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package com.example.curd;
import android.annotation.SuppressLint;
import android.content.Context;
import android.database.Cursor;
import android.database.sqlite.SQLiteDatabase;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;
import androidx.appcompat.app.AppCompatActivity;
public class MainActivity extends AppCompatActivity {
    SQLiteDatabase db;
    Button btnSave, btnupdate, btndelete, btnread;
    EditText edtxtname, edtxtage;
    @SuppressWarnings("MissingInflatedId")
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        btnSave = findViewById(R.id.btnSave);
        btnupdate = findViewById(R.id.btnupdate);
        btndelete = findViewById(R.id.btndelete);
        btnread = findViewById(R.id.btnread);
        edtxtname = findViewById(R.id.edtxtname);
        edtxtage = findViewById(R.id.edtxtage);
        db = openOrCreateDatabase("StudentDB", Context.MODE_PRIVATE, null);
        db.execSQL("CREATE TABLE IF NOT EXISTS Student1(Name VARCHAR, Age VARCHAR);");
        btnSave.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                insertRecord();
            }
        });
        btnupdate.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                updateRecord();
            }
        });
        btndelete.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                deleteRecord();
            }
        });
    }
}

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}
});
btnread.setOnClickListener(new View.OnClickListener() {
@Override
public void onClick(View view) {
readRecords();
}
});
}
private void insertRecord() {
db.execSQL("INSERT INTO Student1 VALUES('"+edtxtname.getText()+"','"+
edtxttage.getText()+"');");
Toast.makeText(getApplicationContext(),"Record Inserted",Toast.LENGTH_LONG).show();
}
private void updateRecord() {
db.execSQL("UPDATE Student1 SET Age='"+edtxttage.getText()+"' WHERE
Name='"+edtxtname.getText()+"';");
Toast.makeText(getApplicationContext(),"Record Updated",Toast.LENGTH_LONG).show();
}
private void deleteRecord() {
db.execSQL("DELETE FROM Student1 WHERE Name='"+edtxtname.getText()+"';");
Toast.makeText(getApplicationContext(),"Record Deleted",Toast.LENGTH_LONG).show();
}
private void readRecords() {
Cursor cursor = db.rawQuery("SELECT * FROM Student1", null);
StringBuilder stringBuilder = new StringBuilder();
if (cursor.moveToFirst()) {
do {
String name = cursor.getString(0);
String age = cursor.getString(1);
stringBuilder.append("Name: ").append(name).append(", Age: ").append(age).append("\n");
} while (cursor.moveToNext());
}
cursor.close();
Toast.makeText(getApplicationContext(), stringBuilder.toString(),
Toast.LENGTH_LONG).show();
}
}

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XML

activity_main.xml:

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<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"

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xmlns:tools="http://schemas.android.com/tools"
android:layout_width="match_parent"
android:layout_height="match_parent"
android:padding="16dp"
tools:context=".MainActivity">
<EditText
android:id="@+id/edtxtname"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:hint="Name"
android:layout_marginBottom="16dp"/>
<EditText
android:id="@+id/edtxtage"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:hint="Age"
android:layout_below="@id/edtxtname"
android:layout_marginBottom="16dp"/>
<Button
android:id="@+id/btnsave"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:text="Save"
android:layout_below="@id/edtxtage"
android:layout_marginBottom="16dp"/>
<Button
android:id="@+id/btnupdate"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:text="Update"
android:layout_below="@id/btnsave"
android:layout_marginBottom="16dp"/>
<Button
android:id="@+id/btndelete"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:text="Delete"
android:layout_below="@id/btnupdate"
android:layout_marginBottom="16dp"/>
<Button
android:id="@+id/btnread"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:text="Read"
```

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android:layout_below="@id/btndelete"  
android:layout_marginBottom="16dp"/>  
</RelativeLayout>
```