplicationContext());
    rq.add(sr);
}
});

```

```

btnSearch.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        Intent i = new Intent(getApplicationContext(),MainActivity2.class);

```

```

        i.putExtra("data","rollno");

        i.putExtra("rollno",edtRollNo.getText().toString());

        startActivity(i);
    }
});

```

```

btnView.setOnClickListener(new View.OnClickListener() {

    @Override

    public void onClick(View view) {

        Intent i = new Intent(getApplicationContext(),MainActivity2.class);

        i.putExtra("data","all");

        startActivity(i);

    }

});
}

```

```

public void setDate(View v){

    Calendar c = Calendar.getInstance();

    int cyear = c.get(Calendar.YEAR);

    int cmonth = c.get(Calendar.MONTH);

    int cdayofmonth = c.get(Calendar.DAY_OF_MONTH);

```

```

    DatePickerDialog dpd = new DatePickerDialog(this, new DatePickerDialog.OnDateSetListener() {

        @Override

        public void onDateSet(DatePicker datePicker, int year, int month, int day) {

            edtDOB.setText(day+"/"+(month+1)+"/"+year);

        }

    },cyear,cmonth,cdayofmonth);

    dpd.show();

}
}

```



```
package com.example.q1;
```

```
import androidx.annotation.Nullable;
```

```
import androidx.appcompat.app.AppCompatActivity;
```

```
import android.content.Intent;
```

```
import android.database.Cursor;
```

```
import android.database.sqlite.SQLiteDatabase;
```

```
import android.os.Bundle;
```

```
import android.widget.AdapterView;
```

```
import android.widget.ListView;
```

```
import android.widget.SimpleCursorAdapter;
```

```
import android.widget.Toast;
```

```
import com.android.volley.AuthFailureError;
```

```
import com.android.volley.Request;
```

```
import com.android.volley.RequestQueue;
```

```
import com.android.volley.Response;
```

```
import com.android.volley.VolleyError;
```

```
import com.android.volley.toolbox.StringRequest;
```

```
import com.android.volley.toolbox.Volley;
```

```
import org.json.JSONArray;
```

```
import org.json.JSONException;
```

```
import org.json.JSONObject;
```

```
import java.util.ArrayList;
```

```
import java.util.HashMap;
```

```
import java.util.Map;
```

```
public class MainActivity2 extends AppCompatActivity {
```

```
    ListView lstStud;
```

@Override

```
protected void onCreate(Bundle savedInstanceState) {
```

```
    super.onCreate(savedInstanceState);
```

```
    setContentView(R.layout.activity_main2);
```

```
    lstStud = findViewById(R.id.lstStud);
```

```
    Intent i = getIntent();
```

```
    String search = i.getStringExtra("data").toString();
```

```
    if(search.equals("all")){
```

```
        String url = "http://10.0.2.2/chandani/view.php";
```

```
        Response.Listener<String> l = new Response.Listener<String>() {
```

```
            @Override
```

```
            public void onResponse(String response) {
```

```
                //Toast.makeText(getApplicationContext(),response.toString(),Toast.LENGTH_LONG).show();
```

```
                JSONArray ja = null;
```

```
                ArrayList<String> rl = new ArrayList<String>();
```

```
                try {
```

```
                    ja = new JSONArray(response);
```

```
                    for(int i=0;i<ja.length();i++){
```

```
                        JSONObject jo = ja.getJSONObject(i);
```

```
                        String record = ""+jo.get("rollno") + " " +jo.get("name") + " " +jo.get("mobile") + " " +jo.get("dob");
```

```
                        rl.add(record);
```

```
                    }
```

```
                } catch (JSONException e) {
```

```
                    e.printStackTrace();
```

```
                }
```

```

        ArrayAdapter aa = new ArrayAdapter(getApplicationContext(),R.layout.list_stud,rl);

        lstStud.setAdapter(aa);

    }

};

Response.ErrorListener el = new Response.ErrorListener() {

    @Override

    public void onErrorResponse(VolleyError error) {

        Toast.makeText(getApplicationContext(), error.toString(), Toast.LENGTH_SHORT).show();

    }

};

StringRequest sr = new StringRequest(Request.Method.POST,url,l,el);

RequestQueue rq = Volley.newRequestQueue(getApplicationContext());

rq.add(sr);

}

else if(search.equals("rollno")){

    String rollno = i.getStringExtra("rollno");

    String url = "http://10.0.2.2/chandani/search_rollno.php";

    Response.Listener<String> l = new Response.Listener<String>() {

        @Override

        public void onResponse(String response) {

            Toast.makeText(getApplicationContext(), response.toString(), Toast.LENGTH_SHORT).show();

            JSONArray ja = null;

            ArrayList<String> al = new ArrayList<String>();

            try {

                ja =new JSONArray(response);

                for(int i=0;i<ja.length();i++){

```

```

        JSONObject jo = ja.getJSONObject(i);

        String record = ""+jo.get("rollNo")+" "+jo.get("name")+" "+jo.get("mobile")+" "+jo.get("dob");

        al.add(record);

    }

} catch (JSONException e) {

    e.printStackTrace();

}

ArrayAdapter aa = new ArrayAdapter(getApplicationContext(),R.layout.text_stud,al);

lstStud.setAdapter(aa);


}

};

Response.ErrorListener el = new Response.ErrorListener() {

    @Override

    public void onErrorResponse(VolleyError error) {

        Toast.makeText(getApplicationContext(), error.toString(), Toast.LENGTH_SHORT).show();

    }

};

StringRequest sr = new StringRequest(Request.Method.POST,url,l,el){

    @Override

    protected Map<String, String> getParams() throws AuthFailureError {

        super.getParams();

        Map<String,String> m = new HashMap<>();

        m.put("rollno",rollno);

        return m;

    }

};

RequestQueue rq = Volley.newRequestQueue(getApplicationContext());

rq.add(sr);

}

}

}

```

=====Layout Files=====

-----activity_main.xml-----

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

```
<LinearLayout 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"
```

```
    android:orientation="vertical">
```

```
    <TextView
```

```
        android:text="SQLiteDatabase Example"
```

```
        android:textSize="30sp"
```

```
        android:layout_gravity="center"
```

```
        android:layout_width="wrap_content"
```

```
        android:layout_height="wrap_content"/>
```

```
    <EditText
```

```
        android:id="@+id/edtRollNo"
```

```
        android:hint="Enter RollNo"
```

```
        android:layout_width="match_parent"
```

```
        android:layout_height="wrap_content"
```

```
        android:inputType="numberDecimal"/>
```

```
    <EditText
```

```
        android:id="@+id/edtName"
```

```
        android:hint="Enter Name"
```

```
        android:layout_width="match_parent"
```

```
        android:layout_height="wrap_content"/>
```

```
    <EditText
```

```
        android:id="@+id/edtMobile"
```

```
        android:hint="Enter Mobile"
```

```
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:inputType="numberDecimal"/>
```

```
<EditText
```

```
    android:id="@+id/edtDOB"
    android:hint="Enter DOB"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:onClick="setDate"/>
```

```
<Button
```

```
    android:id="@+id/btnInsert"
    android:text="Insert"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"/>
```

```
<Button
```

```
    android:id="@+id/btnUpdate"
    android:text="Update"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"/>
```

```
<Button
```

```
    android:id="@+id/btnDelete"
    android:text="Delete"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"/>
```

```
<Button
```

```
    android:id="@+id/btnSearch"
    android:text="Search"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"/>
```

```
<Button
```

```
    android:id="@+id/btnView"
```

```
    android:text="View"
```

```
    android:layout_width="match_parent"
```

```
    android:layout_height="wrap_content"/>
```

```
</LinearLayout>
```

-----activity_main2.xml-----

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

<LinearLayout 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=".MainActivity2"
    android:orientation="vertical">

    <ListView
        android:id="@+id/lstStud"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"/>

</LinearLayout>
```

-----list_stud.xml-----

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

<TextView xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent">

</TextView>
```


=====PHP files=====

-----insert.php-----

<?php

\$rollno = \$_POST['rollno'];

\$name = \$_POST['name'];

\$mobile = \$_POST['mobile'];

\$dob = \$_POST['dob'];

\$conn = mysqli_connect("localhost","root","","chandani");

\$sql = "insert into stud values(\$rollno,'\$name','\$mobile','\$dob)";

if(mysqli_query(\$conn,\$sql)){

 echo "Inserted Successfully";

}

else{

 echo "Error in Insertion";

}

\$conn->close();

?>

```
<?php
```

```
$rollno = $_POST['rollno'];
```

```
$name = $_POST['name'];
```

```
$mobile = $_POST['mobile'];
```

```
$dob = $_POST['dob'];
```

```
$conn = mysqli_connect("localhost","root","","chandani");
```

```
$sql = "update stud set name = '$name', mobile = '$mobile', dob = '$dob' where rollno = $rollno";
```

```
if(mysqli_query($conn,$sql)){
```

```
    echo "Updated Successfully";
```

```
}
```

```
else{
```

```
    echo "Error in Update";
```

```
}
```

```
?>
```

```
<?php
```

```
$rollno = $_POST['rollno'];
```

```
$conn = mysqli_connect("localhost","root","","chandani");
```

```
$sql = "delete from stud where rollno = $rollno";
```

```
if(mysqli_query($conn,$sql)){
```

```
    echo "Deleted Successfully";
```

```
}
```

```
else{
```

```
    echo "Error in Delete";
```

```
}
```

```
?>
```

```
<?php
```

```
$conn = mysqli_connect("localhost","root","","chandani");
```

```
$sql = "select * from stud";
```

```
$result = mysqli_query($conn,$sql);
```

```
if($result->num_rows > 0){
```

```
    while($row[] = $result->fetch_assoc()){
```

```
        $temp = $row;
```

```
        $json = json_encode($temp);
```

```
    }
```

```
    echo $json;
```

```
}
```

```
else{
```

```
    echo "No data Found";
```

```
}
```

```
$conn->close();
```

```
?>
```

```
<?php
```

```
$rollno = $_POST['rollno'];
```

```
$conn = mysqli_connect("localhost","root","","chandani");
```

```
$sql = "select * from stud where rollno = $rollno";
```

```
$result = mysqli_query($conn,$sql);
```

```
if($result->num_rows > 0){
```

```
    while($row[] = $result->fetch_assoc()){
```

```
        $temp = $row;
```

```
        $json = json_encode($temp);
```

```
    }
```

```
    echo $json;
```

```
}
```

```
else{
```

```
    echo "No data Found";
```

```
}
```

```
$conn->close();
```

```
?>
```

Question-2 (SQLite Database)

2. Write an android application to create data table of your choice (minimum 5 fields) in SQLite database. Provide insert, update, delete, search, and display all (using ListView) operations on that table.

=====AndroidManifest.xml=====

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

```
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.q2">
```

```
    <application
```

```
        android:allowBackup="true"
```

```
        android:icon="@mipmap/ic_launcher"
```

```
        android:label="@string/app_name"
```

```
        android:roundIcon="@mipmap/ic_launcher_round"
```

```
        android:supportRtl="true"
```

```
        android:theme="@style/Theme.Q2">
```

```
        <activity
```

```
            android:name=".MainActivity2"
```

```
            android:exported="true" />
```

```
        <activity
```

```
            android:name=".MainActivity"
```

```
            android:exported="true">
```

```
            <intent-filter>
```

```
                <action android:name="android.intent.action.MAIN" />
```

```
                <category android:name="android.intent.category.LAUNCHER" />
```

```
            </intent-filter>
```

```
        </activity>
```

```
    </application>
```

```
</manifest>
```

=====java files=====

-----DBHelper.java-----

```
package com.example.q2;
```

```
import android.content.Context;
```

```
import android.database.sqlite.SQLiteDatabase;
```

```
import android.database.sqlite.SQLiteOpenHelper;
```

```
import androidx.annotation.Nullable;
```

```
public class DBHelper extends SQLiteOpenHelper {
```

```
    String createSQL = "create table stud(_id integer primary key autoincrement,rollno integer,name varchar,mobile  
varchar,dob varchar)";
```

```
    public DBHelper(@Nullable Context context) {
```

```
        super(context, "studentdb.db", null, 1);
```

```
    }
```

```
    @Override
```

```
    public void onCreate(SQLiteDatabase sqLiteDatabase) {
```

```
        sqLiteDatabase.execSQL(createSQL);
```

```
    }
```

```
    @Override
```

```
    public void onUpgrade(SQLiteDatabase sqLiteDatabase, int i, int i1) {
```

```
    }
```

```
}
```

```
package com.example.q2;
```

```
import androidx.appcompat.app.AppCompatActivity;
```

```
import android.app.DatePickerDialog;
```

```
import android.content.ContentValues;
```

```
import android.content.Intent;
```

```
import android.database.sqlite.SQLiteDatabase;
```

```
import android.os.Bundle;
```

```
import android.view.View;
```

```
import android.widget.Button;
```

```
import android.widget.DatePicker;
```

```
import android.widget.EditText;
```

```
import android.widget.Toast;
```

```
import java.util.Calendar;
```

```
public class MainActivity extends AppCompatActivity {
```

```
    EditText edtRollNo, edtName, edtMobile, edtDOB;
```

```
    Button btnInsert, btnUpdate, btnDelete, btnSearch, btnView;
```

```
    DBHelper dbh;
```

```
    @Override
```

```
    protected void onCreate(Bundle savedInstanceState) {
```

```
        super.onCreate(savedInstanceState);
```

```
        setContentView(R.layout.activity_main);
```

```
        edtRollNo = findViewById(R.id.edtRollNo);
```

```
        edtName = findViewById(R.id.edtName);
```

```
        edtMobile = findViewById(R.id.edtMobile);
```



```
edtDOB = findViewById(R.id.edtDOB);
```

```
btnInsert = findViewById(R.id.btnInsert);
```

```
btnUpdate = findViewById(R.id.btnUpdate);
```

```
btnDelete = findViewById(R.id.btnDelete);
```

```
btnSearch = findViewById(R.id.btnSearch);
```

```
btnView = findViewById(R.id.btnView);
```

```
btnInsert.setOnClickListener(new View.OnClickListener() {
```

```
    @Override
```

```
    public void onClick(View view) {
```

```
        dbh = new DBHelper(getApplicationContext());
```

```
        SQLiteDatabase sdb = dbh.getWritableDatabase();
```

```
        ContentValues cv = new ContentValues();
```

```
        cv.put("rollno", Integer.parseInt(edtRollNo.getText().toString()));
```

```
        cv.put("name", edtName.getText().toString());
```

```
        cv.put("mobile", edtMobile.getText().toString());
```

```
        cv.put("dob", edtDOB.getText().toString());
```

```
        long ans = sdb.insert("stud", null, cv);
```

```
        if(ans > 0){
```

```
            Toast.makeText(getApplicationContext(), "Inserted Successfully", Toast.LENGTH_SHORT).show();
```

```
        }
```

```
        else{
```

```
            Toast.makeText(getApplicationContext(), "Not Insserted", Toast.LENGTH_SHORT).show();
```

```
        }
```

```
    }
```

```
});
```

```
btnUpdate.setOnClickListener(new View.OnClickListener() {
```

```
    @Override
```

```
    public void onClick(View view) {
```

```
dbh = new DBHelper(getApplicationContext());
```

```
SQLiteDatabase sdb = dbh.getWritableDatabase();
```

```
ContentValues cv = new ContentValues();
```

```
cv.put("name",edtName.getText().toString());
```

```
cv.put("mobile",edtMobile.getText().toString());
```

```
cv.put("dob",edtDOB.getText().toString());
```

```
String whereClause = "rollno = ?";
```

```
String whereArgs[] = new String[]{edtRollNo.getText().toString()};
```

```
int ans = sdb.update("stud",cv,whereClause,whereArgs);
```

```
if(ans > 0){
```

```
    Toast.makeText(getApplicationContext(), "Updated Successfully", Toast.LENGTH_SHORT).show();
```

```
}
```

```
else{
```

```
    Toast.makeText(getApplicationContext(), "Not Updated", Toast.LENGTH_SHORT).show();
```

```
}
```

```
}
```

```
});
```

```
btnDelete.setOnClickListener(new View.OnClickListener() {
```

```
    @Override
```

```
    public void onClick(View view) {
```

```
        dbh = new DBHelper(getApplicationContext());
```

```
        SQLiteDatabase sdb = dbh.getWritableDatabase();
```

```
        String whereClause = "rollno = ?";
```

```
        String whereArgs[] = new String[]{edtRollNo.getText().toString()};
```

```
        int ans = sdb.delete("stud",whereClause,whereArgs);
```

```
        if(ans > 0){
```

```

        Toast.makeText(getApplicationContext(), "Deleted Successfully", Toast.LENGTH_SHORT).show();
    }
    else{
        Toast.makeText(getApplicationContext(), "Not Deleted", Toast.LENGTH_SHORT).show();
    }
}
});

```

```

btnSearch.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        Intent i = new Intent(getApplicationContext(),MainActivity2.class);
        i.putExtra("data","rollno");
        i.putExtra("rollNo",edtRollNo.getText().toString());
        startActivity(i);
    }
});

```

```

btnView.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        Intent i = new Intent(getApplicationContext(),MainActivity2.class);
        i.putExtra("data","all");
        startActivity(i);
    }
});
}

```

```

public void setDate(View v){

    Calendar c = Calendar.getInstance();
    int cyear = c.get(Calendar.YEAR);
    int cmonth = c.get(Calendar.MONTH);
    int cdayofmonth = c.get(Calendar.DAY_OF_MONTH);

```

```
DatePickerDialog dpd = new DatePickerDialog(this, new DatePickerDialog.OnDateSetListener() {  
    @Override  
    public void onDateSet(DatePicker datePicker, int year, int month, int day) {  
        edtDOB.setText(day+"/"+(month+1)+"/"+year);  
    }  
    },cyear,cmonth,cdayofmonth);  
  
    dpd.show();  
}  
}
```

```
package com.example.q2;
```

```
import androidx.appcompat.app.AppCompatActivity;
```

```
import android.content.Intent;
```

```
import android.database.Cursor;
```

```
import android.database.sqlite.SQLiteDatabase;
```

```
import android.os.Bundle;
```

```
import android.widget.ListView;
```

```
import android.widget.SimpleCursorAdapter;
```

```
import android.widget.Toast;
```

```
public class MainActivity2 extends AppCompatActivity {
```

```
    ListView lstStud;
```

```
    DBHelper dbh;
```

```
    @Override
```

```
    protected void onCreate(Bundle savedInstanceState) {
```

```
        super.onCreate(savedInstanceState);
```

```
        setContentView(R.layout.activity_main2);
```

```
        lstStud = findViewById(R.id.lstStud);
```

```
        Intent i = getIntent();
```

```
        String search = i.getStringExtra("data").toString();
```

```
        if(search.equals("all")){
```

```
            dbh = new DBHelper(getApplicationContext());
```

```
            SQLiteDatabase sdb = dbh.getReadableDatabase();
```

```
            Cursor c = sdb.query("stud", null, null, null, null, null, null);
```

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

```

        Toast.makeText(getApplicationContext(), "No Data Found", Toast.LENGTH_SHORT).show();
    }
    else{
        String from[] = new String[]{"rollNo","name","mobile","dob"};
        int to[] = new int[]{R.id.txtRollNo,R.id.txtName,R.id.txtMobile,R.id.txtDOB};
        SimpleCursorAdapter sca = new SimpleCursorAdapter(this,R.layout.list_stud,c,from,to);
        lstStud.setAdapter(sca);
    }

}

else if(search.equals("rollNo")){
    String rollNo = i.getStringExtra("rollNo");

    dbh = new DBHelper(getApplicationContext());
    SQLiteDatabase sdb = dbh.getReadableDatabase();

    String whereClause = "rollNo = ?";
    String whereArgs[] = new String[]{rollNo};

    Cursor c = sdb.query("stud",null,whereClause,whereArgs,null,null,null);

    if(c.getCount() == 0){
        Toast.makeText(getApplicationContext(), "No Data Found", Toast.LENGTH_SHORT).show();
    }
    else{
        String from[] = new String[]{"rollNo","name","mobile","dob"};
        int to[] = new int[]{R.id.txtRollNo,R.id.txtName,R.id.txtMobile,R.id.txtDOB};
        SimpleCursorAdapter sca = new SimpleCursorAdapter(this,R.layout.list_stud,c,from,to);
        lstStud.setAdapter(sca);
    }
}

}
}
}

```

=====layout files=====

-----activity_main.xml-----

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

```
<LinearLayout 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"
```

```
    android:orientation="vertical">
```

```
    <TextView
```

```
        android:text="SQLiteDatabase Example"
```

```
        android:textSize="30sp"
```

```
        android:layout_gravity="center"
```

```
        android:layout_width="wrap_content"
```

```
        android:layout_height="wrap_content"/>
```

```
    <EditText
```

```
        android:id="@+id/edtRollNo"
```

```
        android:hint="Enter RollNo"
```

```
        android:layout_width="match_parent"
```

```
        android:layout_height="wrap_content"
```

```
        android:inputType="numberDecimal"/>
```

```
    <EditText
```

```
        android:id="@+id/edtName"
```

```
        android:hint="Enter Name"
```

```
        android:layout_width="match_parent"
```

```
        android:layout_height="wrap_content"/>
```

```
    <EditText
```

```
        android:id="@+id/edtMobile"
```

```
        android:hint="Enter Mobile"
```

```
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:inputType="numberDecimal"/>
```

```
<EditText
```

```
    android:id="@+id/edtDOB"
    android:hint="Enter DOB"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:onClick="setDate"/>
```

```
<Button
```

```
    android:id="@+id/btnInsert"
    android:text="Insert"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"/>
```

```
<Button
```

```
    android:id="@+id/btnUpdate"
    android:text="Update"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"/>
```

```
<Button
```

```
    android:id="@+id/btnDelete"
    android:text="Delete"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"/>
```

```
<Button
```

```
    android:id="@+id/btnSearch"
    android:text="Search"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"/>
```



```
<Button
```

```
    android:id="@+id/btnView"
```

```
    android:text="View"
```

```
    android:layout_width="match_parent"
```

```
    android:layout_height="wrap_content"/>
```

```
</LinearLayout>
```

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

<LinearLayout 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=".MainActivity2"
    android:orientation="vertical">

    <ListView
        android:id="@+id/lstStud"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"/>

</LinearLayout>
```

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

<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:orientation="horizontal"
    android:layout_width="match_parent"
    android:layout_height="match_parent">

    <TextView
        android:id="@+id/txtRollNo"
        android:layout_margin="5dp"
        android:textSize="20sp"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"/>

    <TextView
        android:id="@+id/txtName"
        android:layout_margin="5dp"
        android:textSize="20sp"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"/>

    <TextView
        android:id="@+id/txtMobile"
        android:layout_margin="5dp"
        android:textSize="20sp"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"/>

    <TextView
        android:id="@+id/txtDOB"
        android:layout_margin="5dp"
        android:textSize="20sp"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"/>

</LinearLayout>
```