

23CSE461-FULL STACK FRAMEWORKS

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MongoDB Lab : Module 1 (Cognitive Screener Table):

Database created:

-Left panel showing carreeforge database

Collections:

students_master-Master table , cognitive_screener table:

The screenshot shows two side-by-side MongoDB Compass interfaces. The left interface is for the 'students_master' collection under the 'careerforge' database. It displays three documents with student information: Mokitha Sakhthi (student_id: STU102), Ananya (student_id: STU103), and Ravi (student_id: STU104). The right interface is for the 'cognitive_screener' collection under the same database. It displays two documents with screener information: CS001 (screener_id: CS001) and CS002 (screener_id: CS002). Both interfaces include tabs for 'Documents', 'Aggregations', 'Schema', and 'Indexes'.

FIND query:

1. Finding document:

The screenshot shows the MongoDB Compass interface for the 'cognitive_screener' collection. A search query is entered: { "screener_id": "CS002" }. The results show one document for screener CS002, which has a student_id of STU102, a resume score of 72, and a target role of 'Backend Developer'. The document also includes missing skills and an evaluation date of 2025.

2.AND condition:

The screenshot shows the MongoDB Compass interface. The left sidebar lists connections: cs_table, admin, careerforge, cognitive_screener, config, local, m, me, and studyhivedb. The main area shows the 'cognitive_screener' collection under 'careerforge'. A query builder is open with the following query:

```
{ "resume_score": { "$gte": 80 }, "target_role": "Full Stack Developer" }
```

The results pane displays one document:

```
_id: ObjectId('695d3d56409b86219b8cc6a7')
screener_id: "CS001"
student_id: "STU101"
resume_score: 88
target_role: "Full Stack Developer"
missing_skills: Array (2)
evaluation_date: 2025
```

3.OR condition:

The screenshot shows the MongoDB Compass interface. The left sidebar lists connections: cs_table, admin, careerforge, cognitive_screener, config, local, m, me, and studyhivedb. The main area shows the 'cognitive_screener' collection under 'careerforge'. A query builder is open with the following query:

```
{ "$or": [ { "resume_score": { "$gte": 85 } }, { "target_role": "Backend Developer" } ] }
```

The results pane displays two documents:

```
_id: ObjectId('695d3d56409b86219b8cc6a7')
screener_id: "CS001"
student_id: "STU101"
resume_score: 88
target_role: "Full Stack Developer"
missing_skills: Array (2)
evaluation_date: 2025

_id: ObjectId('695d3d76409b86219b8cc6a9')
screener_id: "CS002"
student_id: "STU102"
resume_score: 72
target_role: "Backend Developer"
missing_skills: Array (2)
evaluation_date: 2025
```

4.NOT condition:

The screenshot shows the MongoDB Compass interface. The left sidebar lists connections: cs_table, admin, careerforge, cognitive_screener, config, local, m, me, and studyhivedb. The main area shows the 'cognitive_screener' collection under 'careerforge'. A query builder is open with the following query:

```
{ "resume_score": { "$ne": 72 } }
```

The results pane displays one document:

```
_id: ObjectId('695d3d56409b86219b8cc6a7')
screener_id: "CS001"
student_id: "STU101"
resume_score: 88
target_role: "Full Stack Developer"
missing_skills: Array (2)
evaluation_date: 2025
```

5.GREATER THAN / GREATER THAN OR EQUAL condition:

The screenshot shows the MongoDB Compass interface. On the left, the 'Connections' sidebar lists 'cs_table', 'admin', 'careerforge', and 'studyhivedb'. Under 'careerforge', the 'cognitive_screener' collection is selected. In the main panel, the 'Documents' tab is active, showing a search bar and a query builder. The query is set to `{ "resume_score": { "$gte": 75 } }`. Below the query, a document is displayed with the following fields and values:
`_id: ObjectId('695d3d56409b86219b8cc6a7')
screener_id: "CS001"
student_id: "STU101"
resume_score: 88
target_role: "Full Stack Developer"
missing_skills: Array (2)
evaluation_date: 2025`

6.LESS THAN / LESS THAN OR EQUAL condition:

The screenshot shows the MongoDB Compass interface. The connections and collection selection are identical to the previous screenshot. The 'Documents' tab is active, and the query builder shows the query `{ "resume_score": { "$lte": 80 } }`. A document is shown with the following fields and values:
`_id: ObjectId('695d3d76409b86219b8cc6a9')
screener_id: "CS002"
student_id: "STU102"
resume_score: 72
target_role: "Backend Developer"
missing_skills: Array (2)
evaluation_date: 2025`

DELETE OPERATIONS :

1.DELETE ONE & DELETE MANY:

The screenshot shows the MongoDB Compass interface with a mongo shell session open. The session history includes:
- Switching to the 'careerforge' database.
- Executing `db.cognitive_screener.deleteOne({ screener_id: "CS004" })`, which returns a document with fields: acknowledged: true, deletedCount: 1.
- Executing `db.cognitive_screener.deleteMany({ resume_score: { $lt: 70 } })`, which returns a document with fields: acknowledged: true, deletedCount: 0.
The 'cognitive_screener' collection is highlighted in the sidebar.

DROP OPERATION:

BEFORE DROP (check Left panel):

Connections Edit View Help

Welcome mongosh: cs_table +

Compass

My Queries Data Modeling

CONNECTIONS (2) X + ...

Search connections

cs_table admin careerforge cognitive_screener students_master config

_MONGOSH

```
> use careerforge
< switched to db careerforge
> db.cognitive_screener.drop()
< true
careerforge>
```

AFTER DROP (check Left panel):

Data Modeling

CONNECTIONS (2) X + ...

Search connections

cs_table admin careerforge students_master config local m me

studyhivedb.2yw98wb.mongodb.net

_MONGOSH

```
< switched to db careerforge
> db.cognitive_screener.drop()
< true
careerforge>
```