**Progress report for CS4224D:**

Team members: Chen Xing (E0949131), Chin Wee Nie (E0925485), Jan Alfenson Tan (E0543952), Liu Jiahui (E0983304), Liu Keyi (E1132309)

1. Allocated tasks for each member:

* Chen Xing (E0949131)
  + Citus data modelling (data\_modelling.sql), import data from CSV files (import\_data.sql), main driver program (citus\_app.py)
  + Functions for transaction 1,2,5,6
* Chin Wee Nie (E0925485)
* prepare startup.cql, load\_data.cql, initialize\_csv\_files.py , app.py
* in charge of data modelling for transaction 2, 4 and 7.
* Jan Alfenson Tan (E0543952)
  + Install and configure Cassandra on compute nodes.
  + Data modelling and functions for transactions 3 and 8.
* Liu Jiahui (E0983304)
  + Data modelling and functions for transactions 1,5 and 6.
* Liu Keyi (E1132309)
  + Citus data modelling (data\_modelling.sql), import data from CSV files (import\_data.sql), main driver program (citus\_app.py)
  + Functions for transaction 3,4,7,8

1. Cassandra implementation:
2. Completed tasks:

* Configuration of Cassandra on compute nodes
* Preparation of startup.cql, load\_data.cql, initialize\_csv\_files.py, app.py, data modeling for transaction 2
* Data processing for transaction 3 and 8 + cql commands to initialize + load data into Cassandra clusters
* Data modeling and transaction function for 5

1. In-progress tasks:

* Data modeling for transaction 4 and 7
* Functions for evaluation for transaction 3 and 8
* Data modeling and transaction function for 6

1. Citus implementation:
2. Completed tasks:

* Setup Citus in different compute nodes
* Load CSV files into database
* Functions for transaction 2, 5 (citus\_process\_xact.py)

1. In-progress tasks:

* Main driver program citus\_app,py
* Functions for transaction 1,3,4,6,7,8
* Benchmarking program citus\_benchmark.py