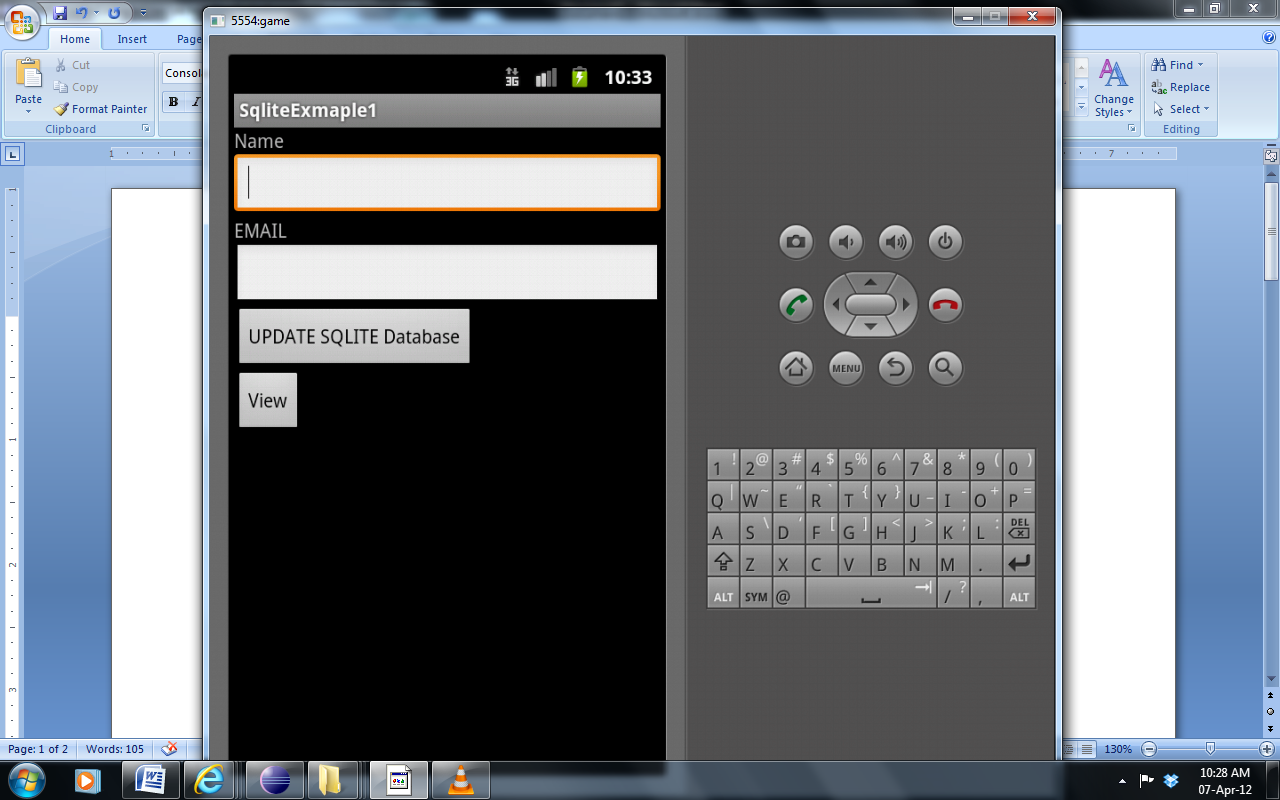
**Activity 9 DATABASES**

****

**Step 1**

**DBAdapter.java**

**package** pk.edu.iba;

**import** android.content.ContentValues;

**import** android.content.Context;

**import** android.database.Cursor;

**import** android.database.SQLException;

**import** android.database.sqlite.SQLiteDatabase;

**import** android.database.sqlite.SQLiteDatabase.CursorFactory;

**import** android.database.sqlite.SQLiteOpenHelper;

**public** **class** DBAdapter {

**public** **static** **final** String *KEY\_ROWID*="id";

**public** **static** **final** String *KEY\_NAME*="name";

**public** **static** **final** String *KEY\_EMAIL*="email";

**private** **static** **final** String *DATABAE\_NAME*="MyDB";

**private** **static** **final** String *DATABASE\_TABLE*="contacts";

**private** **static** **final** **int** *DATABASE\_VERSION*=1;

**private** DBHelper ourHelper;

**private** **final** Context ourContext;

**private** SQLiteDatabase ourDatabase;

**public** DBAdapter(Context c){

ourContext=c;

}

**private** **static** **class** DBHelper **extends** SQLiteOpenHelper{

**public** DBHelper(Context context) {

**super**(context, *DATABAE\_NAME*, **null**,*DATABASE\_VERSION* );

// **TODO** Auto-generated constructor stub

}

@Override

**public** **void** onCreate(SQLiteDatabase db) {

// **TODO** Auto-generated method stub

db.execSQL("CREATE TABLE "+*DATABASE\_TABLE*+" ("+

*KEY\_ROWID*+" INTEGER PRIMARY KEY AUTOINCREMENT, "+

*KEY\_NAME*+" TEXT NOT NULL, "+

*KEY\_EMAIL*+" TEXT NOT NULL);"

);

}

@Override

**public** **void** onUpgrade(SQLiteDatabase db, **int** oldVersion, **int** newVersion) {

// **TODO** Auto-generated method stub

db.execSQL("DROP TABLE IF EXISTS "+*DATABASE\_TABLE*);

}

}

**public** DBAdapter Open() **throws** SQLException

{

ourHelper =**new** DBHelper(ourContext);

ourDatabase=ourHelper.getWritableDatabase();

**return** **this**;

}

**public** **void** Close(){

ourHelper.close();

}

**public** **long** CreateEntry(String name, String email) {

// **TODO** Auto-generated method stub

ContentValues cv=**new** ContentValues();

cv.put(*KEY\_NAME*, name);

cv.put(*KEY\_EMAIL*, email);

**return** ourDatabase.insert(*DATABASE\_TABLE*,**null**,cv);

}

**public** String GetData() {

// **TODO** Auto-generated method stub

String[] columns=**new** String[]{*KEY\_ROWID*,*KEY\_NAME*,*KEY\_EMAIL*};

Cursor c=ourDatabase.query(*DATABASE\_TABLE*, columns, **null**, **null**,**null**, **null**,**null**);

String result="";

**int** iRow=c.getColumnIndex(*KEY\_ROWID*);

**int** iName=c.getColumnIndex(*KEY\_NAME*);

**int** iEmail=c.getColumnIndex(*KEY\_EMAIL*);

**for**(c.moveToFirst();!c.isAfterLast();c.moveToNext()){

result=result+c.getString(iRow)+" "+c.getString(iName)+" "+c.getString(iEmail)+ "\n";

}

**return** result;

}

}

**Setp2**

m**ain.xml**

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

<LinearLayout xmlns:android=*"http://schemas.android.com/apk/res/android"*

android:layout\_width=*"fill\_parent"*

android:layout\_height=*"fill\_parent"*

android:orientation=*"vertical"* >

<TextView

android:id=*"@+id/textView1"*

android:layout\_width=*"wrap\_content"*

android:layout\_height=*"wrap\_content"*

android:text=*"Name"* />

<EditText

android:id=*"@+id/etSQLName"*

android:layout\_width=*"match\_parent"*

android:layout\_height=*"wrap\_content"* >

<requestFocus />

</EditText>

<TextView

android:id=*"@+id/textView2"*

android:layout\_width=*"wrap\_content"*

android:layout\_height=*"wrap\_content"*

android:text=*"EMAIL"* />

<EditText

android:id=*"@+id/etSQLEmail"*

android:layout\_width=*"match\_parent"*

android:layout\_height=*"wrap\_content"* />

<Button

android:id=*"@+id/bSQLUpdate"*

android:layout\_width=*"wrap\_content"*

android:layout\_height=*"wrap\_content"*

android:text=*"UPDATE SQLITE Database"* />

<Button

android:id=*"@+id/bSQLOpenView"*

android:layout\_width=*"wrap\_content"*

android:layout\_height=*"wrap\_content"*

android:text=*"View"* />

</LinearLayout>

**SqliteExmaple1Activity.java**

**package** pk.edu.iba;

**import** android.app.Activity;

**import** android.app.Dialog;

**import** android.content.Intent;

**import** android.os.Bundle;

**import** android.view.View;

**import** android.view.View.OnClickListener;

**import** android.widget.Button;

**import** android.widget.EditText;

**import** android.widget.TextView;

**public** **class** SqlliteExample2 **extends** Activity **implements** OnClickListener {

/\*\* Called when the activity is first created. \*/

Button btnUpdate,btnDatabase;

EditText txtName,txtEmail;

@Override

**public** **void** onCreate(Bundle savedInstanceState) {

**super**.onCreate(savedInstanceState);

setContentView(R.layout.*main*);

btnUpdate =(Button)findViewById(R.id.*btnUpDate*);

btnDatabase =(Button)findViewById(R.id.*btnShowDatabase*);

txtName=(EditText)findViewById(R.id.*txtName*);

txtEmail=(EditText)findViewById(R.id.*txtEmail*);

btnUpdate.setOnClickListener(**this**);

btnDatabase.setOnClickListener(**this**);

}

**public** **void** onClick(View v) {

// **TODO** Auto-generated method stub

**switch** (v.getId()){

**case**(R.id.*btnUpDate*):

Boolean didItWork=**true**;

**try**{

String name=txtName.getText().toString();

String email=txtEmail.getText().toString();

DBAdapter entry=**new** DBAdapter(SqlliteExample2.**this**);

entry.Open();

entry.CreateEntry(name,email);

entry.Close();

}**catch**(Exception e) {

didItWork=**false**;

}**finally**{

**if** (didItWork){

Dialog dg=**new** Dialog(**this**);

dg.setTitle("IBA DATABASE");

TextView tv=**new** TextView(**this**);

tv.setText("SUCCESS");

dg.setContentView(tv);

dg.show();

}

}

**break**;

**case**(R.id.*btnShowDatabase*):

Intent i=**new** Intent("iba.edu.pk.SQLVIEW");

startActivity(i);

**break**;

}

}

}

**View.xml**

**package** pk.edu.iba;

**import** android.app.Activity;

**import** android.app.Dialog;

**import** android.content.Intent;

**import** android.os.Bundle;

**import** android.view.View;

**import** android.view.View.OnClickListener;

**import** android.widget.Button;

**import** android.widget.EditText;

**import** android.widget.TextView;

**public** **class** SqlliteExample2 **extends** Activity **implements** OnClickListener {

/\*\* Called when the activity is first created. \*/

Button btnUpdate,btnDatabase;

EditText txtName,txtEmail;

@Override

**public** **void** onCreate(Bundle savedInstanceState) {

**super**.onCreate(savedInstanceState);

setContentView(R.layout.*main*);

btnUpdate =(Button)findViewById(R.id.*btnUpDate*);

btnDatabase =(Button)findViewById(R.id.*btnShowDatabase*);

txtName=(EditText)findViewById(R.id.*txtName*);

txtEmail=(EditText)findViewById(R.id.*txtEmail*);

btnUpdate.setOnClickListener(**this**);

btnDatabase.setOnClickListener(**this**);

}

**public** **void** onClick(View v) {

// **TODO** Auto-generated method stub

**switch** (v.getId()){

**case**(R.id.*btnUpDate*):

Boolean didItWork=**true**;

**try**{

String name=txtName.getText().toString();

String email=txtEmail.getText().toString();

DBAdapter entry=**new** DBAdapter(SqlliteExample2.**this**);

entry.Open();

entry.CreateEntry(name,email);

entry.Close();

}**catch**(Exception e) {

didItWork=**false**;

}**finally**{

**if** (didItWork){

Dialog dg=**new** Dialog(**this**);

dg.setTitle("IBA DATABASE");

TextView tv=**new** TextView(**this**);

tv.setText("SUCCESS");

dg.setContentView(tv);

dg.show();

}

}

**break**;

**case**(R.id.*btnShowDatabase*):

Intent i=**new** Intent("iba.edu.pk.SQLVIEW");

startActivity(i);

**break**;

}

}

}

SqlView.java

**package** pk.edu.iba;

**import** android.app.Activity;

**import** android.os.Bundle;

**import** android.widget.TextView;

**public** **class** SqlView **extends** Activity {

@Override

**protected** **void** onCreate(Bundle savedInstanceState) {

// **TODO** Auto-generated method stub

**super**.onCreate(savedInstanceState);

setContentView(R.layout.*view*);

TextView tv=(TextView)findViewById(R.id.*tvSQLinfo*);

DBAdapter info=**new** DBAdapter(**this**);

info.Open();

String data=info.GetData();

info.Close();

tv.setText(data);

}

}

**SqlliteExmaple2Manifest.xml**

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

<manifest xmlns:android=*"http://schemas.android.com/apk/res/android"*

package=*"pk.edu.iba"*

android:versionCode=*"1"*

android:versionName=*"1.0"* >

<uses-sdk android:minSdkVersion=*"10"* />

<application

android:icon=*"@drawable/ic\_launcher"*

android:label=*"@string/app\_name"* >

<activity

android:name=*".SqlliteExample2"*

android:label=*"@string/app\_name"* >

<intent-filter>

<action android:name=*"android.intent.action.MAIN"* />

<category android:name=*"android.intent.category.LAUNCHER"* />

</intent-filter>

</activity>

<activity android:name=*"SqlView"*>

<intent-filter>

<action android:name=*"iba.edu.pk.SQLVIEW"*/>

<category android:name=*"android.intent.category.DEFAULT"*/>

</intent-filter>

</activity>

</application>

</manifest>