Map Reduce Lab

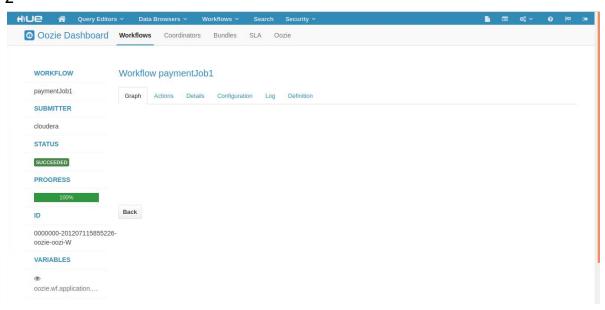
Haaniyah Muhammad Mundia 14804

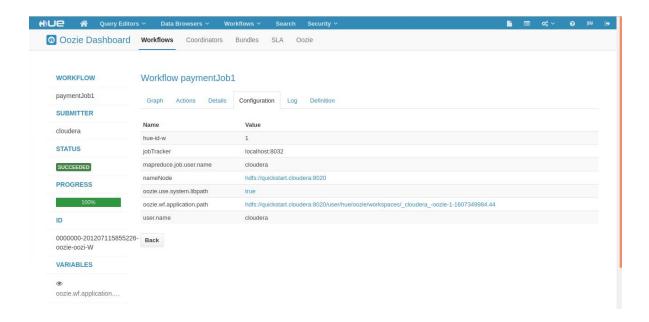
MR Task 1: Payment Job

1-

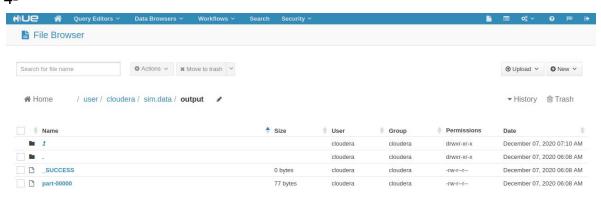
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Job Design (stre	aming type)									
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Description	Payment Type Frequency									
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Reducer	Ausr/bin/python reducer_freq.py									
Hadoop job properties	Property name		Value							
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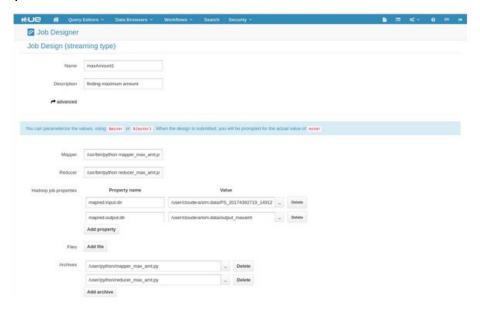
4-



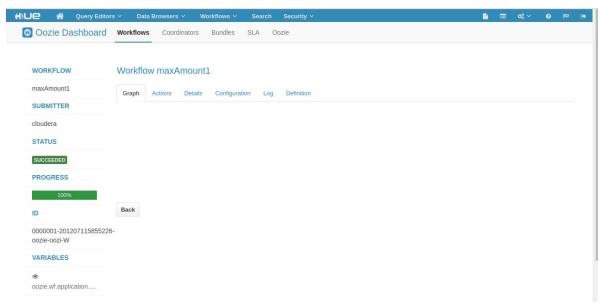
5- Output

MR Task 2: Maximum Amount

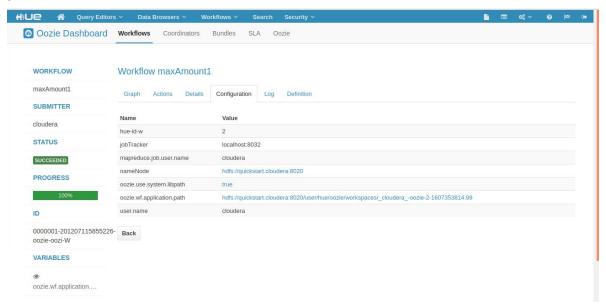
1-



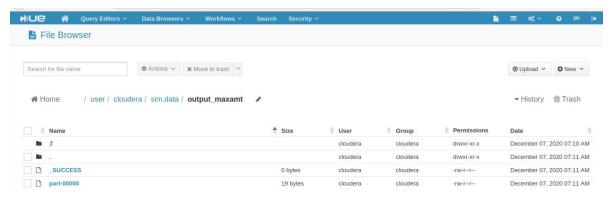
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3-



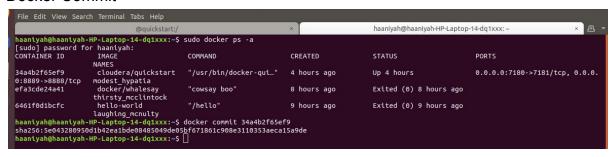
4-



5- Output



Docker Commit



Shuffling:

The process of transferring data from the mapper to the reducer is known as shuffling. In simpler terms, the mapper processes and sorts the data as mapper output to feed it into the reducer as input. Example, to anonymize a dataset of employee information and then randomly shuffling the records within the dataset. Here the mapper code first removes the first and last name of the employee to attain data anonymity and then shuffles by assigning the key to a random number.

Sorting:

Values passed to the sorter are not sorted. Sorting map reduce jobs helps reducer to distinguish when a new job starts. Example, to sort the data of employees with respect to their salary. The mapper fetches employees according to their salary and the reducer in the sort phase, sorts the keys and outputs the results.