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##### UNIVERSITI TEKNIKAL MALAYSIA MELAKA

**FAKULTI TEKNOLOGI DAN KEJURUTERAAN ELEKTRONIK DAN KOMPUTER**

**BERR 2243**

**DATABASE & CLOUD SYSTEM**

**Sem 2 2024/2025**

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| --- | --- | --- | --- |
| **No** | **Name** | **Matrix No** | **Photo** |
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1. **GitHub Repository** : <https://github.com/anishafifza>
2. **Screenshots of :**

* MongoDB connection with NodeJS

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* **Document in MongoDB Compass**

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**Exercise Questions**

Answer :

1. **Code Execution & Output**

After running your index.js script:

* What exact text does the console display when the document is inserted?
* What \_id value is automatically assigned to the document?

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1. **Modify and Observe**

Change the name field in index.js to your own name and the age to your birth year. Run the script again.

* What **new \_id** is generated for this document?

A computer screen with text

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* A screen shot of a computer program

  AI-generated content may be incorrect.What error occurs if you forget to call **await client.connect()**?

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1. **MongoDB Connection Failure**

**Intentionally break** the MongoDB connection string (e.g., change the port to 27018)

* What **error message** does NodeJS throw?

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* What is the **exact text** of the error code (e.g., ECONNREFUSED)?

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1. **MongoDB Shell Query**

Use the **MongoDB shell** (not Compass) to:

* List all documents in the testDB.users collection.
* What command did you use? Paste the **full output**.

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1. **File System & Dependencies**

* What is the **absolute path** to your project’s package-lock.json file?
* What **exact version** of the mongodb driver is installed?

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1. **Troubleshooting Practice**

**Stop the MongoDB service** and run the script.

* What error occurs?

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* What command restarts the service?

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1. **GitHub Repository Structure**

On GitHub, navigate to your repository’s.

* What **timestamp** is listed for your last commit?

Commits on Mar 22, 2025

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* How many files are present in this branch?

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1. **Performance Observation**

Time how long it takes for the script to print "Connected to MongoDB!".

* What is the **duration** (in milliseconds)?

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* Does this time change if you run the script again? Why?

Yes, when I run the script again the duration for print “Connected to MongoDB” was changed because MongoDB server load for handling other requests.

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