Sprint 4

# Summary

Finally… The last sprint… You’ll take everything you did so far and make it to a beautiful and productive end.

# Requirements

You have to build an OLAP cube based on the star schema that you built and loaded. In addition to that you’ll build some Excel reports that will help the end users have a deeper understanding of the traffic of the buses in the city.

# Provided documentation and artifacts

* The set of ETLs and star schema you built in the previous sprint

# Expected deliverables

* An OLAP database named STM with the following:
  + A cube named StopTimes
  + The cube will have a date dimension with a Year-Month-Day Hierarchy
  + The cube will have a bus dimension with the following attributes:
    - Code
    - Name
    - Orientation
    - Direction
  + The cube will have a stop dimension with the following attributes
    - Code
    - Name
    - PostalCode
    - District
    - City-District-PostalCode hierarchy
  + The cube will have one measure groups with a count (count of rows) to be used as a measure of traffic
* A PowerPivot Report capable of producing the number of bus stops by[[1]](#footnote-1):
  + District
  + Postal Code
  + Time of the day
* A PowerPivot Report that is a bar chart with the following characteristics:
  + X axis represents the time of the day 8AM, 9AM, 10AM, 11AM…
  + Y axis represents the number of bus stops (from the fact table)
  + The report should be filtered by postal code and district

# Advice and hints

* Go back to the SSAS lectures.

1. Everything listed below should be a slicer [↑](#footnote-ref-1)