**Exercise on SQLite and Firebase**

**SQLite**

We consider a table *student* with 2 attributes *id* and *name.* **We consider the *query* and *insert* methods of the class *SQLiteDatabase*** (<https://developer.android.com/reference/android/database/sqlite/SQLiteDatabase.html>).

Rename this file into LastNameFirstNameAndroidSQLiteExercise.docx and push it (with the answers) at the root of your GitHub repository for the course.

*IN THE QUESTIONS BELOW, DO NOT USE SQL BUT USE THE PARSE METHOD THAT IS PROVIDED IN JAVA.*

1. How do you write select \* from student using the provided *query* method?

StudentDatabaseHelper dbHelper = new StudentDatabaseHelper(this.getActivity());

SQLiteDatabase db = dbHelper.getWritableDatabase();

String tablename = “student”;

db.query(tablename,null,null,null,null,null,null);

1. How do you write select name from student using the provided *query* method?

StudentDatabaseHelper dbHelper = new StudentDatabaseHelper(this.getActivity());

SQLiteDatabase db = dbHelper.getWritableDatabase();

String tablename = “student”;

String[] tablecolumns = new String[] {“name”};

db.query(tablename,tablecolumns,null,null,null,null,null);

1. How do you write select \* from student where name = ‘Smith’ using the provided *query* method?

StudentDatabaseHelper dbHelper = new StudentDatabaseHelper(this.getActivity());

SQLiteDatabase db = dbHelper.getWritableDatabase();

String tablename = “student”;

String[] tablecolumns = new String[] {“name”};

String whereClause = “name = ?”;

String[] whereArgs = new String[] {“Smith”};

db.query(tablename,tablecolumns,whereClause,whereArgs,null,null,null);

1. How do you write insert into student(id,name) values (10,’John’)?

StudentDatabaseHelper dbHelper = new StudentDatabaseHelper(this.getActivity());

SQLiteDatabase db = dbHelper.getWritableDatabase();

ContentValues values = new ContentValues();

String column1 = “id”;

String column2 = “name”;

int value1 = 10;

String value2 = “John”;

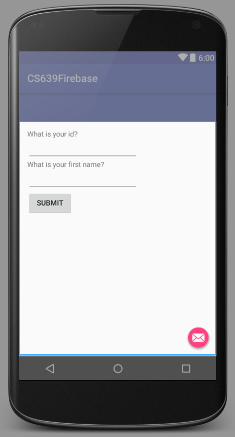
values.put(column1,value1);

values.put(column2,value2);

long insert = db.insert(student,null,values);

**Firebase**

Create an application called *FirebaseStudent* that will save the id and first name of a person in a Firebase database when we press *Submit.*





In addition to the project to be pushed in GitHub, push a screenshot of the real time database with data related to your name (see above). We want to be able to see the name of the database and the data.