MONGO DB

INNOWAVE TEAM (100+ SKILLED RESEARCHERS POOL)

"BRIDGING THE GAP BETWEEN KNOWLEDGE AND APPLICATION. YOUR MULTI-DISCIPLINARY RESEARCH PARTNER."





mongobb Mongoose



Contact US :

+94 70 225 2557 (WhatsApp)

HELPING ALL TYPE OF UNDERGRADES FOR COMPLETING THEIR PROJECTS AND ASSIGNMENTS

Feature	Relational Databases	Non-Relational Databases
Data Structure	Tables with rows and columns	Various: key-value, document, column- family, graph
Relationships	Defined using foreign keys	Implicit or handled separately
Schema	Fixed before data entry	Flexible or schema-less
Scalability	Vertical scaling (adding resources to a single server)	Horizontal scaling (distributing data across multiple servers)
Querying	SQL	Varies by model
Consistency	Strong ACID guarantees	Varies by implementation
Examples	MySQL, PostgreSQL, Oracle	MongoDB, Cassandra, Redis, Neo4j
Best for	Structured data, predictable relationships, data integrity	Large datasets, unstructured data, flexibility, scalability

WHAN BEFORE USING RELATIONAL DATABASES

	Relationship
Entity Relationship Diagram	One-to-one Department Manager
Salarg/Solutilizador (Salar) * * * * * * * * * * * * * * * * * * * * *	one-to-many Customer Orders
1 0	many-to-many Employee Projects
Hanging Hangin	
	Normalization
	First Normal Form (1NF)
Create DB	Second Normal Form (2NF)
	Third Normal Form (3NF)

SQL USE FOR CRUD RELATIONAL DATABASES

CRUD	SQL	НТТР
Create	INSERT	POST
Read	SELECT	GET
Update	UPDATE	PUT
Delete	DELETE	DELETE

MONGODB

MongoDB is a document database and can be installed locally or hosted in the cloud.

The MongoDB Query API can be used two ways:

- CRUD Operations
- Aggregation Pipelines

Inserting Documents

two ways intert data 1.mongosh 2mongodb driver



why we use npm init -yes before working

Project Initialization:

Creates a package.json file, essential for managing Node.js projects. Stores project metadata (name, version, author, etc.). Tracks project dependencies, ensuring consistent environments across machines

Dependency Management:

Prepares the project for installing MongoDB drivers or tools. npm install command relies on package.json to manage dependencies.



The command npm i mongodb will install the official Node.js driver for interacting with MongoDB into your current project directory. Here's what happens:

Download: It downloads the mongodb package and its dependencies from the npm registry.

Installation: The downloaded files are placed in the node_modules directory within your project.

Dependency Recording: An entry for the mongodb package is added to your package.json file, which keeps track of all your project's dependencies.

It's important to note that:

You need to be in the directory of your Node.js project when running the command.

Ensure you have Node.js and npm installed on your system.

Running this command without previous project initialization (using npm init -y) will still work, but it's good practice to have a package.json file for managing dependencies.



Docs Home → Develop Applications → MongoDB Drivers → Node.js Driver

MongoDB Node Driver

Connect to MongoDB

mongodb+srv://	user:pass	@ sample.host:27017	/ ?maxPoolSize=20&w=majority
protocol	credentials	hostname/IP and port of instance(s)	connection options

1. Choose Your Method:

- Mongo Shell (mongosh): A command-line interface for direct interaction.
- Node.js Driver: For integrating MongoDB into Node.js applications.
- MongoDB Compass: A GUI for visual interaction and data management.
- Other Drivers and Tools: MongoDB supports drivers for various programming languages and platforms.
- 2. Obtain Connection Information:

Local MongoDB Instance:

Default host: localhost

Default port: 27017

Remote MongoDB Instance:

Obtain host name or IP address.

Verify port number (usually 27017).

May require authentication credentials.

MongoDB Atlas Cluster:

Get connection string from Atlas dashboard.

3. Connect Using Mongo Shell:	
Local Instance:	
Bash	
mongosh	
Use code with caution. Learn more	Q
Remote Instance:	
Bash	
<pre>mongosh "mongodb://<hostname>:<port>"</port></hostname></pre>	
Use code with caution. Learn more	Q
Atlas Cluster: Paste connection string from Atlas into mongosh	



- 5. Connect Using MongoDB Compass:
 - 1. Download and install MongoDB Compass.
 - 2. Launch Compass and create a new connection.
 - 3. Paste connection string or provide host, port, authentication details.
 - 4. Click "Connect".

connect database

```
const {MongoClient} = require('mongodb');
const url = "mongodb://127.0.0.1:27017"
const client = new MongoClient(url);
no usages
async function connectionTest(){
    try{
        await client.db( dbName: "admin").command( command: { ping: 1 });
        console.log("Pinged your deployment. You successfully connected to MongoDB!");
    }finally {
        await client.close()
     }
connectionTest().catch(console.dir);
```

PS E:\developerstack\Mongo\Mongo> node index.js Pinged your deployment. You successfully connected to MongoDB!

Insert Data

Create database

const database = client.db('myDatabase');

Create collection

const collection = database.collection('products')

There are 2 ways to create a collection.

db.createCollection("posts")

db.posts.insertOne(object)

insert a value

```
const doc = {
name:'abc',
price:100.00,
brand : "a"
}
```

const result = await collection.insertOne(doc);

console.log(result)

There are 2 methods to insert documents into a MongoDB database.



```
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()
  },
    title: "Post Title 4",
    body: "Body of post.",
    category: "Event",
    likes: 4,
    tags: ["news", "events"],
   date: Date()
```

```
])
```

```
const {MongoClient} = require('mongodb');
const url = "mongodb://127.0.0.1:27017"
const client = new MongoClient(url);
async function insertData1(){
    try{
        const database = client.db( dbName: 'myDatabase');
        const collection = database.collection( name: 'products');
        const doc = {
            name:'abc',
            price:100.00,
            brand : "a"
        const result = await collection.insertOne(doc);
        console.log(result)
        console.log('Test ok')
   }finally {
        await client.close()
}
insertData1().catch(console.dir)
```



💧 localhost:27017	{} My Queries S myDatabase products X +
 Any Queries Performance Databases Anticological 	myDatabase.products Documents Aggregations Schema Indexes Validation Filter I a query: { field: 'value' } or Generate query +: ADD DATA • I EXPORT DATA •
 Solution Iocal SmyDatabase products 	<pre>_id: ObjectId('65914ca5e1aab0de487b4cf6') name: "abc" price: 100 brand: "a"</pre>
	<pre>_id: ObjectId('65914ccc877c9c201011a665') name: "abc" price: 100 brand: "a"</pre>
	_id: ObjectId('65914d43ea02a9f922450866') name: "abc" price: 100 brand: "a"

```
const doc = {
    name:'abc',
    price:100.00,
    rating: ["a","b","c"]
}
```

- 1 _id: ObjectId('65914e19884ecf6a09a2fe4a')
- 2 name: "abc //"
- 3 price: 100
- 4 → rating: Array (3)

insert more value

```
const {MongoClient} = require('mongodb');
const url = "mongodb://127.0.0.1:27017"
const client = new MongoClient(url);
async function insertDataMany(){
    try{
        const database = client.db( dbName: 'myDatabase');
        const collection = database.collection( name: 'products');
        const doc = [{
            price:100.00,
            rating: ["a","b","c"]
                     }.{
            name: 'pqr',
            code: ['java','python',12]
        1
        const result = await collection.insertMany(doc);
        console.log(result)
        console.log('Test ok')
    }finally {
        await client.close()
}
insertDataMany().catch(console.dir)
```



```
_id: ObjectId('65914fe32c5ca3616adeed3f')
name: "abc"
price: 100
> rating: Array (3)
```

```
_id: ObjectId('65914fe32c5ca3616adeed40')
name: "pqr"
> code: Array (3)
```

Find Documents

```
🝰 index.js 🛛 🍰 find.js 🗶 🍰 insert.js 🗡 🐞 package.json 🖄
       const {MongoClient} = require('mongodb');
       const url = "mongodb://127.0.0.1:27017"
       const client = new MongoClient(url);
      async function insertInventory(){
           try{
               const database = client.db( dbName: 'shopdb');
               const result = await database.collection( name: 'inventory').insertMany(
                    docs: [{
                   name: 'pqr',
                   code: ['java','python',12]
                        D;
               console.log(result)
               console.log('Test ok1')
               await client.close()
```

```
async function insertProducts(){
    try{
        const database = client.db( dbName: 'shopdb');
        const collection = database.collection( name: 'products');
        const doc = [{
            code: "001",
            price:100.00,
            rating: ["a","b","c"]
                     },{
            code:'002',
            name: 'pqr',
            code: ['java','python',12]
        const result = await collection.insertMany(doc);
        console.log(result)
        console.log('Test ok')
    }finally {
        await client.close()
}
insertInventory().catch(console.dir);
insertProducts().catch(console.dir);
```

```
"C:\Program Files\nodejs\node.exe" E:\developerstack\Mongo\Mongo\insert.js
{
    acknowledged: true,
    insertedIds: {
        '0': new ObjectId('6591594704a315cd8750a540'),
        '1': new ObjectId('6591594704a315cd8750a541')
    }
}
Test ok
{
    acknowledged: true,
    insertedCount: 2,
    insertedIds: {
        '0': new ObjectId('6591594704a315cd8750a542'),
        '1': new ObjectId('6591594704a315cd8750a542'),
        '1': new ObjectId('6591594704a315cd8750a542'),
        '1': new ObjectId('6591594704a315cd8750a542'),
        '1': new ObjectId('6591594704a315cd8750a543')
    }
}
Test ok1
```

Docs Home → Develop Applications → MongoDB Drivers → Node.js Driver

Retrieve Data

Find Data

There are 2 methods to find and select data from a MongoDB collection, find() and findOne().



find all the product - findAllProducts()



```
PS E:\developerstack\Mongo\Mongo> node find.js
 _id: ObjectId {
   [Symbol(id)]: Buffer(12) [Uint8Array] [
     101, 145, 88, 107,
    137, 10, 192, 26,
     238, 173, 109, 123
 code: '001',
 name: 'abc',
 price: 100,
 rating: [ 'a', 'b', 'c' ]
 _id: ObjectId {
   [Symbol(id)]: Buffer(12) [Uint8Array] [
     137, 10, 192, 26,
     238, 173, 109, 124
 code: [ 'java', 'python', 12 ],
 name: 'pqr'
 _id: ObjectId {
   [Symbol(id)]: Buffer(12) [Uint8Array] [
     101, 145, 89, 4, 206,
     43, 149, 234, 121, 238,
     170, 44
 code: '001',
 name: 'abc',
 price: 100,
 rating: [ 'a', 'b', 'c' ]
```

find the first product - findFirstProducts()





Querying Data

To query, or filter, data we can include a query in our find() or findOne() methods



find all product with name - findByName(name)



```
"C:\Program Files\nodejs\node.exe" E:\developerstack\Mongo\Mongo\find.js
{
    id: ObjectId {
      [Symbol(id)]: Buffer(12) [Uint8Array] [
        101, 145, 88, 107,
        137, 10, 192, 26,
        238, 173, 109, 123
    ]
    },
    code: '001',
    name: 'abc',
    price: 100,
    rating: [ 'a', 'b', 'c' ]
}
{
    id: ObjectId {
      [Symbol(id)]: Buffer(12) [Uint8Array] [
        101, 145, 89, 4, 206,
        43, 149, 234, 121, 238,
        170, 44
    ]
    },
    code: '001',
    name: 'abc',
    price: 100,
    rating: [ 'a', 'b', 'c' ]
}
{
    id: ObjectId {
      [Symbol(id)]: Buffer(12) [Uint8Array] [
        i01, 145, 89, 4, 206,
        43, 149, 234, 121, 238,
        170, 44
    ]
    },
    code: '001',
    name: 'abc',
    price: 100,
    rating: [ 'a', 'b', 'c' ]
}
{
    id: ObjectId {
      [Symbol(id)]: Buffer(12) [Uint8Array] [
        i01, 145, 89, 71, 4,
        i63, 21, 205, 135, 80,
        165, 64
    ]
```

find all the products with qty-findByQty(qty)



```
id: ObjectId {
   [Symbol(id)]: Buffer(12) [Uint8Array] [
    101, 145, 88, 107,
    137, 10, 192, 26,
    238, 173, 109, 123
   ]
   },
   code: '001',
   name: 'abc',
   price: 100,
   rating: [ 'a', 'b', 'c' ]
}
{
   _id: ObjectId {
    [Symbol(id)]: Buffer(12) [Uint8Array] [
    101, 145, 89, 4, 206,
    43, 149, 234, 121, 238,
    170, 44
   ]
   },
   code: '001',
   name: 'abc',
   price: 100,
   rating: [ 'a', 'b', 'c' ]
}
{
   _id: ObjectId {
    [Symbol(id)]: Buffer(12) [Uint8Array] [
    101, 145, 89, 71, 238,
    170, 44
   ]
   }
   ,
   code: '001',
   name: 'abc',
   price: 100,
   rating: [ 'a', 'b', 'c' ]
}
{
   _id: ObjectId {
    [Symbol(id)]: Buffer(12) [Uint8Array] [
    101, 145, 89, 71, 4,
    163, 21, 205, 135, 80,
    165, 64
   ]
   }
   ,
   code: '001',
   name: 'abc'.
```

find all the products that rated user name-findByRateUser(user)



```
PS E:\developerstack\Mongo\Mongo> node find.js
{
    _id: ObjectId {
      [Symbol(id)]: Buffer(12) [Uint8Array] [
        101, 146, 60, 211,
        194, 167, 37, 241,
        183, 123, 76, 187
    ]
    },
    code: '001',
    name: 'abc',
    price: 100,
    rating: [ { user: 'usr1', rate: 4 }, { user: 'usr3', rate: 1 } ]
}
```

sort all products by price-sortByPrice()



filter name and after sort



```
PS E:\developerstack\Mongo\Mongo> node find.js
{
    _id: ObjectId {
      [Symbol(id)]: Buffer(12) [Uint8Array] [
        101, 145, 88, 107,
        137, 10, 192, 26,
        238, 173, 109, 123
    ]
    },
    code: '001',
    name: 'abc',
    price: 100,
    rating: [ 'a', 'b', 'c' ]
}
{
    _id: ObjectId {
      [Symbol(id)]: Buffer(12) [Uint8Array] [
        101, 145, 89, 4, 206,
    ]
}
```

filter fields in all products-filterFields()

Both find methods accept a second parameter called projection.

This example will only display the title and date fields in the results.

```
db.posts.find({}, {title: 1, date: 1})
```

This time, let's exclude the <u>_id</u> field.

```
db.posts.find({}, {_id: 0, title: 1, date: 1})
```

```
db.posts.find({}, {category: 0})
```



{ code: '001', name: 'abc', price: 100 }

{ code: ['java', 'python', 12], name: 'pqr' }

{ code: ['java', 'python', 12], name: 'pqr' }

```
//filter fields in all products-filterFields()
no usages * prasadkaru*
pasync function filterFields(){
    try{
        const database = client.db( dbName: 'shopdb');
        const product = database.collection( name: 'products')
        const query = {}
        const option = {projection:{_id:0, name:1, code:1, price:1}, sort:{price:1}}
        const result = await product.find(query, option);
        await result.forEach(console.dir)
    } finally {
        client.close();
    }
}
```

filterFields().catch(console.dir):

{ code: ['java', 'python', 12], name: 'pqr' }
{ code: ['java', 'python', 12], name: 'pqr' }
{ code: ['java', 'python', 12], name: 'pqr' }
{ code: ['java', 'python', 12], name: 'pqr' }
{ code: ['java', 'python', 12], name: 'pqr' }
{ code: ['java', 'python', 12], name: 'pqr' }
{ code: ['java', 'python', 12], name: 'pqr' }
{ code: ['java', 'python', 12], name: 'pqr' }
{ code: ['java', 'python', 12], name: 'pqr' }
{ code: ['java', 'python', 12], name: 'pqr' }
{ code: ['001', name: 'abc', price: 100 }
{ code: '001', name: 'abc', price: 100 }

find all products name start with "Laptop"-findAllProductsStartsWithLaptop()



	🔘 find,	js ×					
{	code:	'001',	name:	'abc',	price:	100	}
{	code:	'001',	name:	'abc',	price:	100	}
{	code:	'001',	name:	'abc',	price:	100	}
{	code:	'001',	name:	'abc',	price:	100	}
{	code:	'001',	name:	'abc',	price:	100	}
{	code:	'001',	name:	'abc',	price:	100	}
{	code:	'001',	name:	'abc',	price:	100	}

Without case sensative

```
//find all products name start with "Laptop"-findAllProductsStartsWithLaptop()
no usages _ prasadkaru*
async function findAllProductsStartsWithLaptop(){
    try{
        const database = client.db( dbName: 'shopdb');
        const product = database.collection( name: 'products')
        const query = {name:{$regex:"^aB", $options:'i'}}
        const option = {projection:{_id:0,name:1,code:1,price:1}}
        const result = await product.find(query,option);
        await result.forEach(console.dir)
    } finally {
        client.close();
     }
     findAllProductsStartsWithLaptop().catch(console.dir);
     }
}
```

//find all products name contain_findAllProductsContain(name)



{	code:	['java',	'python',	12],	name:	'pqr'	}
{	code:	I	'java',	'python',	12],	name:	'pqr'	}
{	code:	I	'java',	'python',	12],	name:	'pqr'	}
{	code:	I	'java',	'python',	12],	name:	'pqr'	}
{	code:	I	'java',	'python',	12],	name:	'pqr'	}
{	code:	I	'java',	'python',	12],	name:	'pqr'	}
{	code:	I	'java',	'python',	12],	name:	'pqr'	}

//find all products name contain end_findAllProductsEndWith(name)



{	code:	'001',	name:	'abc',	price:	100	}
{	code:	'001',	name:	'abc',	price:	100	}
{	code:	'001',	name:	'abc',	price:	100	}
{	code:	'001',	name:	'abc',	price:	100	}
{	code:	'001',	name:	'abc',	price:	100	}
{	code:	'001',	name:	'abc',	price:	100	}
{	code:	'001',	name:	'abc',	price:	100	}

//sort and filter all products by price, stats with -filterSortByPriceStartWith(name)



{	code:	['java',	'python',	12],	name:	'pqr'	}
{	code:	['java',	'python',	12],	name:	'pqr'	}
{	code:	['java',	'python',	12],	name:	'pqr'	}
{	code:	['java',	'python',	12],	name:	'pqr'	}
{	code:	['java',	'python',	12],	name:	'pqr'	}
{	code:	['java',	'python',	12],	name:	'pqr'	}
{	code:	['java',	'python',	12],	name:	'pqr'	}

Logical

The following operators can logically compare multiple queries.

- \$and : Returns documents where both queries match
- \$or : Returns documents where either query matches
- \$nor: Returns documents where both queries fail to match
- \$not : Returns documents where the query does not match

```
//find all products by name and promotion - findByNameAndPromo(name,promo)
no usages new*
aasync function findByNameAndPromo(name,promo) {
   try{
      const database = client.db( dbName: 'shopdb');
      const product = database.collection( name: 'products')
      const query = {$and:[{name:name}, {promotion:promo}]}
      const option = {
         sort:{price:1}
         ,projection:{_id:0,name:1,code:1,price:1,promotion:1}}
      const result = await product.find(query,option);
      await result.forEach(console.dir)
    } finally {
         client.close();
      }
```

Comparison

The following operators can be used in queries to compare values:

- \$eq: Values are equal
- \$ne : Values are not equal
- \$gt : Value is greater than another value
- \$gte : Value is greater than or equal to another value
- \$1t: Value is less than another value
- \$1te : Value is less than or equal to another value
- \$in: Value is matched within an array

```
async function findQtyGte(qty) {
   try {
      const database = client.db("shopdb");
      const product = database.collection("product");
      const query = { qty: {$gte :qty}};
      const options = {
         sort: { price: 1 },
         projection: { _id: 0, name: 1, price: 1, qty: 1, promotion: 1 },
      };
```

Comparison

The following operators can be used in queries to compare values:

- \$eq : Values are equal
- \$ne : Values are not equal
- \$gt : Value is greater than another value
- \$gte: Value is greater than or equal to another value
- \$1t : Value is less than another value
- \$1te: Value is less than or equal to another value
- \$in: Value is matched within an array

```
async function findQtyGtPriceLt(qty,price) {
   try {
      const database = client.db("shopdb");
      const product = database.collection("product");
      const query = { qty: { $gt: qty }, price:{$lt : price} };
      const options = {
         sort: { price: 1 },
         projection: { _id: 0, name: 1, price: 1, qty: 1 },
      };
      const result = await product.find(query, options);
    }
}
```

```
async function inventoryTagAll(tags) {
    try {
        const database = client.db("shopdb");
        const inv = database.collection("inventory");
        const query = { tags: { $all: tags } };
        const options = {
            projection: { _id: 0 }, I
        };
        const result = await inv.find(query, options);
        await result.forEach(console.dir);
        finally {
            client_close().
        inventoryTagAll(["red", "blank"]).catch(console.dir);
        }
    }
}
```

count docs in inventory - countinventory()
distinct names in products - distinctProductName()





Update and Delete Documents

To update an existing document we can use the updateOne() or updateMany() methods.

updateOne() updateMany()



"C:\Program Files\nodejs\node.exe" E:\developerstack\Mongo\Wongo\update.js 1 document(s) matched the filter, updated 1 document(s)





```
_id: ObjectId('65915904ce2b95ea79eeaa2d')
> code: Array (3)
name: "pqr"
```

id: ObjectId('6591594704a315cd8750a540')

replace



Process finished with exit code 0

_id: ObjectId('6591586b890ac01aeead6d7b')
price: 150
name: "abcd"

Delete Documents

We can delete documents by using the methods deleteOne() or deleteMany().

deleteOne() deleteMany()

```
gasync function deleteFirst() {
    try {
        const database = client.db( dbName: 'shopdb');
        const product = database.collection( name: 'products')
        const query = { code: '001' };
        const result = await product.deleteOne(query);
        /* Print a message that indicates whether the operation deleted a
        document */
        if (result.deletedCount === 1) {
            console.log("Successfully deleted one document.");
        } else {
            console.log("No documents matched the query. Deleted 0 documents.");
        }
        finally {
            // Close the connection after the operation completes
            await client.close();
        }
        // Run the program and print any thrown errors
        deleteFirst().catch(console.dir);
        // Case the console.dir);
    }
}
```

Successfully deleted one document.

```
_id: ObjectId('6591586b890ac01aeead6d7b')
price: 150
name: "abcd"
```

```
_id: ObjectId('6591586b890ac01aeead6d7c')
    code: Array (3)
    name: "pqr"
    __id: ObjectId('65915904ce2b95ea79eeaa2c')
    code: "001"
    name: "abc"
    price: 150
    rating: Array (3)
```

```
_id: ObjectId('65915904ce2b95ea79eeaa2d')
  code: Array (3)
  name: "pqr"
```







Mongoose is an object-document mapping (ODM) framework for Node.js and MongoDB



Core Benefits

- SCHEMA VALIDATION
- MODELS
- CHANGE TRACKING
- MIDDLEWARE

PLUGINS



Models

(MVC) Model-view-controller

(MVVM) Model-view-viewmodel



Middlew	are	
Plugins	<section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><text></text></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header>	
	bttps://plugins.mongoosej	s.io/

Connect atlas cloud

const mongoose = require('mongoose');

mongoose.connect("mongodb://127.0.0.1:27017/testDb")
.then(()=>console.log("connected"))
.catch((err)=>console.log(err))

PS E:\developerstack\Mongo\Mongoose> npm i mongoose
added 22 packages, and audited 23 packages in 18s
1 package is looking for funding
 run `npm fund` for details
found 0 vulnerabilities
PS E:\developerstack\Mongo\Mongoose> node index.js
connected



found 0 vulnerabilities

PS E:\developerstack\Mongo\Mongoose> node index.js
connected

PS E:\developerstack\Mongo\Mongoose> node index.js
connected

Mongoose Schema and model

PS E:\developerstack\Mongo\Mongoose> npm init -y Wrote to E:\developerstack\Mongo\Mongoose\package.json:

PS E:\developerstack\Mongo\Mongoose> npm i mongoose

		🐞 package.json 🗡
{		
		name": "lesson1",
		version": "1.0.0",
		dependencies": {
		"mongoose": "^8.0.3"
	}	
		m <mark>ain":</mark> "index.js",
		scripts": {
		"dev": "nodemon index.js"
	}	
		keywords": [],
		author": "",
		license": "ISC",
		description": "",
		devDependencies": {
		"nodemon": "^3.0.2"
	}	
}		

found 0 vulnerabilities PS E:\developerstack\Mongo\Mongoose> npm run dev

> nodemon	index.js
[nodemon]	3.0.2
[nodemon]	to restart at any time, enter `rs`
[nodemon]	watching path(s): *.*
[nodemon]	watching extensions: js,mjs,cjs,json
[nodemon]	starting `node index.js`
connected	





test.products







[nodemon] restarting due to changes...
[nodemon] starting `node index.js`
product validation failed: qty: Path `qty` is required.

Document





, [nodemon] restarting due to changes... [nodemon] starting `node index.js` product validation failed: price: Path `price` (50) is less than minimum allowed value (100). []

String

- lowercase : boolean, who
- uppercase : boolean, who
- trim: boolean, whether
- match: RegExp, creates ¿
- enum : Array, creates a Va
- minLength: Number, cre
- maxLength : Number, cre
- populate : Object, sets d

Number

- min : Number, creates a
- max : Number, creates a
- enum : Array, creates a va array.
- populate : Object, sets d

Date

- min : Date, creates a vali
- max : Date, creates a vali
- expires : Number or Stri



```
async function run(){
       try {
            const newProduct= await Product.create({
                 name:"LapTop I7 6",
                 price:150000.00,
                 qty:10,
                 review:[
                      {user:"anu",stars:4},
                      {user:"fdo", stars:5}
                 ]
                 });
                 console.log(newProduct);
       } catch (error) {
MS 🔳 OUTPUT
              DEBUG CONSOLE
                         TERMINAL
iew: [
user: 'anu',
stars: 4,
_id: new ObjectId("635dff830f11e046f3fb3e6b")
user: 'fdo',
stars: 5,
id: new ObjectId("635dff830f11e046f3fb3e6c")
new ObjectId("635dff830f11e046f3fb3e6a"),
 0
```

schema connect





Contact US :

$+94\ 70\ 225\ 2557$

HELPING ALL TYPE OF UNDERGRADES FOR COMPLETING THEIR PROJECTS AND ASSIGNMENTS