

UNIVERSITI TEKNIKAL MALAYSIA MELAKA FAKULTI TEKNOLOGI DAN KEJURUTERAAN ELEKTRONIK DAN KOMPUTER

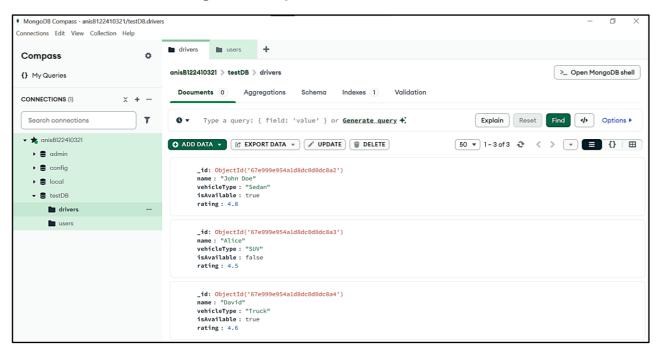
BERR 2243 DATABASE & CLOUD SYSTEM

SEM 2 2024/2025

EXERCISE: WEEK 2

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- 1. GitHub Repository: https://github.com/anishafifza
- 2. Screenshots of:
 - Document in MongoDB Compass



Exercise Questions

Answer:

1. Explain what is CRUD operations and how it is relates to the mongo functions in the exercise.

Create - C

Inserting new documents into a collection.

```
for (const driver of drivers) {
   const result = await driversCollection.insertOne(driver);
   console.log(`New driver created with result: ${result.insertedId}`);
}
```

Read - R

Querying / fetching documents from a collection.

Update - U

Modifying existing documents.

Delete - D

Removing documents from a collection.

```
// Delete - Task 6
const deleteResult = await db.collection('drivers').deleteOne({ isAvailable: false });
console.log(`Driver delete with result: ${deleteResult}`);
}
```

2. Identify all the mongo operators used in the exercise, then explain the usage for each.

\$gte (Greater Than or Equal to):

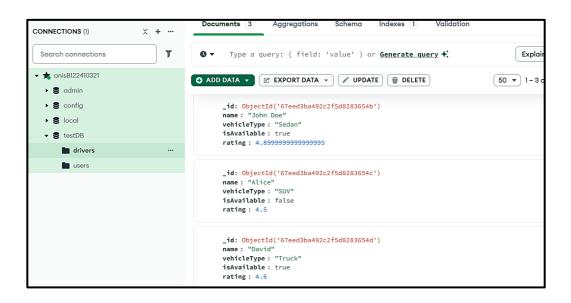
Used in the find() query to get all drivers whose rating is 4.5 or higher

\$inc (Increment Operator):

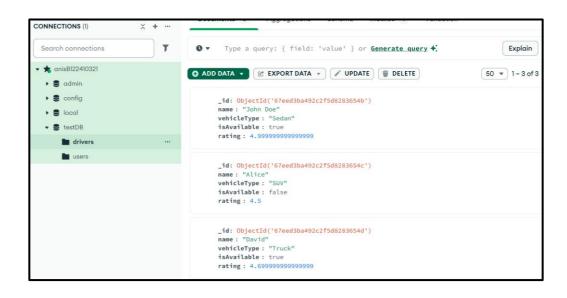
Used in the updateOne() function to increase John Doe's rating by 0.1.

3. Replace the mongo functions in Task 5 to updateMany instead of updateOne, compare the diFerence based on the result in console and the mongo compass.

Before:



After:



4. Replace the mongo functions in Task 6 to deleteMany instead of deleteOne, compare the difference based on the result in console and the mongo compass.

Before:

After: