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Mongo DB → Nodejs

* Steps

* Installing MongoDB driver :

cmd → npm install mongodb

* Nodejs can use this module to Manipulate Mongo DB :

```
var mongo = require ('mongodb')
```

* Creating database
To Create database start By Creating a Mongo client then Specify a Connecton URL with the correct IP address. and the name of the DB you want to create

* In Mongodb, a database is not created until it gets content.

* MongodB waits until you have created a collection, with atleast one dec before it actually create a DB & collection.

* Collection Creation :-
A collection in MongodB is some as a table in Mysql In mongo dB, a collection is note created until it gets content.

* Insert :-
The first para of insertone() method is an object containing the name & value of each field in the doc. you want to insert.

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Eg. insert a doc. in "School" collection.

```
dbo.collection("school").insert=one(myobj, d" (err, res) {
if (err) throw err;
Console.log("1 doc inserted");
db.close();
}
```

* findone :-

We use the 'find' & "findone" method to find data in a collection.

Just we 'select' state is used to find data in sql.

To select data from collection we use findone() method.
It returns first occurence in selection.

I^st para is always a Query object.

* findAll :-

To select data from table we use find() method it return all occurences in the collection.

No para. in the find() method gives you the same result as *SELECT* in MySQL.

* find Some!

The 2nd para of find() method is the 'projection' obj that describes which field to include in result.

It's optional, but if emitted than all field will be included.

eg.

```
db.collection("School").find({}{projection:{id:0}})
                        to Array(fun.err, result)
```

* Query :-
When finding doc. in collection, we can filter result by using a query obj.
1st argument of find() method is a query obj & is used to limit the search.

* Delete :-
To delete record or doc. as it is called in MongoDB, we use the deleteOne() method.
1st para of deleteOne() is a query obj. defining which doc to delete.
If query is more than 1st occurance will be deleted.

* Drop :-
You can delete a table / collection, by using drop() method.
The drop() method takes a callback fun. containing the error obj & the result para which returns true if the collection was dropped successfully otherwise false.

* db.dropCollection(.) method :-
It is used to delete a table (collection)
It takes 2 para name of the collection & callback fun

* Update Doc :-
To update a records doc. its done by using updateOne():
method. 1st para of updateOne() method is a query object which defines doc. to update.

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* Limit :-

To limit the result method, we use limit () method.

The limit ( ) method takes one para, a no. defining how many doc. to return.

* Join ( ) :

Mongo db is not a relational database, but you can perform a left outer join by using the '$ lookup' stage'

→ The '$ lookup stage lets you specify which collection you want to join with current collection & which field find that should match.