# Activity\_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
   <EditText
           android:layout width="match parent"
           android:layout height="wrap content"
           android:inputType="number" />
           android:id="@+id/etName"
   <EditText
           android:id="@+id/etCGPA"
           android:inputType="numberDecimal" />
           android:id="@+id/btnAdd"
           android:layout height="wrap content"
           android:text="Delete" />
           android:id="@+id/btnView"
           android:layout width="match parent"
           android:layout height="wrap content"
           android:text="View" />
           android:layout width="match parent"
           android:layout height="wrap content"
   <TextView
           android:text=""
           android:textSize="15dp"
```

```
android:layout_width="376dp"
    android:layout_height="308dp" android:id="@+id/tvDetails"/>
</LinearLayout>
```

## MainActivity.kt

```
package com.example.ex5
import UsersDBHelper
import android.database.sqlite.SQLiteDatabase
import android.widget.Button
import androidx.appcompat.app.AppCompatActivity
class MainActivity : AppCompatActivity() {
   private lateinit var dbHelper: UsersDBHelper
   override fun onCreate(savedInstanceState: Bundle?) {
       setContentView(R.layout.activity main)
       dbHelper = UsersDBHelper(this)
       btnModify = findViewById(R.id.btnModify)
       btnDelete = findViewById(R.id.btnDelete)
       btnView = findViewById(R.id.btnView)
       btnClear = findViewById(R.id.btnClear)
       btnAdd.setOnClickListener {
           insertData()
           updateData()
            deleteData()
```

```
btnView.setOnClickListener {
           viewData()
       btnClear.setOnClickListener {
          clearFields()
       val name = etName.text.toString()
       val cgpa = etCGPA.text.toString().toDouble()
       val values = ContentValues().apply {
           put(DBContract.StudentEntry.COLUMN REGISTER NUMBER, registerNumber)
           put(DBContract.StudentEntry.COLUMN_NAME, name)
           put(DBContract.StudentEntry.COLUMN CGPA, cgpa)
Toast.LENGTH SHORT).show()
       val registerNumber = etRegisterNumber.text.toString().toInt()
       val cgpa = etCGPA.text.toString().toDouble()
       val values = ContentValues().apply {
           put(DBContract.StudentEntry.COLUMN NAME, name)
           put(DBContract.StudentEntry.COLUMN CGPA, cgpa)
       val selectionArgs = arrayOf(registerNumber.toString())
       val count = db?.update(
           selectionArgs
       Toast.makeText(this, "Updated $count rows", Toast.LENGTH SHORT).show()
       val registerNumber = etRegisterNumber.text.toString().toInt()
       val selectionArgs = arrayOf(registerNumber.toString())
selectionArgs)
```

```
while (cursor?.moveToNext() == true) {
           val registerNumber =
cursor.getInt(cursor.getColumnIndexOrThrow(DBContract.StudentEntry.COLUMN REGISTER
cursor.getString(cursor.getColumnIndexOrThrow(DBContract.StudentEntry.COLUMN NAME))
cursor.getDouble(cursor.getColumnIndexOrThrow(DBContract.StudentEntry.COLUMN CGPA))
           tvDetails.append("Register Number: $registerNumber, Name: $name, CGPA:
$cgpa\n")
       cursor?.close()
       super.onDestroy()
```

## DBContract.kt

```
}
```

#### UserModel.kt

```
package com.example.ex5

data class UserModel(val registerNumber: Int, val name: String, val cgpa: Double)
```

### UsersDBHelper.kt