**Student Database App**

Design an activity to allow the user add, find and delete the following data :

* Student ID
* Student name
* Age
* Result (eg Pass, Merit, Distinction)

**Student Class**

**public class** Student {

 **private int \_id**;
 **private** String **\_studentname**;
 **private int \_age**;
 **private** String **\_result**;

 **public** Student() {
 }
 **public** Student(**int** id, String studentname, **int** age, String result) {
 **this**.**\_id** = id;
 **this**.**\_studentname** = studentname;
 **this**.**\_age** = age;
 **this**.**\_result** =result;
 }
 **public** Student(String studentname, **int** age, String result) {
 **this**.**\_studentname** = studentname;
 **this**.**\_age** = age;
 **this**.**\_result** = result;
 }
 **public void** setID(**int** id) {
 **this**.**\_id** = id;
 }
 **public int** getID() {
 **return this**.**\_id**;
 }
 **public void** setStudentName(String studentname) {
 **this**.**\_studentname** = studentname;
 }
 **public** String getStudentName() {
 **return this**.**\_studentname**;
 }
 **public void** setAge(**int** age) {
 **this**.**\_age** = age;
 }
 **public int** getAge() {
 **return this**.**\_age**;
 }

 **public void** setResult(String result) {
 **this**.**\_result** = result;
 }
 **public** String getResult() {
 **return this**.**\_result**;
 }

}

**MySQLDb Class**

**package** com.raymundoconnor.studentdbapp;

**import** android.content.ContentValues;
**import** android.content.Context;
**import** android.database.Cursor;
**import** android.database.sqlite.SQLiteDatabase;
**import** android.database.sqlite.SQLiteOpenHelper;

**public class** MySQLDb **extends** SQLiteOpenHelper {

 *// when you type SQLiteOpenHelper as above you must import the onCreate, onUpgrade methods* **private static final int *DATABASE\_VERSION*** = 1;
 **private static final** String ***DATABASE\_NAME*** = **"studentDB.db"**;
 **private static final** String ***TABLE\_STUDENTS*** = **"students"**;

 **public static final** String ***COLUMN\_ID*** = **"\_id"**;
 **public static final** String ***COLUMN\_STUDENTNAME*** = **"studentname"**;
 **public static final** String ***COLUMN\_Age*** = **"age"**;
 **public static final** String ***COLUMN\_Result*** = **"result"**;

 **public** MySQLDb(Context context, String name,
 SQLiteDatabase.CursorFactory factory, **int** version) {
 **super**(context, ***DATABASE\_NAME***, factory, ***DATABASE\_VERSION***);
 }

 @Override
 **public void** onCreate(SQLiteDatabase db) {
 String CREATE\_STUDENTS\_TABLE = **"CREATE TABLE "** +
 ***TABLE\_STUDENTS*** + **"("** + ***COLUMN\_ID*** + **" INTEGER PRIMARY KEY,"** + ***COLUMN\_STUDENTNAME*** + **" TEXT,"** + ***COLUMN\_Age*** + **" INTEGER"** + ***COLUMN\_Result*** + **" ,TEXT"** + **")"**;
 db.execSQL(CREATE\_STUDENTS\_TABLE);
 }

 @Override
 **public void** onUpgrade(SQLiteDatabase db, **int** oldVersion, **int** newVersion) {
 db.execSQL(**"DROP TABLE IF EXISTS "** + ***TABLE\_STUDENTS***);
 onCreate(db);
 }

 **public void** addStudent(Student student) {
 ContentValues values = **new** ContentValues();
 values.put(***COLUMN\_STUDENTNAME***, student.getStudentName());
 values.put(***COLUMN\_Age***, student.getAge());
 values.put(***COLUMN\_Result***, student.getResult());
 SQLiteDatabase db = **this**.getWritableDatabase();
 db.insert(***TABLE\_STUDENTS***, **null**, values);
 db.close();
 }

 **public** Student findStudent(String studentname) {
 String query = **"Select \* FROM "** + ***TABLE\_STUDENTS*** + **" WHERE "** + ***COLUMN\_STUDENTNAME*** + **" = \""** + studentname + **"\""**;
 SQLiteDatabase db = **this**.getWritableDatabase();
 Cursor cursor = db.rawQuery(query, **null**);
 Student product = **new** Student();
 **if** (cursor.moveToFirst()) {
 cursor.moveToFirst();
 product.setID(Integer.*parseInt*(cursor.getString(0)));
 product.setProductName(cursor.getString(1));
 product.setQuantity(Integer.*parseInt*(cursor.getString(2)));
 cursor.close();
 } **else** {
 product = **null**;
 }
 db.close();
 **return** product;
 }

 **public boolean** deleteStudent(String studentname) {
 **boolean** result = **false**;
 String query = **"Select \* FROM "** + ***TABLE\_STUDENTS*** + **" WHERE "** + ***COLUMN\_STUDENTNAME*** + **" = \""** + studentname + **"\""**;
 SQLiteDatabase db = **this**.getWritableDatabase();
 Cursor cursor = db.rawQuery(query, **null**);
 Student student = **new** Student();
 **if** (cursor.moveToFirst()) {
 student.setID(Integer.*parseInt*(cursor.getString(0)));
 db.delete(***TABLE\_STUDENTS***, ***COLUMN\_ID*** + **" = ?"**,
 **new** String[] { String.*valueOf*(student.getID()) });
 cursor.close();
 result = **true**;
 }
 db.close();
 **return** result;
 }
}