**Activity:**

*<?***xml version="1.0" encoding="utf-8"***?>*<**LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:orientation="vertical"**>  
  
 <**TextView  
 android:id="@+id/cname"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:textSize="50dp"  
 android:layout\_margin="5dp"  
 android:text="Name"** />  
  
 <**EditText  
 android:id="@+id/cname1"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:inputType="textPersonName"  
 android:text=""** />  
  
 <**TextView  
 android:id="@+id/count"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:textSize="50dp"  
 android:layout\_margin="5dp"  
 android:ems="10"  
 android:text="Age"** />  
  
 <**EditText  
 android:id="@+id/count1"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:inputType="textPersonName"  
  
 android:text=""** />  
  
 <**EditText  
 android:id="@+id/cid1"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:inputType="textPersonName"  
 android:text=""  
 android:visibility="visible"**/>  
  
 <**Button  
 android:id="@+id/button"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="Add"  
 android:textSize="10dp"** />  
  
 <**Button  
 android:id="@+id/button2"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="View"  
 android:textSize="10dp"**/>  
  
 <**Button  
 android:id="@+id/button3"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="Update"  
 android:textSize="10dp"**/>  
 <**Button  
 android:id="@+id/button4"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="Delete"  
 android:textSize="10dp"**/>  
</**LinearLayout**>

DB:

**package** com.example.androiddatabasecrud;  
  
**import** android.content.ContentValues;  
**import** android.content.Context;  
**import** android.database.Cursor;  
**import** android.database.sqlite.SQLiteDatabase;  
**import** android.database.sqlite.SQLiteOpenHelper;  
  
**import** androidx.annotation.Nullable;  
  
**public class** DatabaseHelper **extends** SQLiteOpenHelper {  
 **public static final** String ***DATABASE\_NAME*** =**"TasbeehCount.db"**;  
 **public static final** String ***TABLE\_NAME*** =**"Counters"**;  
 **public static final** String ***COL\_1*** =**"CountId"**;  
 **public static final** String ***COL\_2*** =**"CountName"**;  
 **public static final** String ***COL\_3*** =**"Counts"**;  
  
 **public** DatabaseHelper(@Nullable Context context) {  
 **super**(context, ***DATABASE\_NAME***, **null**, 1);  
  
 }  
  
 @Override  
 **public void** onCreate(SQLiteDatabase db) {  
 db.execSQL(**"CREATE TABLE Counters "** +*//exec means execute, parameter db* **"(CountId INTEGER PRIMARY KEY AUTOINCREMENT, CountName TEXT, Counts TEXT)"**);  
 }  
  
 @Override  
 **public void** onUpgrade(SQLiteDatabase db, **int** oldVersion, **int** newVersion) {  
  
 }  
  
  
 **public boolean** addName(String cname, String count ){  
 SQLiteDatabase db = **this**.getWritableDatabase();  
 ContentValues contentValues = **new** ContentValues();  
 contentValues.put(**"CountName"**,cname);  
 contentValues.put(**"Counts"**,count);  
  
 **long** res = db.insert(**"Counters"**,**null**, contentValues);  
 **if**(res==-1){  
 **return false**;  
 }  
 **else**{  
 **return true**;  
 }  
 }  
**public** Cursor getAllData(){  
 SQLiteDatabase db = **this**.getWritableDatabase();  
 Cursor res=db.rawQuery(**"select \* from "**+***TABLE\_NAME***,**null**);  
 **return** res;  
}  
 **public boolean** updateName(String cid, String cname, String count ){  
 SQLiteDatabase db = **this**.getWritableDatabase();  
 ContentValues contentValues = **new** ContentValues();  
 contentValues.put(**"CountId"**,cid);  
 contentValues.put(**"CountName"**,cname);  
 contentValues.put(**"Counts"**,count);  
  
 db.update(**"Counters"**, contentValues, **"CountId = ?"**, **new** String[] {cid});  
 **return true**;  
 }  
 **public** Integer deleteName(String cid ){  
 SQLiteDatabase db = **this**.getWritableDatabase();  
  
  
 **return** db.delete(**"Counters"**,**"CountId = ?"**, **new** String[] {cid});  
  
 }  
}

Java:

**package** com.example.androiddatabasecrud;  
  
**import** androidx.appcompat.app.AlertDialog;  
**import** androidx.appcompat.app.AppCompatActivity;  
  
**import** android.database.Cursor;  
**import** android.os.Bundle;  
**import** android.os.Message;  
**import** android.view.View;  
**import** android.widget.Button;  
**import** android.widget.EditText;  
**import** android.widget.TextView;  
**import** android.widget.Toast;  
  
**public class** MainActivity **extends** AppCompatActivity {  
 DatabaseHelper **db**;  
 TextView **txv1**,**txv2**;  
 EditText **et1**,**et2**,**et3**;  
 Button **btn**,**view**,**btnUpdate**,**btnDelete**;  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
 **db**=**new** DatabaseHelper(**this**);  
 **et1** = (EditText) findViewById(R.id.***cname1***);  
 **et2** = (EditText) findViewById(R.id.***count1***);  
 **et3** = (EditText) findViewById(R.id.***cid1***);  
  
 **btn** = (Button) findViewById(R.id.***button***);  
 **view** = (Button) findViewById(R.id.***button2***);  
 **btnUpdate**=(Button) findViewById(R.id.***button3***);  
 **btnDelete**=(Button) findViewById(R.id.***button4***);  
  
 **txv1** = (TextView) findViewById(R.id.***cname***);  
 **txv2** = (TextView) findViewById(R.id.***count***);  
  
 AddData();  
 viewAll();  
 UpdateData();  
 DeleteData();  
 }  
 **public void** DeleteData(){  
 **btnDelete**.setOnClickListener(  
 **new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
 Integer isinserted= **db**.deleteName(**et3**.getText().toString());  
 **if**(isinserted>0)  
 Toast.*makeText*(MainActivity.**this**,**"Data deleted"**,Toast.***LENGTH\_LONG***).show();  
  
 **else** Toast.*makeText*(MainActivity.**this**,**"Data not deleted"**,Toast.***LENGTH\_LONG***).show();  
 }  
 }  
 );  
 }  
  
 **public void** AddData(){  
 **btn**.setOnClickListener(  
 **new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
 **boolean** isinserted= **db**.addName(**et1**.getText().toString(),**et2**.getText().toString());  
 **if**(isinserted==**true**)  
 Toast.*makeText*(MainActivity.**this**,**"Data inserted"**,Toast.***LENGTH\_LONG***).show();  
  
 **else** Toast.*makeText*(MainActivity.**this**,**"Data not inserted"**,Toast.***LENGTH\_LONG***).show();  
 }  
 }  
 );  
 }  
  
 **public void** viewAll(){  
 **view**.setOnClickListener(  
 **new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
 Cursor res= **db**.getAllData();  
 **if**(res.getCount()==0){  
 showMessage(**"Error"**,**"Nothing found"**);  
 **return**;  
 }  
 StringBuffer buf=**new** StringBuffer();  
 **while**(res.moveToNext()){  
 buf.append(**"Id: "**+res.getString(0)+**"\n"**);  
 buf.append(**"Name: "**+res.getString(1)+**"\n"**);  
 buf.append(**"Age: "**+res.getString(2)+**"\n"**);  
  
 }  
 showMessage(**"Data"**,buf.toString());  
 }  
 }  
 );  
 }  
  
 **public void** showMessage(String title, String message){  
  
 AlertDialog.Builder builder= **new** AlertDialog.Builder(**this**);  
 builder.setCancelable(**true**);  
 builder.setTitle(title);  
 builder.setMessage(message);  
 builder.show();  
 }  
 **public void** UpdateData(){  
 **btnUpdate**.setOnClickListener(  
 **new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
 **boolean** isUpdate= **db**.updateName(**et3**.getText().toString(),**et1**.getText().toString(),**et2**.getText().toString());  
 **if**(isUpdate==**true**)  
 Toast.*makeText*(MainActivity.**this**,**"Data updated"**,Toast.***LENGTH\_LONG***).show();  
  
 **else** Toast.*makeText*(MainActivity.**this**,**"Data not updated"**,Toast.***LENGTH\_LONG***).show();  
 }  
 }  
 );  
 }  
}