## Lab 8 – Mini-project

## Background

In lab 3 you ingested several datasets from the AdventureWorks GitHub repository "as-is" – the files you copied to the data lake were tab-separated and contained no column headers or types. A result of this was that in lab 4 you had to add column metadata to the data flow yourself, in a way that cannot be reused elsewhere.

A better solution would be to convert the files into Parquet or Delta format, persisting metadata permanently in each dataset while benefiting from more space-efficient storage. Doing this is the purpose of this mini-project.

## The requirement

Your task is to:

- Extract ten specific AdventureWorks datasets from the GitHub repository.
- Store each dataset in the data lake, in Parquet or Delta format, including real column names and data types.
- If ingesting a dataset fails, send an appropriate notification.

The ten datasets are identified in a file called **TableCatalog.json**, available online at https://tinyurl.com/38334wsc.

## What you need to do

- Produce an outline design sketch.
- Implement as much of your design as you can.
- Be prepared to talk about your design and the pipeline(s) you've built if you haven't had time to get everything working, you'll be able to use the design sketch to explain where you were going.



