Andy Ni

Assignment 5

COMP 3710

Database Design

public static final String *DATABASE\_NAME* = "Trans.db";  
public static final String *TABLE\_NAME* = "transaction\_table";  
public static final String *COL\_1* = "ID";  
public static final String *COL\_2* = "DATE";  
public static final String *COL\_3* = "AMOUNT";  
public static final String *COL\_4* = "CATEGORY";  
  
public DataBaseHelper(Context context) {  
 super(context, *DATABASE\_NAME*, null, 1);  
}  
  
@Override  
public void onCreate(SQLiteDatabase db) {  
 String CREATE\_TABLE = "CREATE TABLE " + *TABLE\_NAME* + " (" + *COL\_1* + " INTEGER PRIMARY KEY AUTOINCREMENT, "  
 + *COL\_2* + " TEXT, "  
 + *COL\_3* + " REAL, "  
 + *COL\_4* + " TEXT)";  
  
 db.execSQL(CREATE\_TABLE);  
  
  
  
}

CREATE TABLE transaction\_table (

"ID" INTEGER NOT NULL PRIMARY KEY,

"DATE" TEXT NOT NULL,

"AMOUNT" TEXT NOT NULL,

"CATEGORY" REAL NOT NULL

);

Used this function to insert into table

public boolean insertData(String date,double amount,String category) {  
 SQLiteDatabase db = this.getWritableDatabase();  
 ContentValues contentValues = new ContentValues();  
 contentValues.put(*COL\_2*,date);  
 contentValues.put(*COL\_3*,amount);  
 contentValues.put(*COL\_4*,category);  
 long result = db.insert(*TABLE\_NAME*,null ,contentValues);  
 if(result == -1)  
 return false;  
 else  
 return true;  
}

Used bottom two functions to load table at start up

public Cursor getAllData() {  
 SQLiteDatabase db = this.getWritableDatabase();  
 Cursor res = db.rawQuery("select \* from "+*TABLE\_NAME*,null);  
 return res;  
}

public void loadTable() {  
 Cursor res = myDB.getAllData();  
 if (res.getCount() == 0) {  
 Log.*i*("Database Empty", "Database has no records");  
 return;  
 }  
  
 while (res.moveToNext()) {  
 View myView = layoutInflater.inflate(R.layout.*table\_row*, null, false);  
  
 TextView textDate = myView.findViewById(R.id.*txtTableDate*);  
 TextView textAmount = myView.findViewById(R.id.*txtTableAmount*);  
 TextView textCategory = myView.findViewById(R.id.*txtTableCategory*);  
  
 double cost = res.getDouble(2);  
 balance += cost;  
 String costS = *df2*.format(cost);  
  
 textDate.setText(res.getString(1));  
 textAmount.setText(costS);  
 textCategory.setText(res.getString(3));  
 transTable.addView(myView);  
  
 }  
  
 tBalance.setText(*df2*.format(balance));  
  
}