In present, in-memory data processing is becoming more popular due to examine a huge amount of information in shorter duration of time. Previously all servers utilize their own particular memory which is time consuming. To resolve this problem by using distributed cache, servers using cache memory for storing and retrieving data frequently. In present Big data processing, in-memory enumerate has become famous due to increase capacity and high throughput of main memory. Both relational and NoSQL databases are in-memory database that provides different mechanism for data storage and retrieval. In this paper, they make use of an in-memory key-value data storage system is Redis which works on a large data. Also, Redis server makes use of cache memory for increasing scalability and high throughput of main memory. Redis database helps in getting data from applications more frequently which improves the system performance as compared to relational database.

References


Index Terms

Computer Science

Databases
Keywords

Key-Value Stores, Redis, Document Stores, Column-Family Stores, Graph databases.