UNIT III MONGO DB

Syllabus:

Understanding NoSQL and MongoDB – Building MongoDB Environment – User accounts – Access control – Administering databases – Managing collections – Connecting to MongoDB from Node.js – simple applications

Understanding NoSQL

- Agenda
 - Introduction
 - SQL
 - NoSQL
 - Key features of NoSQL
 - Categories of NoSQL

Understanding NoSQL

Good web applications must store and retrieve data with accuracy, speed, and reliability. Therefore, the data storage mechanism is done with the help of a database.

A database is a collection of data, usually stored in electronic form.

Database types

- **♦ SQL(Structured Query Language)**
- NO SQL(Not Only / Non Structured Query Language)

SQL

SQL (Structured Query Language) is a computer based structured, formatted database language designed for managing data in Relational Database Management Systems (RDBMS).

NoSQL

- ❖ It is a type of DBMS that is designed to handle and store large volumes of unstructured and semi-structured data.
- * The term NoSQL originally referred to "non-SQL" or "non-relational" databases, but the term has since evolved to mean "not only SQL," as NoSQL databases have expanded to include a wide range of different database architectures and data models.
- MongoDB is one of the most popular and well supported NoSQL databases currently available

Key Features of NoSQL

- Dynamic schema: No fixed schema and can accommodate changing data structures without the need for migrations or schema alterations.
- Horizontal scalability: NoSQL databases are designed to scale out by adding more nodes to a database cluster, making them well-suited for handling large amounts of data and high levels of traffic.
- **Document-based:** Some NoSQL databases, such as MongoDB, use a document-based data model, where data is stored in semi-structured format, such as JSON or BSON.
- **Key-value-based:** Other NoSQL databases, such as Redis, use a key-value data model, where data is stored as a collection of key-value pairs.
- Distributed and high availability: NoSQL databases are often designed to be highly available and to automatically handle node failures and data replication across multiple nodes in a database cluster.
- Flexibility: NoSQL databases allow developers to store and retrieve data in a flexible and dynamic manner, with support for multiple data types and changing data structures.
- **Performance:** NoSQL databases are optimized for high performance and can handle a high volume of reads and writes, making them suitable for big data and real-time applications.

NoSQL databases are generally classified into four main categories:

Document databases: These databases store data as semi-structured documents, such as JSON or XML, and can be queried using document-oriented query languages.

Examples – Mongo DB, Couch DB

<u>Key-value stores:</u> These databases store data as key-value pairs, and are optimized for simple and fast read/write operations.

Examples - Redis, Coherence

<u>Column-family stores:</u> These databases store data as column families, which are sets of columns that are treated as a single entity. They are optimized for fast and efficient querying of large amounts of data.

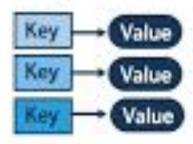
Examples – Hbase, Big Table

<u>Graph databases:</u> These databases store data as nodes and edges, and are designed to handle complex relationships between data.

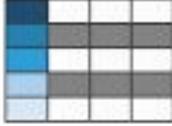
Examples - Amazon Neptune

NoSQL

Key-Value







Column-Family

Graph



Document

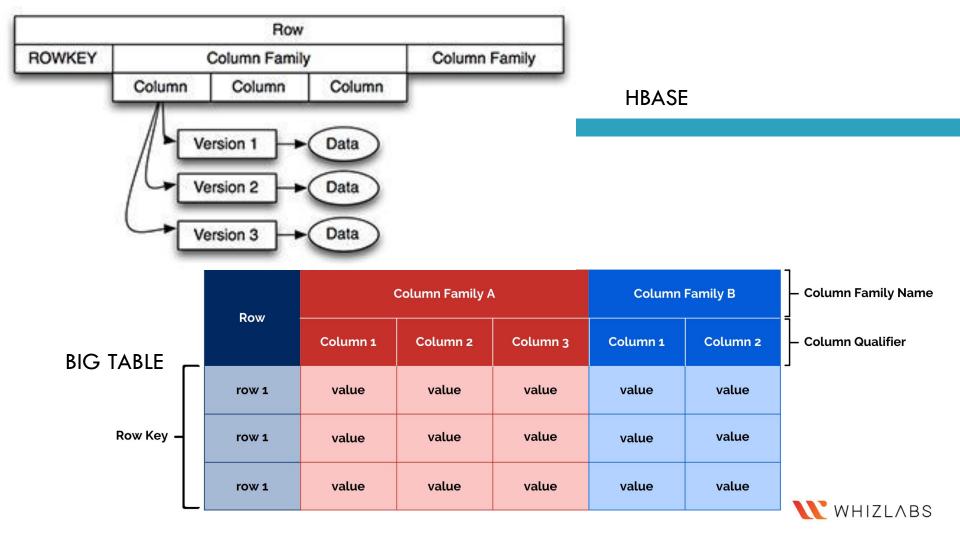


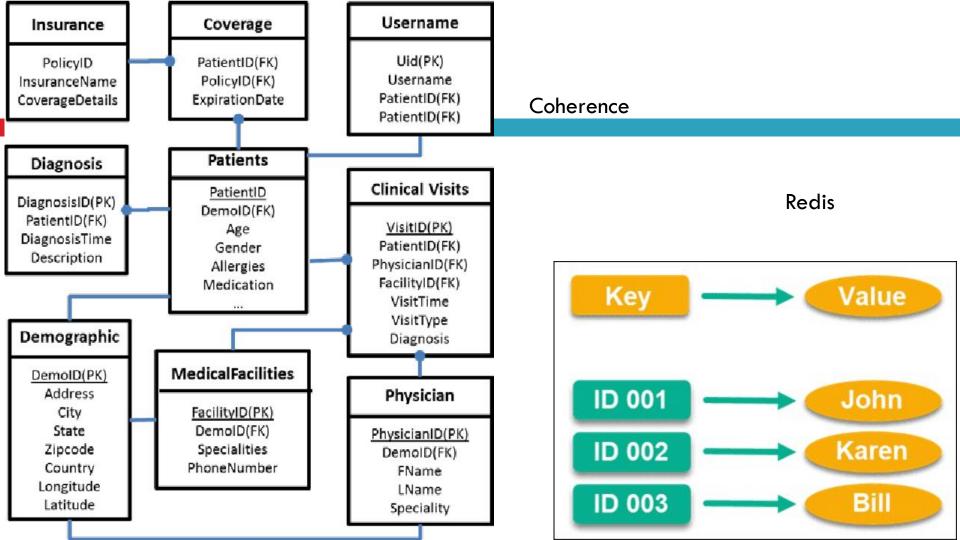
```
• • •
```

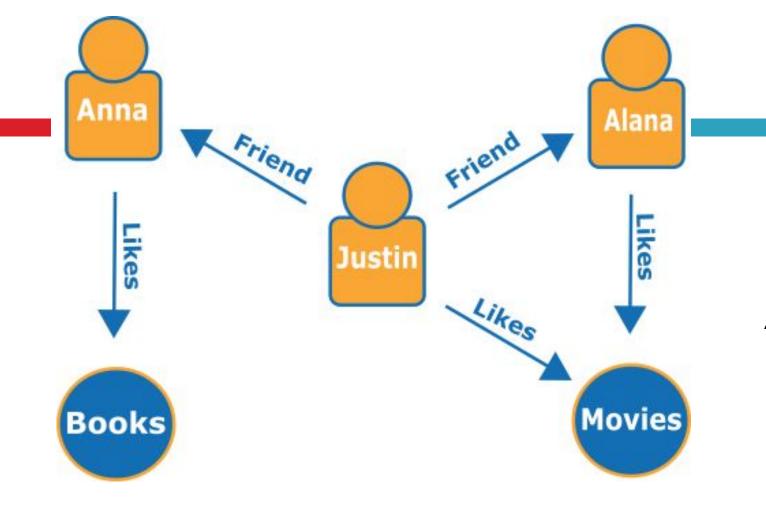
```
"_id": "5cf0029caff5056591b0ce7d",
"firstname": "Jane",
"lastname": "Wu",
"address": {
    "street": "1 Circle Rd",
    "city": "Los Angeles",
    "state": "CA",
    "zip": "90404"
}
"hobbies": ["surfing", "coding"]
```

Couchbase Data

```
meta
                                           "id": "u::tesla",
                                           "rev": "1-0002bce0000000000",
Server stores metadata
                                           "flags": 0,
with each key/value pair
                                           "expiration": 0,
      (document)
                                           "type": "json"
Unique and Kept in RAM
                                         document
                                           "sellerid": 123456,
    Document Value
                                           "type": "car",
                                           "style": "sedan",
Most Recent In RAM And
                                           "year": 2013,
    Persisted To Disk
                                           "trim": "performance",
                                           "model": "s"
```







Amazon Neptune

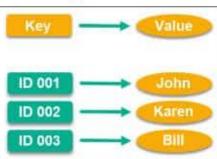
SQL Databases

NoSQL Databases

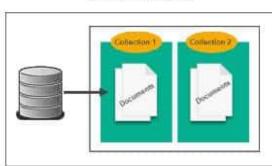
Table

ID	Name	Grade	GPA	
001	John	Senior	4.00	
002	Karen	Freehman	3.67	
003	Bill	Junior	3.33	

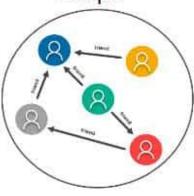
Key-value



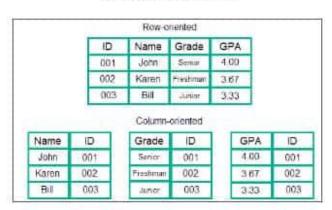
Document



Graph



Wide-column



Understanding MongoDB

- Agenda
 - Why use MongoDB?
 - Where to use MongoDB?
 - RDBMS vs MongoDB.
 - MongoDB datatypes.

Understanding MongoDB

- MongoDB is a NoSQL database based on a document model where data objects are stored as separate documents inside a collection.
- The motivation of the MongoDB language is to implement a data store that provides high performance, high availability, and automatic scaling.

- A collection is simply a grouping of documents that have the same or a similar purpose. A collection acts similarly to a table in a traditional SQL database.
- A document is a representation of a single entity of data in the MongoDB database.

- MongoDB is a document database. It stores data in a type of JSON format called BSON.
- Records in a MongoDB database are called documents, and the field values may include numbers, strings, booleans, arrays, or even nested documents.

Example

```
Sample Document:

{

name: "New Project",

version: 1,

languages: ["JavaScript", "HTML", "CSS"],

admin: {name: "Brad", password: "****"}
}
```

Notice that the document structure contains fields/properties that are strings, integers, arrays, and objects, just like a JavaScript object.

Why Use MongoDB?

- Document Oriented Storage.
- Index on any attribute
- Replication and high availability
- Rich queries
- Fast in-place updates

Where to Use Mongo DB?

- Big Data
- Content Management and Delivery
- Mobile and Social Infrastructure
- User Data Management
- Data Hub







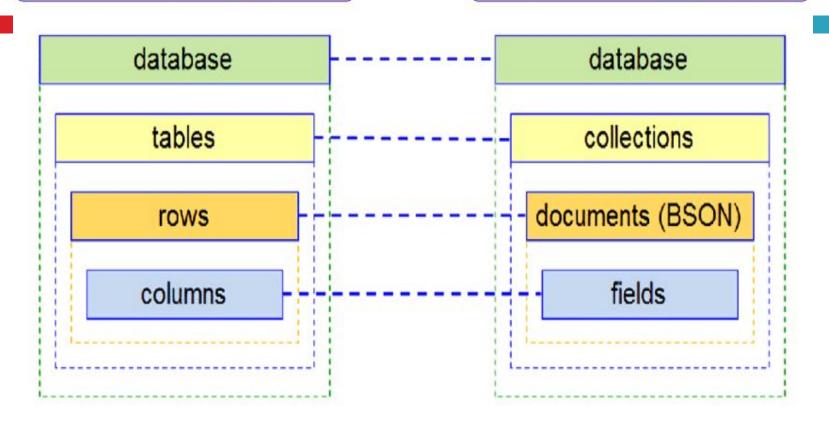






SQL Terms/Concepts

MongoDB Terms/Concepts



RDBMS vs MongoDB:

- •RDBMS has a typical schema design that shows number of tables and the relationship between these tables whereas MongoDB is document-oriented.
- •Complex transactions are not supported in MongoDB because complex join operations are not available.
- MongoDB allows a highly flexible and scalable document structure.
- •MongoDB is faster as compared to RDBMS due to efficient indexing and storage techniques.

MongoDB supports many data types. Some of them are -

- String This is the most commonly used data type to store the data.
- Integer This type is used to store a numerical value
- Boolean This type is used to store a Boolean (true/ false) value.
- ♦ Double This type is used to store floating point values.
- Min/ Max keys This type is used to compare a value against the lowest and highest JSON elements.
- Arrays This type is used to multiple values into one key.
- ◆ Date This data type is used to store the current date
- Object ID This data type is used to store the document's ID.

Activity

Exit Slip!





Building MongoDB Environment

Objective – Learn to install MongoDB

Building MongoDB Environment on Windows

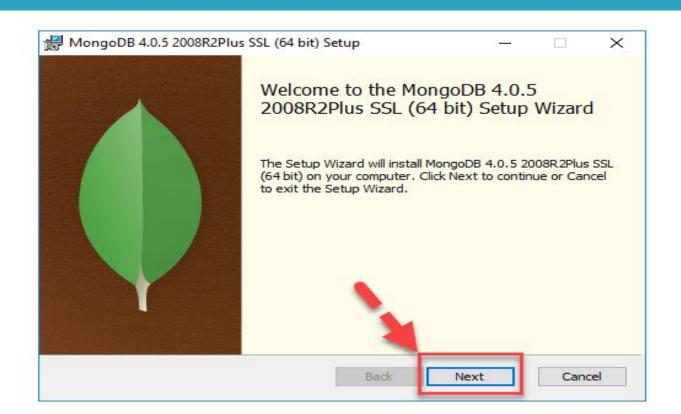
Step 1: Download MongoDB Community Server,

Go to link and

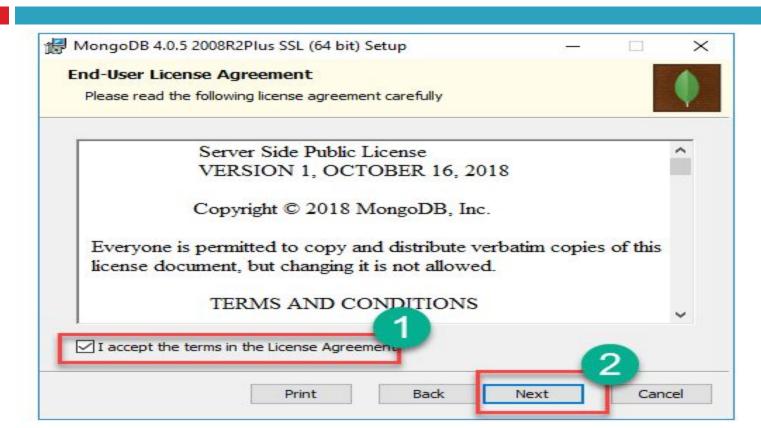
Download MongoDB Community Server.

We will install the 64-bit version for Windows.

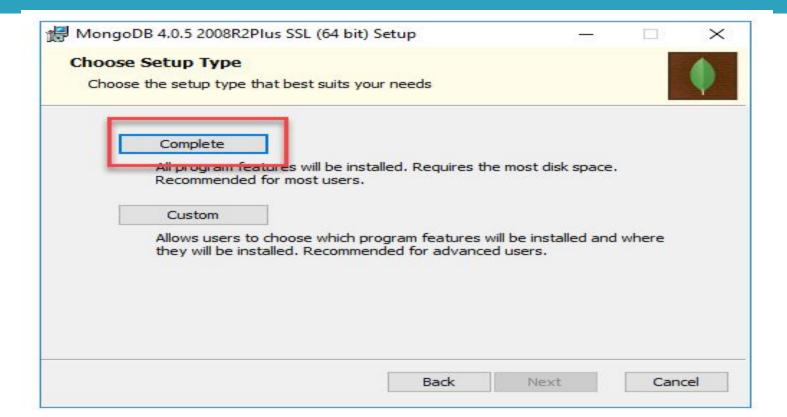
Step 2 : Click on Setup. Once download is complete open the msi file. Click Next in the start up screen



Step 3) Accept the End-User License Agreement Click Next



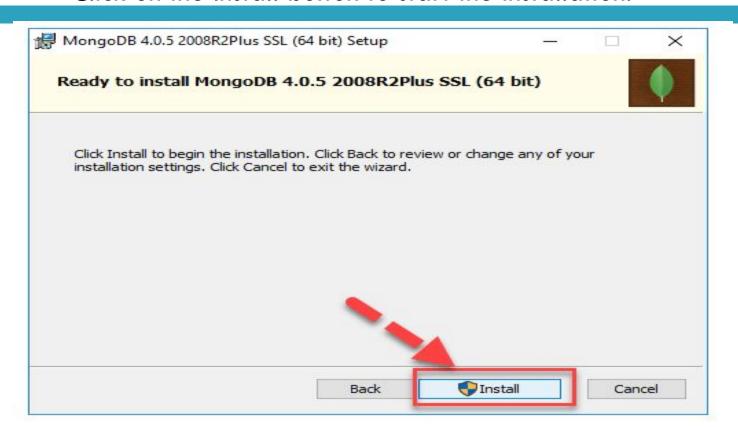
Step 4) Click on the "complete" button to install all of the components



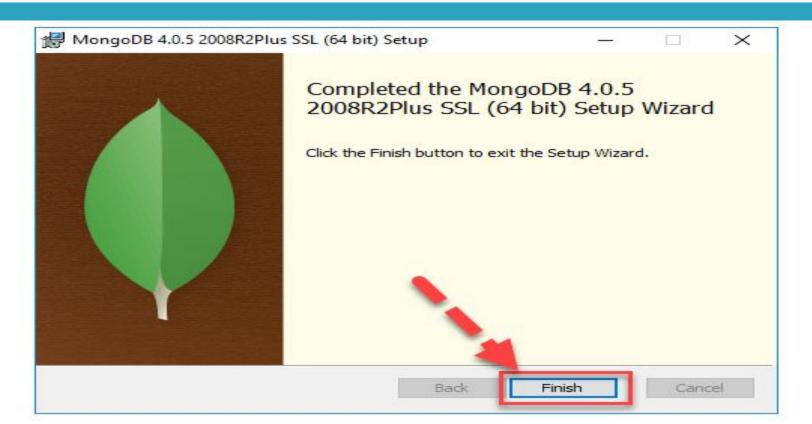
Step 5) Service Configuration Select "Run service as Network Service user". Click Next

MongoDB 4.0.5 20	08R2Plus SSL (64 bit) Service Customization			\times
Service Configura Specify optional se	tion ettings to configure MongoDB as a service.			
☑ Install MongoD as a	Service			
 Run service as f 	letwork Service user			
O Run service as a	local or domain user:			
Account Doma	in:			
Account Name	MongoDB			
Account Passv				
Service Name:	MongoDB			
Data Directory:	C:\Program Files\MongoDB\Server\4.0\data\			
Log Directory:	C:\Program Files\MongoDB\Server\4.0\log\			
	< Back Ne:	xt >	Can	cel

Step 6) Start installation process Click on the Install button to start the installation.



Step 7) Click Next once completed, Installation begins. Click Next once completed **Step 8**) Click on the Finish button, Final step, Once complete the installation, Click on the Finish button



To set environment variable

Step 1: go to the location where MongoDB installed in copy the bin path

C:\Program Files\MongoDB\Server\4.4\bin

Step 2: Now, to create an environment variable open system properties << Environment Variable << System variable << path << Edit Environment variable and paste the copied link to your environment system and click Ok:

Step 3: After cmd type mongod

Type **mongod –version** command to know the version mongoshell

MongoDB Shell commands

- help <option>: The option argument allows you to specify an area where you want help.
- use <database>: Database operations are processed on the current database handle.
- db.help: Displays help options for the database methods.
- **show <option>:** Shows a list based on the option argument. The value of option can be:
 - dbs: Displays a list of databases.
 - **collections:** Displays a list of collections for the current database.
 - profile: Displays the five most recent system. profile entries taking more than 1 millisecond.
 - databases: Displays a list of all available databases.
 - roles: Displays a list of all roles for the current database, both built-in anduser-defined.
 - users: Displays a list of all users for that database.
- **exit:** Exits the database.

MongoDB Shell Methods

- load(script): Loads and runs a JavaScript file inside the shell. This is a great way to script operations for the database.
- UUID(string): Converts a 32-byte hex string into a BSON UUID.
- db.auth(username, password): Authenticates you to the current database.

Administering Databases (CRUD operations)

- Displaying a List of Databases
 show dbs
- 2. Changing the Current Database
 - □ use fullstack
 - □ db To check current Database
- 3. Creating Databases

Your created database (fullstack) is not present in list. To display database, you need create collection and need to insert at least one document into it.

- ☐ db.createCollection("student")
- □ show collections To see existing Collections
- 4. Deleting Databases
 - □ db.student.drop() To drop collection
 - 5. db.dropdatabase() to delete Default Database

- 6. Managing Collections
 - a) Displaying a List of Collections in a Database
 - □ show collections
 - b) Creating Collections
 - ☐ db.createCollection("student")
 - c) Deleting Collections
 - □ db.student.drop() To drop collection
- 7. Adding Documents to a Collection
 - □ db.student.insertOne({'name' : 'raju'}) To add single document
 - □ db.student.insertMany([{"name":"raju"}, {"name":"rao"}]) To add Many documents

8. Finding Documents in a Collection db.student.find() – To view documents in student collection db.student.findOne() – To view First Document in Student Collection				
9. Deleting Documents in a Collection				
coll.remove({'name' : 'raju'}) — To remove a Single Document				
□ coll.remove() – To remove a All Documents				
Deleting Databases				
db.student.drop() - To drop collection				
db.dropdatabase() – to delete Default Database				
10. Updating Documents in a Collection				
□ db.student.update({'name':raju'},{\$set:{name ':'ram'}}) − To update document				
11. Quit the mongo shell				
□ exit				

Example

```
db.empDetails.insertOne(
First_Name: "xyzvudutha",
Last_Name: "abc",
email: "abc.5021@sxcce.edu.in",
phone: "9848022338" }
```

```
db.posts.insertOne
 title: "Post Title 1",
 body: "Body of post.",
 category: "News",
 likes: 1,
 tags: ["news", "events"],
 date: Date()
```

```
db.posts.insertMany([
  title: "Post Title 2",
  body: "Body of post.",
  category: "Event",
  likes: 2,
  tags: ["news", "events"],
  date: Date()
  title: "Post Title 3",
  body: "Body of post.",
  category: "Technology",
   likes: 3,
  tags: ["news", "events"],
  date: Date()
```

Database Update Operators

MongoDB provides different types of field update operators to update the values of the fields of the documents that matches the specified condition. The following table contains the field update operators:

Operator	Description
\$currentDate	This operator is used to set the value of a field to current date, either as a Date or a Timestamp.
\$inc	This operator is used to increment the value of the field by the specified amount.
\$min	This operator is used only to update the field if the specified value is less than the existing field value
\$max	This operator is used only to update the field if the specified value is greater than the existing field value.
\$mul	This operator is used to multiply the value of the field by the specified amount.
\$rename	This operator is used to rename a field.
\$set	The <u>\$set</u> operator replaces the value of a field with the specified value.

Update using \$rename

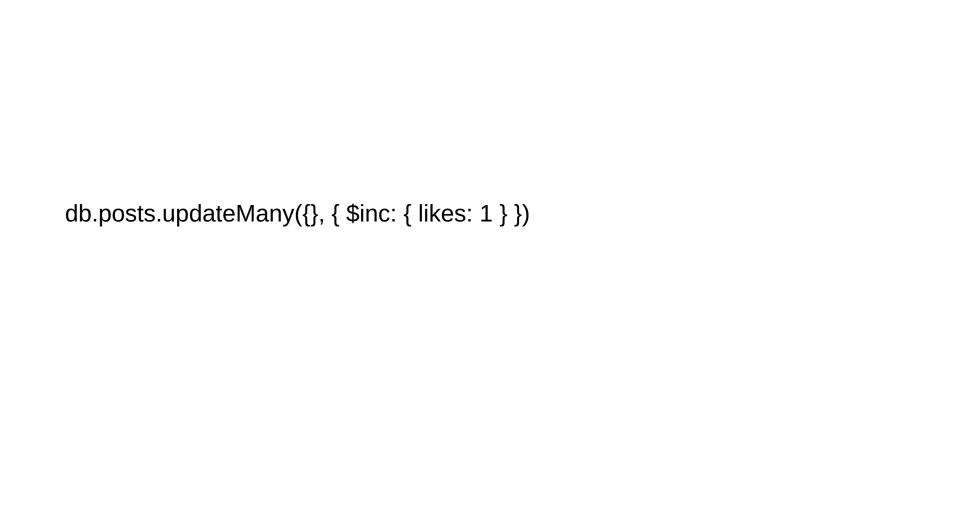
The <u>\$rename</u> operator updates the name of a field and has the following form:

```
{$rename: { <field1>: <newName1>, <field2>: <newName2>, ... } }
```

Example:

```
db.posts.updateOne( { title: "Post Title 1" }, { $rename: { Category: Meet } } )
```

UpdateOne() or Updatemany() can use*



Examples of \$Set

```
db.products.insertOne(
id: 100.
quantity: 250,
instock: true.
reorder: false.
details: { model: "14QQ", make: "Clothes
Corp" },
tags: [ "apparel", "clothing" ],
ratings: [ { by: "Customer007", rating: 4 } ]
```

```
db.products.updateOne(
{ id: 100 },
{ $set:
quantity: 500,
details: { model: "2600", make: "Fashionaires"
},
tags: [ "coats", "outerwear", "clothing" ]
```

```
$inc - to add 5000 to Salary as Annual Increment
db.employee.updateOne({"EmpNo": "1134"}, {$inc: {Salary: 5000}})
$min - to set Book Price as 500. It will be updated only if the existing price is more than 500
db.book.updateOne({"BookId": "1"}, {$min: {price: 500}})
$max - to set Book Price as 600. It will be updated only if the existing price is less than 500
db.book.updateOne({"BookId": "1"}, {$min: {price: 600}})
$mul - to multiply the value of field by a number
db.book.updateOne({"BookId": "1"}, {$mul: {price: NumberDecimal("100"), Quantity:
2}})
$rename - The rename operator changes the name of a field.
db.book.updateOne({}, {$rename: {"bookTitle", "BookTitle"}})
```

Administering User Accounts & Configuration of Access Control

Create Administrator User for Any Database

Creating a user administrator in MongoDB is done by using the createUser method.

```
db.createUser(
{ user: "admin",
pwd: "123",
roles: []
})
Create User for Single Database
```

To create a user who will manage a single database, we can use the same command as mentioned above but we need to use the "userAdmin" option only.

```
db.createUser(
{
  user: "admin",
  pwd: "123",
  roles: [{role: "admin", db:"fdp"}]
} )
```

Managing users

For example, there is a the "read role" which only allows read only access to databases and then there is the "readwrite" role which provides read and write access to the database, which means that the user can issue the insert, delete and update commands on collections in that database.

```
db.createUser(
        user: "Mohan",
        pwd: "password",
        roles:[
                 role: "read", db: "Marketing"},
                 role: "readwrite" , db:"Sales"}
3
                       specifying the different roles
```

```
db.createUser(
    {
      user: "reportUser256",
      pwd: passwordPrompt(),
      roles: [ { role: "readWrite", db: "reporting" } ],
})
```

For authentication go to mongo.cfg add

security:

authentication :enable

Services mongo restart as admin

```
db.auth( "username", "password" ) //to check user authentication db.changeUserPassword("username", "new password") db.dropUser("reportUser1") db.dropAllUser()
```

Assignment

- 1. Start Mongocompass
- 2. Create FDP Database
- 3. Create faculty Collection
- 4. Insert faculty Data (Id No and Name)
 - a) Single Record Your Details
 - b) Two or More Records Your friends Details
 - **Show Collection List**
 - Show Database List
- 7. Find First Document
- 8. Find Document by Criteria
- 9. Update faculty Data by Criteria
- 10. Remove a Document by Criteria
- 11. Remove All Documents
- 12. Drop faculty Collection
- 13. Drop FDP Database

Array Update Operators

	Name	Description
	<u>\$</u>	Acts as a placeholder to update the first element that matches the query condition.
	<u>\$[]</u>	Acts as a placeholder to update all elements in an array for the documents that match the query condition.
;	<u>\$[<identifier></identifier></u>	Acts as a placeholder to update all elements that match the arrayFilters condition for the documents that match the query condition.
	<u>\$addToSet</u>	Adds elements to an array only if they do not already exist in the set.
	\$pop	Removes the first or last item of an array.
	\$pull	Removes all array elements that match a specified query.
	\$push	Adds an item to an array.
	W M I III // II	Llamavaa all matabina valuaa tram an arrav

Update Operator Modifiers

Name

\$each

\$position

\$slice

\$sort

Description

Modifies the <u>\$push</u> and <u>\$addToSet</u> operators to append multiple items for array updates.

Modifies the <u>\$push</u> operator to specify the position in the array to add elements.

Modifies the <u>\$push</u> operator to limit the size of updated arrays.

Modifies the <u>\$push</u> operator to reorder documents stored in an array.

Cursor

- The Cursor is a MongoDB Collection of the document which is returned upon the find method execution.
- It is just like a pointer which is pointing upon a specific index value.
- All the documents which are returned are saved in a virtual cursor.

- Example
- db.student().find()
- db.student().find().count() count how many records are there.
- db.student().find().limit(2) fetch limited records from a cursor.
- db.student().find().pretty() return all the documents in the form of JSON

Connecting to Mongo DB from Node.js

Node Js to mongo connection:

- Node is can act as server for user interfaces.
- So, the node can be used to connect to database server, like: mongodb
- The module we need to install is: mongodb
- npm install mongodb Options are g(global), i(interactive).
- It contains a module to connect to database server.

Example-1

```
const {MongoClient}=require('mongodb');
const url = 'mongodb://127.0.0.1:27017';
const client=new MongoClient(url)
try{
                                                                     using the mongodb driver
             connecting to
                           var MongoClient = require('mongodb').MongoClient;
             the database
  client.
                                                                      specify the
console.
                                                                      connection url
                              console.log("Connected");
}catch(e
                                 db.close();
console.
                                               closing the database
             writing to the
                                               connection
```

Example-2 Insert ,Update , Read operations

maindb.js

```
const {MongoClient}=require('mongodb');
const url = \frac{\text{mongodb}}{127.0.0.1:27017};
const client=new MongoClient(url);
async function dbConnect()
   let result=await client.connect();
   db=result.db("sravanthi");
   return db.collection("students");
module.exports=dbConnect;
```

Readopr.js

```
const dbConnect=require('./maindb')
async function getData() {
  let result=await dbConnect();
  result =await result.find().toArray();
  console.log(result);
  }
  getData();
```

Insertopr.js

insertd();

```
const dbConnect=require('./maindb');
const insertd=async ()=>{
const db= await dbConnect();
const result=db.insertOne({name:"daddy"});
```

const updateData=async ()=>{ let data=await dbConnect(); let result=data.updateOne({name:'duggu'}, {\$set:{name:'sankarsh'}});

dbConnect=require('./maindb')

Updateopr.js

updateData();

const

Example-3 Delete data in mongodb

```
const {MongoClient}=require('mongodb');
const url = \frac{\text{mongodb}}{127.0.0.1:27017};
const client=new MongoClient(url);
async function DeleteData()
   let result=await client.connect();
   db=result.db("sravanthi");
   collection =db.collection("kids");
   let data=await collection.deleteOne(data)
  console.log(data);
```

DeleteData();



Adding the MongoDB Driver to Node.js

 The first step in implementing MongoDB access from your Node.js applications is to add the MongoDB driver to your application project.

- adding the MongoDB Node.js driver to your project is a simple npm command.
- From your project root directory, execute the following command using a console prompt:
- npm install mongodb
- A node_modules directory is created if it is not already there, and the mongodb driver module is installed under it. Once that is done, your Node.js application files can use the require('mongodb') command to access the mongodb module functionality.

Connecting to MongoDB from Node.js

- Once you have installed the mongodb module using the npm command, you can
- begin accessing MongoDB from your Node.js applications by opening up a
- connection to the MongoDB server.
- The connection acts as your interface to create, update, and access data in the MongoDB database.
- Accessing MongoDB is best done through the MongoClient class in the
- mongodb module. This class provides two main methods to create connections to
- MongoDB. One is to create an instance of the MongoClient object and then use
- that object to create and manage the MongoDB connection. The other method uses a
- connection string to connect.

Connecting to MongoDB from Node.js Using the MongoClient Object

- Using a MongoClient object to connect to MongoDB involves creating an instance of the client,
 opening a connection to the database, authenticating to the
- database if necessary, and then handling logout and closure as needed.
- To connect to MongoDB via a MongoClient object, first create an instance of the MongoClient object using the following syntax:

var client = new MongoClient();

- After you have created the MongoClient, you still need to open a connection to the MongoDB server database using the connect(url, options, callback) method. The url is composed of several components listed in Table 13.2. The following syntax is used for these options: mongodb://[username:password@]host[:port][/[database][?options]]
- For example, to connect to a MongoDB database named MyDB on a host named MyDBServer on port 8088, you would use the following URL:

client.connect('mongodb://MyDBServer:8088/MyDB');

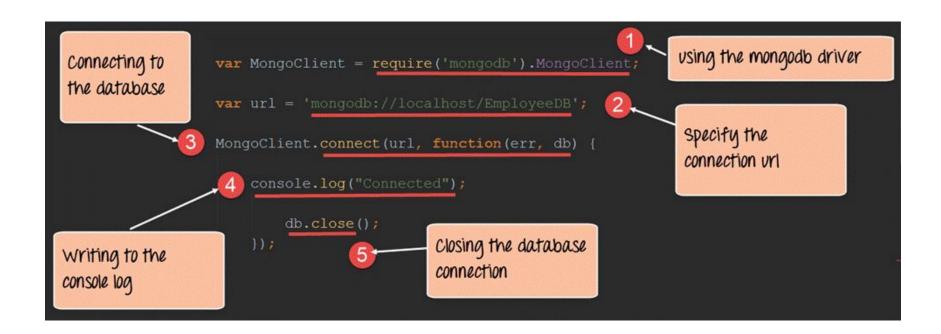
- In addition to the connection url information, you can also provide an options
- object that specifies how the MongoClient object creates and manages the
- connection to MongoDB. This options object is the second parameter to theconnect() method.
- For example, the following code shows connecting to MongoDB with a reconnect
- interval of 500 and a connection timeout of 1000 milliseconds:
 client.connect ('mongodb://MyDBServer:8088/MyDB',
- connectTimeoutMS: 1000,
- reconnectInterval: 500 },
- function(err, db) $\{\ldots\}$);

- we can perform the normal operations of reading data from a database as well as inserting, deleting, and updating records in a MongoDB database.
- let's assume that we have the below MongoDB data in place.
- Database name: EmployeeDB
- Collection name: Employee

Documents {Employeeid: 1, Employee Name: Guru99}, {Employeeid : 2, Employee Name : Joe}, {Employeeid: 3, Employee Name: Martin},

- Installing the NPM Modules
- You need a driver to access Mongo from within a Node application. There are a number of Mongo drivers available, but MongoDB is among the most popular. To install the MongoDB module, run the below command
- npm install mongodb

Creating and closing a connection to a MongoDB database.



- The first step is to include the mongoose module, which is done through the require function.
- Next, we **specify the connection string to the database**. In the connect string, there are 3 key values which are passed.
- The **first is 'mongodb**' which specifies that we are connecting to a **mongoDB database**.
- The next is 'localhost' which means we are connecting to a database on the local machine.
 The next is 'EmployeeDB' which is the name of the database defined in our MongoDB database.
- The next step is to actually **connect to our database**. The **connect function takes in our URL and has the facility to specify a callback function**. It will be called when the connection is opened to the database. This gives us the opportunity **to know if the database connection was successful or not**.
- In the function, we are writing the string "Connection established" to the console to indicate that a successful connection was created.
- Finally, we are closing the connection using the db.close statement.

"C:\Program Files (x86)\JetBrains\WebStorm 11.0.1\bin\runnerw.exe'

Connected

Process finished with exit code 0

Message 'Connected'

Querying for data in a MongoDB database

```
using the find
                  var MongoClient = require('mongodb').MongoClient;
function to
                  var url = 'mongodb://localhost/EmployeeDB';
create a cursor
                  MongoClient.connect(url, function(err, db) {
of records
                     var cursor =db.collection('Employee').find();
                      cursor.each(function(err, doc)
                                                                   For each record
Printing the
                                                                   in the cursor
                          console.log(doc);
results to the
                      1);
                                                                   we are calling
console
                      });
                                                                   a function
```

Output

```
{ _id: 567adf6b34178500288e69ca,
   Employeeid: 1,
   EmployeeName: 'Guru99' }
{ _id: 567adf7934178500288e69cb,
   Employeeid: 2,
   EmployeeName: 'Joe' }
{ _id: 567adf8234178500288e69cc,
   Employeeid: 3,
   EmployeeName: 'Martin' }
All documents
from the
collection are
retrived
```

Inserting documents in a collection – Documents can be inserted into a collection using the insertOne method provided by the MongoDB library.

```
var MongoClient = require('mongodb').MongoClient;
var url = 'mongodb://localhost/EmployeeDB';
                                                      use the insertone
                                                      method to insert a
MongoClient.connect(url, function(err, db) {
                                                      document
    db.collection('Employee').insertOne({
        Employeeid: 4,
                                                 The document
        EmployeeName: "NewEmployee"
                                                 to insert in the
                                                 collection
```

- To check that the data has been properly inserted in the database, you need to execute the following commands in MongoDB
- Use EmployeeDB
- db.Employee.find({Employeeid :4 })

Updating documents in a collection – Documents
 can be updated in a collection using the updateOne
 method provided by the MongoDB library.

```
var MongoClient = require('mongodb').MongoClient;
               var url = 'mongodb://localhost/EmployeeDB';
                                                                     use the
                                                                     updateone
               MongoClient.connect(url, function(err, db) {
                                                                     method
                   db.collection('Employee').updateOne(
What is the
new value to be
                                                                      Search criteria
set for the
                                                                      for document
EmployeeName
                                                                      that needs to
                                                                      be updated
```

Deleting documents in a collection – Documents
can be deleted in a collection using the "deleteOne"
method provided by the MongoDB library.

```
var MongoClient = require('mongodb').MongoClient;
var url = 'mongodb://localhost/EmployeeDB';
MongoClient.connect(url, function(err, db) {
                                                   use the
                                                   deleteone
    db.collection('Employee').deleteOne(
                                                   method
          "EmployeeName": "Mohan" }
                                     Search criteria
         ); });
                                     for which
                                     record needs to
                                     be deleted
```