Big Data Analytics Unit 3.1

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Abstract

Explain how my program could work in a distributed environment and its limitations.

Key-value programs are very important in company settings. They can be used to control everything from inventory to manage employee databases. Keeping these lists updated and connected is really the only way that they work properly. Keeping parts of these dictionary spread throughout the company ensures that everyone that can access them gets the most updated information at any time.

Keeping any database updated is always going to be a challenge. The easiest way to ensure that any database does get updated is to spread the overall information across different places. Doing so ensures that anytime someone accesses it in any location it gets updated immediately. By leaving the information for the database on a network it allows for the fastest data travel because it will always be updated and maintained

This type of database doesn’t really have a top end limit because you can always split the data by creating essentially subkeys that can hold parts of the overall information of a key allowing your data to stay together but also to allow it to grow. As each key gets broken down into different subkeys it allows for faster searching of the database allowing things to keep getting updated more quickly as well. These sub keys can be as simply as pulling an employee list and updating the key from employee to their specific sub section so that all employees within that section are in the subkey.

Resources