

Introduction

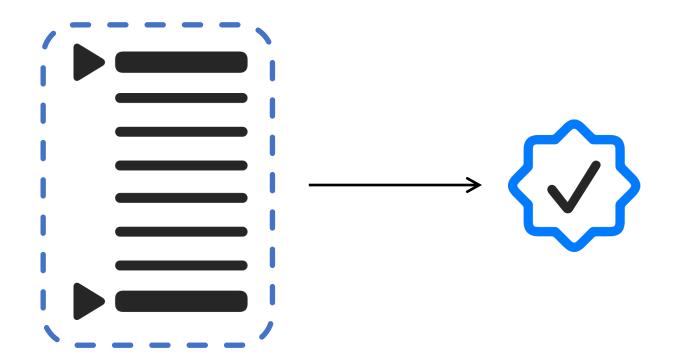
Scene

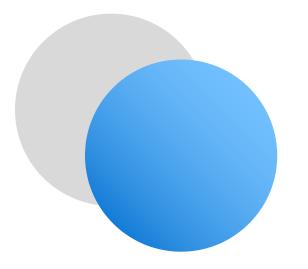
- A retail chain operates multiple stores.
- Each store records every transaction in a month and only provides this raw file to the company for the sake of transparency.
- The company is interested in the **total sales** for each store and the store with the highest sales.
- The operation of reading files and calculating will take a long time.



Solution

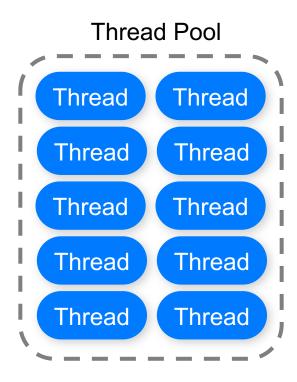
- Introduce concurrency.
- Establish a thread pool with 10 threads.
- Every thread operates a part of the task (10% of total) at the same time.
- The result of each thread would be collected and move on to the next step after every thread finished their work.



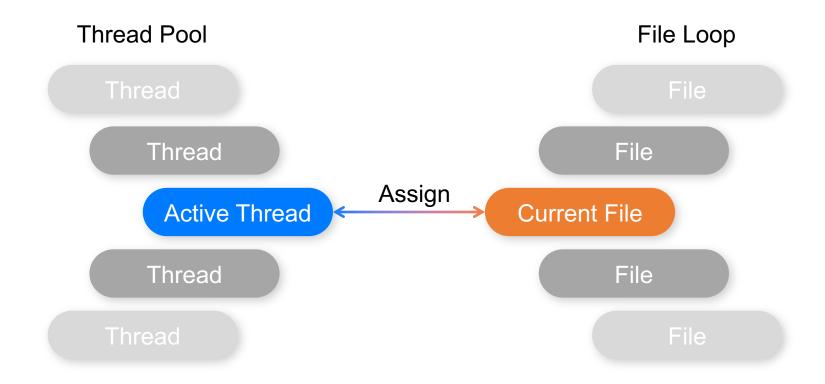


Code Description

Code

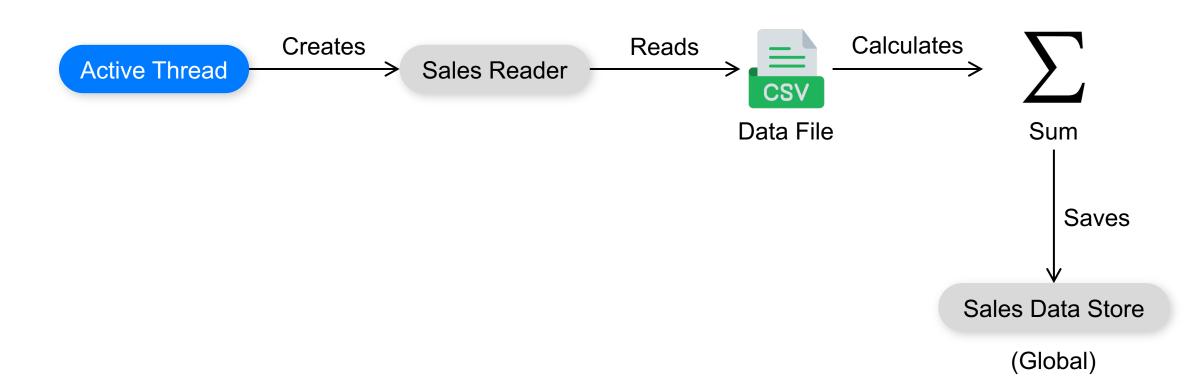




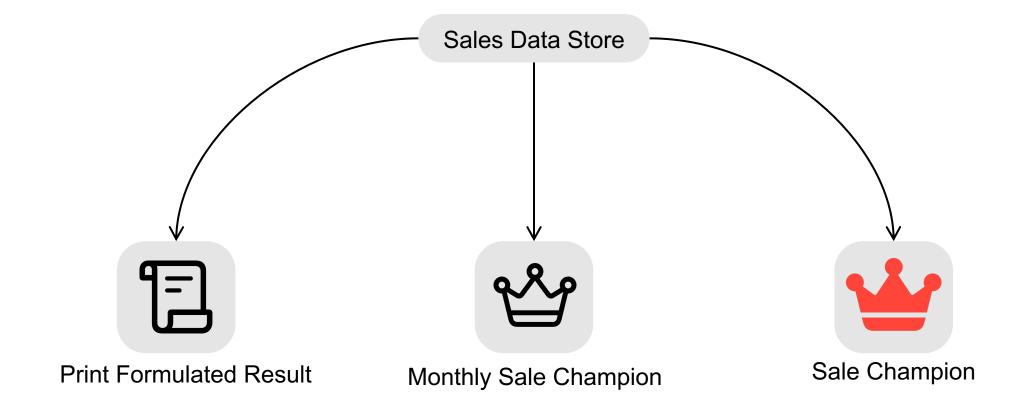


When a thread finishes its job, a new file will be assigned.

Code







Demo Time!