Learn MongoBB

MorgoDB -> NoSBL -> Not Only Structured Query Langue Document -> Group of field-value pairs, represents object collection -> one or more documents.

database -> group of collections.

mongodo shell -> morgosh.

Chapters

- 1. Databases
- 2, Irrest
- 3. Datatypes
- 4. Sosting & limiting
- 5. find
- 6. update
- 7. delete
- 8. comparision operators
- 9. indexes
- 10. collections.

show dbg - used to show all the databases use school < db-name> -> creates database if no database if no database with < db-name> exists, and switches to that database.

db. create Collection (collection_name) -> creates a new collection with the name in the database used.

clb.dropDatabase() -> deletes the particular database
that the shell presently exist.

db. collection. insert One() -> The data with no posticular structure can be added or inserted into the collection. The structure into the collection. The structure used is in json: ?z:" ", y:" "}.

db, collection. find() -> displays all the documents within the pasticular collection.

db. collection. insert Harry () -> inserts irrorse than one document at once. The format used is as below.

[5 2.9. 3.9 3, - 2 8]

Datatypes in Morgado.

String: series of text within quotes. Integer: whole numbers.

Double: number with a decimal postion. boolean: True or false Date: any date nul! no data. arrays: array total of any dotal ype. Nested documents: documents within documents lobjed db. sellection. find (). 90st (Efield: 13) -> sort the document in ascerding alphabetical order ashow. db. collection. find(). sort (Effeld: -13) -> sort the document in descending/reverse alphabetical order & show. db. collection. limit (parameter) -> displays the parameter number of documents from the collection. use both sost & limit. db. collection. find (2 field: value) -> displays the document with a the condition met. we can also have more than one field. ab. collection. find (? 3, ? field: true/false) -> displays only the fields in the whole collection. The format for find() as -> db.collection.find (squery }, & projection query -> condition projection - output fields needed based on boolean.

db. collection. update One (filter, update) -> format used for update the document.

db. collection. update One (flield: value of, field: value of)

The above command flood checks the documents that check for the field=value condition documents that check for the field=value condition then the first document is updated with the then the first document is updated or added.

\$set, that is value is altered or added.

db. collection update One (Stield: value 3, 2\$ unset: ?field: "33)

The above command removes the field

from the first document matching the condition

ab. collection. update Many (\$\forall \overline{\pi} \overline{\pi

db. collection. update Many (& field: & \$ exists: value } \$\frac{2}{2} \frac{2}{2} \frac{2

db. students. delete One (2 field: value 3) -> deletes the document with the condition matching

collection. delete Namy (conditions) -> deletes volutible document

comparision query operators: comparision operators return data based on value comparisons.

db. collection. find (2 field: 25 he: Value 33)

finds and returns the documents with the condition of the - not equal to.

similarly other operators with the source for roat,

a me : aqual to

\$ lt: leases than

\$ lte: leases than or equal to

\$9t: Greater than

Ggte: Greater than or equal to

\$10 : chacks for range used in [valuel, values].

Inin: Not in, negate of in [value], value],

Logical Query Operators: logical operators return data based on esepsessions that evaluate to true or false.

\$ and - all documents that mouth the conditions of \$ not - do not match the query expression \$ 2002 -> all docurrenceds that fail to match both clause \$ 08 -> all documents that match the conditions of elthes clause.

db. collection. find (Z\$and: [{eondition18, ?condition28]3)

Indexes: Indexes suppost the efficient execution of queries in MongoDB. Without indexes, MongoDB must perform a collection scan lie scan every document in a collection to select those document that match the query statement. If an appropriate index exists for a query, MongoDB can use the index to limit the number of do currents it must inspect db. collection. find ({ { condition } }). explain ("execution State" The above correspond displays the documents matching the above condition first and then displays the statistics at for execution.

The find() function performs linear search.

db. collection. croate Index (3field:11-13)

The above command creates a new index with the particular matching condition and returns a name of the index. Now when the search will be performed again, the search takes place comparitively much faster.

db. collection. get Indexes ()
returns the array of existing & associated indexes
for the posticulus collection.

db. collection. drop Index (index Name) -> deletes the created & associated index. with the particular index. With the particular

show collections;

displays all the dollections in the pasticulas

db.createCollection ("collection", Ecapped:true, mox: 2425),
Z auto Index Id: falses).

The above correspond exectes a collection which can contain a maximum of xyz humber of documents for which the auto indexing is turned out to be false.

db.collection.drop() -> 19 used to delote a collection