**CS 639**

**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 CS6392016 in GitHub.

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

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

SQLiteDatabase db = dbHelper.getWritableDatabase();

db.query(“student”, null, null, null, null, null, null);  
this.startManagingCursor(cur);  
cur.moveToFirst();  
while (!cur.isAfterLast()) {  
 Log.i(“All students ”, cur.getString(0) + “ “ + cur.getString(1));  
 cur.moveToNext();  
}

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

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

SQLiteDatabase db = dbHelper.getWritableDatabase();

db.execSQL(“INSERT INTO student(name) VALUES (‘Joe’)”);

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();

db.query(“student”, null, “name=’Smith’”, null, null, null, null);  
this.getActivity().startManagingCursor(cur);  
cur.moveToFirst();  
while (!cur.isAfterLast()){  
 Log.i(“Smith student “, cur.getString(0));  
 cur.moveToNext();  
}  
cur.close();

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

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

SQLiteDatabase db = dbHelper.getWritableDatabase();

Db.execSQL(“INSERT INTO student(id,name) VALUES (10, ‘John’)”);

**Firebase**

Create an application (CS639Firebase) that will save the id and first name of a person in a Firebase database when we press *Submit.*

You can follow the videos below:

<https://www.youtube.com/watch?v=2FRBDXBs30Y>

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