MAD Exercise 5 by Ebenezer Isaac 2020178014

Basic CRUD operations with database

DatabaseHelper.java

```
import android.database.SQLException;
public class DatabaseHelper extends SQLiteOpenHelper {
   public DatabaseHelper(Context context) {
   public void onCreate(SQLiteDatabase db) {
   public void onUpgrade(SQLiteDatabase db, int oldVersion, int newVersion)
```

```
onCreate (db);
String phone, String cgpa, boolean hostel) {
             } catch (SQLException e) {
String city, String phone, String cgpa, boolean hostel) {
          SQLiteDatabase db = this.getWritableDatabase();
            ContentValues contentValues = new ContentValues(); contentValues.put(STUDENT_NAME, name); contentValues.put(STUDENT_EMAIL, email); contentValues.put(STUDENT_CITY, city); contentValues.put(STUDENT_PHONE, phone);
             contentValues.put(STUDENT CGPA, cgpa);
             SQLiteDatabase db = this.getWritableDatabase();
                          new String[]{Integer.toString(id)});
            Cursor res = db.rawQuery("select * from " + TABLE NAME, null);
             res.moveToFirst();
                   temp.add(res.getString(res.getColumnIndex(STUDENT_NAME)));
temp.add(res.getString(res.getColumnIndex(STUDENT_EMAIL)));
temp.add(res.getString(res.getColumnIndex(STUDENT_CITY)));
                   temp.add(res.getString(res.getColumnIndex(STUDENT CGPA)));
```

```
temp.add(res.getString(res.getColumnIndex(STUDENT_PHONE)));
    temp.add(res.getString(res.getColumnIndex(STUDENT_HOSTEL)));
    res.moveToNext();
    array_list.add(temp);
}
res.close();
return array_list;
}
```

MainActivity.java

```
import android.widget.TableLayout;
import android.widget.TableRow;
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        db = new DatabaseHelper(this);
        setContentView(R.layout.activity main);
    public void populateData(View v) {
        if (student_details.size() > 0) {
```

```
public void insertPage(View v) {
   setContentView(R.layout.insert form);
    setContentView(R.layout.activity main);
```

Activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout 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">

<TextView
    android:layout_width="wrap_content"
        android:layout_beight="wrap_content"
        android:layout_beight="wrap_content"
        android:layout_centerHorizontal="true"
        android:text="student Details"
        android:textStyle="bold" />

<LinearLayout
        android:layout_width="match_parent"
        android:layout_beight="wrap_content"
        android:layout_centerHorizontal="true"
        android:layout_centerVertical="true"
        android:layout_marginBottom="125dp"
        android:layout_marginBottom="125dp"
        android:layout_marginBottom="125dp"
        android:layout_marginBottom="125dp"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_he
```

Insert_form.xml

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout 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">

    <LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:gravity="center"
    android:orientation="vertical"
    android:layout_centerWertical="true">

    <EditText
        android:layout_centerVertical="true">

        <EditText
        android:layout_height="50dp"
        android:layout_height="50dp"
        android:ems="10"
        android:inputType="textPersonName"</pre>
```

```
android:ems="10"
   <EditText
</LinearLayout>
```

```
android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentStart="true"
    android:layout_marginStart="20dp"
    android:layout_marginBottom="20dp"
    android:onClick="back"
    android:text="Back" />
    <Button
    android:layout_width="wrap_content"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentEnd="true"
    android:layout_alignParentEottom="true"
    android:layout_marginBottom="20dp"
    android:layout_marginBottom="20dp"
    android:layout_marginBottom="20dp"
    android:layout_marginBottom="20dp"
    android:text="Insert" />
    </RelativeLayout>
```

Screenshot:

