Sprint 2

# Summary

You created a source database and loaded it with data and made sense of it. Congratulations! Now is time to provide some value added to your users by creating an operational report on top of the source database.

# Requirements

Your architect is asking you to build a report to allow users to view the schedules for a bus passing at a bus station. Users would be able to select the bus number, the direction, and the stop number and get the schedule for the bus for that specific date.

You architect is saying that since the report is operational, it should source its data from the STM\_SRC database that you created.

# Provided documentation and artifacts

* A report requirement document, in form of a mock-up (Sample Report.pdf)
* A full database backup of STM\_SRC (in case you didn’t complete sprint 1) available here: <https://www.dropbox.com/s/62eklwru9lm9aja/STM_SRC.bak>

# Expected deliverables

* A SSRS report providing the schedule for a bus, a stop in a specific day. The report should have:
  + A bus number parameter (45, 121, 61…)
  + A direction parameter (north, south, east, west)
  + A date parameter, defaults to the day the report is ran
  + The report should contain all the times (hh:mm) the bus passes to the station. Ideally presented as the mock-up example (first column is the hours, other columns are the minutes).
  + Optional: different sections for morning, evening, and day

# Advice and hints

* You’ll have to tap into your SQL knowledge to write a good query.
* Conversion is your friend. You’ll have to convert a lot of values since everything is varchar. You can either convert in the report or in the SQL query.
* Read the chapters about row groups and columns groups.
* Make your parameters smart. A north-south bus line shouldn’t have east and west as available choices for the direction parameter.
* Always focus on building the core functionality first, then the fluff that’s around. For this case, the central table should be the core functionality. Don’t hesitate to build something completely hard coded than, once you get the idea, make it dynamic.