

Progress report for CS4224D:

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a) 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

b) Cassandra implementation:

i) 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

ii) 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

c) Citus implementation:

i) Completed tasks:

- Setup Citus in different compute nodes
- Load CSV files into database
- Functions for transaction 2, 5 (citus_process_xact.py)

ii) In-progress tasks:

- Main driver program citus_app.py
- Functions for transaction 1,3,4,6,7,8
- Benchmarking program citus_benchmark.py