Content Provider

package com.example.studentinfo;  
  
  
import android.content.ContentProvider;  
import android.content.ContentUris;  
import android.content.ContentValues;  
import android.content.Context;  
import android.content.UriMatcher;  
import android.database.Cursor;  
import android.database.SQLException;  
import android.database.sqlite.SQLiteDatabase;  
import android.net.Uri;  
  
public class Books extends ContentProvider  
{  
  
 static final String *PROVIDER\_NAME* ="com.example.MyApplication.BooksProvider";  
 static final String *URL* = "content://" + *PROVIDER\_NAME* + "/tblbooks";  
 static final Uri *CONTENT\_URI* = Uri.*parse*(*URL*);  
  
 static final int *BOOKS* = 1;  
 static final int *BOOK\_ID* = 2;  
 static final UriMatcher *uriMatcher*;  
 static  
 {  
 *uriMatcher* = new UriMatcher(UriMatcher.*NO\_MATCH*);  
 *uriMatcher*.addURI(*PROVIDER\_NAME*, "tblbooks", *BOOKS*);  
 *//content://com.example.Myapplication.BooksProvider/tblbooks  
 uriMatcher*.addURI(*PROVIDER\_NAME*, "tblbooks/#", *BOOK\_ID*);  
 *//content://com.example.myapplication.BooksProvider/tblbooks/2* }  
 SQLiteDatabase sqLiteDatabase;  
  
 Database db=new Database(getContext());  
 @Override  
 public int delete(Uri uri, String selection, String[] selectionArgs)  
 {  
 int count=sqLiteDatabase.delete(Database.*TABLE\_NAME*,selection,selectionArgs);  
 getContext().getContentResolver().notifyChange(uri,null);  
 return count;  
 }  
  
 @Override  
 public String getType(Uri uri) {  
 *// TODO: Implement this to handle requests for the MIME type of the data  
 // at the given URI.* throw new UnsupportedOperationException("Not yet implemented");  
 }  
  
 @Override  
 public Uri insert(Uri uri, ContentValues values) {  
 long rowid=sqLiteDatabase.insert(Database.*TABLE\_NAME*,null,values);  
 if(rowid > 0)  
 {  
 Uri \_uri = ContentUris.*withAppendedId*(Books.*CONTENT\_URI*,  
 rowid);  
 getContext().getContentResolver().notifyChange(\_uri, null);  
 return \_uri; *// it return* }  
 else  
 {  
 throw new SQLException("Failed to add a record into "+uri);  
 }  
 }  
  
 @Override  
 public boolean onCreate()  
 {  
  
 sqLiteDatabase=db.getWritableDatabase();  
 if (sqLiteDatabase == null)  
 return false;  
 else  
 return true;  
 }  
  
 @Override  
 public Cursor query(Uri uri, String[] projection, String selection,  
 String[] selectionArgs,String sortOrder)  
 {  
 Cursor c=sqLiteDatabase.query(Database.*TABLE\_NAME*,projection,selection,selectionArgs,null,null,sortOrder);  
 c.setNotificationUri(getContext().getContentResolver(),uri);  
 return c;  
 }  
  
 @Override  
 public int update(Uri uri, ContentValues values, String selection,  
 String[] selectionArgs)  
 {  
 int count=sqLiteDatabase.update(Database.*TABLE\_NAME*,values,selection,selectionArgs);  
 getContext().getContentResolver().notifyChange(uri,null);  
 return count;  
 }  
}

Database

package com.example.studentinfo;  
  
import android.content.Context;  
import android.database.sqlite.SQLiteDatabase;  
import android.database.sqlite.SQLiteOpenHelper;  
  
import androidx.annotation.Nullable;  
  
public class Database extends SQLiteOpenHelper  
{  
  
 static final String *DATABASE\_NAME* = "dbbooks";  
 static final String *TABLE\_NAME* = "tblbooks";  
 static final int *DATABASE\_VERSION* = 1;  
 static final String *CREATE\_DB\_TABLE* = "CREATE TABLE " + *TABLE\_NAME* + "(\_id INTEGER PRIMARY KEY AUTOINCREMENT, isbn TEXT NOT NULL, title TEXT NOT NULL, author TEXT NOT NULL);";  
  
 public Database(@Nullable Context context)  
 {  
 super(context, *DATABASE\_NAME*, null, *DATABASE\_VERSION*);  
 }  
  
 @Override  
 public void onCreate(SQLiteDatabase db)  
 {  
 db.execSQL(*CREATE\_DB\_TABLE*);  
 }  
  
 @Override  
 public void onUpgrade(SQLiteDatabase db, int oldVersion, int newVersion)  
 {  
 db.execSQL("DROP TABLE IF EXISTS " + *TABLE\_NAME*);  
 onCreate(db);  
 }  
}

MainActivity

package com.example.studentinfo;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.content.ContentValues;  
import android.net.Uri;  
import android.os.Bundle;  
  
public class MainActivity extends AppCompatActivity {  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 ContentValues con=new ContentValues();  
 Uri uri=Uri.*parse*("");  
 getContentResolver().insert(uri,con);  
 }  
}