

Assignment B4

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Title: Map reduce operation with suitable example using MongoDB.

Problem : Write an eg. of Map reduce Statement using MongoDB.

Objective:

- To understand concept of map-reduce as data processing paradigm for condensing large volumes of data into useful aggregated results.

Requirements:
MongoDB, PC

Theory:

- Map Reduce: Map reduce is a powerful and flexible tool for aggregating data.
- It can solve problems that are too complex to express using the aggregation frameworks query language.
- It uses js as its query language.
- It is fairly slow and should not be used for real time analysis.

- Map reduce can be easily parallelized across multiple sources.

3 Map phase:

Map an operation onto every document in a collection. That operation can be either "do nothing" or "emit these keys with x values".

Intermediate & stage:

Keys are grouped and lists of emitted values are created for each key.

Reduce phase:

Takes this list of values and reduces it to a single element.

This element is returned to the shuffle step until each key has a list containing a single value: result.

Conclusion:

We have successfully understood & implemented map reduce operations.