Fragment_SQLite MIX:

Main.xml:

```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">

    <TextView
        android:id="@+id/textView2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Hello World!"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.464"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.058" />

    <EditText
        android:id="@+id/ed1_208"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:ems="10"
        android:hint="id"
        android:inputType="text"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.402"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.119" />

    <EditText
        android:id="@+id/ed2_208"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:ems="10"
        android:hint="name"
        android:inputType="text"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.402"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.215" />

    <EditText
        android:id="@+id/ed3_208"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:ems="10"
        android:hint="course"
        android:inputType="text"
        app:layout_constraintBottom_toBottomOf="parent"
```

```xml
            app:layout_constraintEnd_toEndOf="parent"
            app:layout_constraintHorizontal_bias="0.402"
            app:layout_constraintStart_toStartOf="parent"
            app:layout_constraintTop_toTopOf="parent"
            app:layout_constraintVertical_bias="0.294" />

    <Button
        android:id="@+id/insert_208"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="insert"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.219"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.428" />

    <Button
        android:id="@+id/update_208"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="update"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.65"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.428" />

    <Button
        android:id="@+id/delete_208"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="delete"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.219"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.532" />

    <Button
        android:id="@+id/display_208"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="display"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.65"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.531" />

    <androidx.fragment.app.FragmentContainerView
        android:id="@+id/fragmentContainerView"
        android:name="com.example.endterm.BlankFragment"
        android:layout_width="285dp"
        android:layout_height="256dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
```

```xml
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.913" />

</androidx.constraintlayout.widget.ConstraintLayout>
```

mainActivity.java:

```java
package com.example.endterm;

import androidx.appcompat.app.AlertDialog;
import androidx.appcompat.app.AppCompatActivity;
import androidx.fragment.app.Fragment;
import androidx.fragment.app.FragmentManager;
import androidx.fragment.app.FragmentTransaction;

import android.database.Cursor;
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 {
    EditText ed1_208,ed2_208,ed3_208;
    Button insert_208,update_208,delete_208,display_208;
    Helper hp;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        hp= new Helper(this);
        ed1_208=findViewById(R.id.ed1_208);
        ed2_208=findViewById(R.id.ed2_208);
        ed3_208=findViewById(R.id.ed3_208);
        insert_208=findViewById(R.id.insert_208);
        update_208=findViewById(R.id.update_208);
        delete_208=findViewById(R.id.delete_208);
        display_208=findViewById(R.id.display_208);

        insert_208.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                boolean
isInserted=hp.insertData(ed1_208.getText().toString(),ed2_208.getText().toS
tring(),ed3_208.getText().toString());
                if(isInserted==true) {
                    Toast.makeText(MainActivity.this, "dataInserted",
Toast.LENGTH_SHORT).show();
                }
                else {
                    Toast.makeText(MainActivity.this, "not inserted",
Toast.LENGTH_SHORT).show();
                }
            }
        });
        update_208.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                boolean
```

```java
isUpdated=hp.updateData(ed1_208.getText().toString(),ed2_208.getText().toSt
ring(),ed3_208.getText().toString());
                if(isUpdated==true)
                    Toast.makeText(MainActivity.this, "updated",
Toast.LENGTH_SHORT).show();
                else
                    Toast.makeText(MainActivity.this, "Not updated",
Toast.LENGTH_SHORT).show();
            }
        });
        delete_208.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                Integer
deleteRows=hp.deleteData(ed1_208.getText().toString());
                if (deleteRows>0)
                    Toast.makeText(MainActivity.this, "deleted",
Toast.LENGTH_SHORT).show();
                else
                    Toast.makeText(MainActivity.this, "not deleted",
Toast.LENGTH_SHORT).show();
            }
        });
        display_208.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                Cursor res = hp.displayData();
                if (res.getCount() == 0) {
                    //showMessage("error", "data Found");
                    Toast.makeText(MainActivity.this, "not found",
Toast.LENGTH_SHORT).show();
                    return ;
                }
                StringBuffer buffer = new StringBuffer();
                while (res.moveToNext()) {
                    buffer.append("Id : "+res.getString(0)+"\n");
                    buffer.append("name :"+res.getString(1)+"\n");
                    buffer.append("course :"+res.getString(2)+"\n\n");
                }
                //showMessage("data",buffer.toString());
                Fragment frag=new BlankFragment(buffer.toString());
                FragmentManager fm=getSupportFragmentManager();
                FragmentTransaction ft=fm.beginTransaction();
                ft.replace(R.id.fragmentContainerView,frag);
                ft.commit();
            }
        });

    }
   /* private void showMessage(String title,String message){
        AlertDialog.Builder builder=new AlertDialog.Builder(this);
        builder.setCancelable(true);
        builder.setTitle(title);
        builder.setMessage(message);
        builder.show();
        }*/
}
```

helper.java:

```java
package com.example.endterm;

import android.content.ContentValues;
import android.content.Context;
import android.database.Cursor;
import android.database.sqlite.SQLiteDatabase;
import android.database.sqlite.SQLiteOpenHelper;

public class Helper extends SQLiteOpenHelper {
    public static final String DATABASE="student.db";
    public static final String TABLE="student_table";
    public static final String COL_1="ID";
    public static final String COL_2="NAME";
    public static final String COL_3="COURSE";
    public Helper(Context context) {
        super(context, DATABASE, null, 1);
    }

    @Override
    public void onCreate(SQLiteDatabase sqLiteDatabase) {
        sqLiteDatabase.execSQL("create table "+TABLE+"( ID INT  PRIMARY
KEY,NAME TEXT,COURSE TEXT)");
    }

    @Override
    public void onUpgrade(SQLiteDatabase sqLiteDatabase, int i, int i1) {
        sqLiteDatabase.execSQL("DROP TABLE IF EXISTS "+TABLE);
        onCreate(sqLiteDatabase);
    }

    public boolean insertData(String id,String name,String course){
        SQLiteDatabase sqLiteDatabase=this.getWritableDatabase();
        ContentValues content=new ContentValues();
        content.put(COL_1,id);
        content.put(COL_2,name);
        content.put(COL_3,course);
        long r = sqLiteDatabase.insert(TABLE,null,content);
        if(r == -1)
            return false;
        else
            return  true;
    }

    public boolean updateData(String id,String name,String course){
        SQLiteDatabase sqLiteDatabase=this.getWritableDatabase();
        ContentValues content=new ContentValues();
        content.put(COL_1,id);
        content.put(COL_2,name);
        content.put(COL_3,course);
        sqLiteDatabase.update(TABLE,content,"ID = ?",new String[] {id});
        return true;
    }

    public Integer deleteData(String id){
        SQLiteDatabase sqLiteDatabase=this.getWritableDatabase();
        return sqLiteDatabase.delete(TABLE,"ID = ?",new String[] {id});
    }

    public Cursor displayData(){
        SQLiteDatabase sqLiteDatabase=this.getWritableDatabase();
        Cursor res= sqLiteDatabase.rawQuery("select * from "+ TABLE,null);
```

```
        return  res;
    }
}
```

fragment_blank.xml:

```xml
<?xml version="1.0" encoding="utf-8"?>
<FrameLayout 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"
    tools:context=".BlankFragment">

    <!-- TODO: Update blank fragment layout -->
    <!--
    <TextView
        android:id="@+id/fragmentPortion"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:text="@string/hello_blank_fragment" />
    -->
    <TextView
        android:id="@+id/textView"
        android:layout_width="match_parent"
        android:layout_height="395dp"
        android:text="TextView" />

</FrameLayout>
```

BlankFragment.java:

```java
package com.example.endterm;

import android.os.Bundle;

import androidx.fragment.app.Fragment;

import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.TextView;

/**
 * A simple {@link Fragment} subclass.
 * Use the {@link BlankFragment#newInstance} factory method to
 * create an instance of this fragment.
 */
public class BlankFragment extends Fragment {

    // TODO: Rename parameter arguments, choose names that match
    // the fragment initialization parameters, e.g. ARG_ITEM_NUMBER
    private static final String ARG_PARAM1 = "param1";
    private static final String ARG_PARAM2 = "param2";

    // TODO: Rename and change types of parameters
    private String mParam1;
    private String mParam2;
```

```java
    private  String buff;//////
    TextView tv;//////

    public BlankFragment() {
        // Required empty public constructor
    }
    public BlankFragment(String buff){
        this.buff=buff; /////
    }

    /**
     * Use this factory method to create a new instance of
     * this fragment using the provided parameters.
     *
     * @param param1 Parameter 1.
     * @param param2 Parameter 2.
     * @return A new instance of fragment BlankFragment.
     */
    // TODO: Rename and change types and number of parameters
    public static BlankFragment newInstance(String param1, String param2) {
        BlankFragment fragment = new BlankFragment();
        Bundle args = new Bundle();
        args.putString(ARG_PARAM1, param1);
        args.putString(ARG_PARAM2, param2);
        fragment.setArguments(args);
        return fragment;
    }

    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        if (getArguments() != null) {
            mParam1 = getArguments().getString(ARG_PARAM1);
            mParam2 = getArguments().getString(ARG_PARAM2);
        }
    }

    @Override
    public View onCreateView(LayoutInflater inflater, ViewGroup container,
                             Bundle savedInstanceState) {
        // Inflate the layout for this fragment
        View view = inflater.inflate(R.layout.fragment_blank, container,
false);
        tv=view.findViewById(R.id.textView);/////
        tv.setText(buff);/////
        return view;/////
    }
}
```

Hello World!

6

r

mech|

insert   **update**

delete   **display**

Id : 5
name :raj
course :ece

Id : 6
name :r
course :mech