# Case Study Task: Part 1 – OLAP Database Design

## Instructions

1. Review the dataset “*Sample - Superstore.xls”* and analyse the data items listed.
2. Identify the data entities present.
3. Optional – You may wish to first design a **normalised** OLTP logical data model of the data showing:

* Entities
* Primary Keys
* Foreign Keys
* Attributes
* Cardinality

Alternatively, go straight to Step 4 if you feel confident in designing an OLAP schema from scratch.

1. Using the normalised data model from step 3 convert it to an OLAP data model.
   * Identify the dimensions
     + Consider what additional dimension you will need that may not be obvious from the dataset
   * Identify the fact table
   * Consider whether you will use a snowflake or a star schema for your design
2. Identify the attributes for each entity.
   * Don’t forget your Create and Update Timestamps for each entity
3. Identify the primary and foreign keys.
4. Define the level of granularity of the model.
5. Identify any hierarchies in the data if they exist.