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dat Attignment 2

Om: Execute any 10 queries on suitable sample Mongoob database to demonstrate various query criteria

→ Jo study and execute Mongo DB Indexes. → Jo study and execute Aggregate framework of Mongo DB

Theory

Explain different aggregation pipeline operator with example

1 Stage operator

· \$ project: Passes along documents with and specified fields to next stage in pipeline

· F match: Filters documents based on materials of specified conditions to next pipeline stage

· I group: groups document by some specific expression of groups documents for distinct grouping id fields contains distinct group by key.

2) Set operators:

- 2) Set operators.

 \$set equals: compares between two/more areas and return true if some distinct element the false.

 \$ set inforantion: \$ set Union \$ set difference some
- as set operations
- · \$ set subset: reherns true when first array is subset of seand or even if first array equals second

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\rightarrow	Explain type of indices in Mongo DB
	1) Single field: use to create ender on the single field
	2) Compound Index: MongoBB supports userdefined inde
	31 Multikey Index: Mongo DB uses the multikey index index the values sorted in array. 41 Geospatial index: Supports 20 & 2D sphere index
	2.0 uses planer geomatery where as other uses
	5) Text Index: supports searching of String content in collection
	Supert: Sample Collection
	Output: Execution of all Commands
	Platform: Windows.
	Conclusion: Successfully performed the experiment
	C_{MO}
	FAQS
1	which pipeline operator is simulat similar to where and having in Mongo DB

where ~ \$where

having ~ \$ group < criterie >

\$ then \$ match < criteria >

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2 How to know which indices are defined over a collection?

Use: db. collection, get indexes () method to Know index defined

3 what is the application of Junwind in Mongo DB?

Used to deconstruct an array field in a document and create separate output document for each items in array.