MongoDB Cheat Sheet

Basic commands

```
1. Connect to MongoDB: Different ways to connect using Mongoshell
1
      mongosh "URI"
      mongosh --host mongodb0.example.com --port 28015
2
      mongosh "mongodb://mongodb0.example.com:28015" --username alice --authenticationDatabase admin
1. Show databases
  show dbs
2. Switch database
  use <database_name>
3. Create a collection
  db.createCollection("<collection_name>")
4. Show collections in the current database
  show collections
5. Insert a document
  db.<collection_name>.insert({ field1: value1, field2: value2, ... })
6. Insert multiple documents
  db.<collection_name>.insertMany([document1, document2, ...])
7. Find documents
  db.<collection_name>.find()
```

Querying

```
1. Filter documents with a query
  db.<collection_name>.find({ field: value })
2. Equality query
  db.<collection_name>.find({ field: "value" })
3. Range query
          db.<collection_name>.find({ field: { $lt: value } })
    1
    2
          db.<collection_name>.find({ field: { $gt: value } })
    3
          db.<collection_name>.find({ field: { $1t: value, $gt: value } })
4. AND query
  db.<collection_name>.find({ field1: value1, field2: value2 })
5. OR query
  db.<collection_name>.find({ $or: [ { field1: value1 }, { field2: value2 } ] })
6. Sort ascending
  db.<collection_name>.find().sort({ field: 1 })
7. Sort descending
  db.<collection_name>.find().sort({ field: -1 })
```

Update and delete

Aggregation

Indexing

```
    Create a single field index
        db.<collection_name>.createIndex({ field: 1 })
    Create a compound index
        db.<collection_name>.createIndex({ field: 1, another_field: 1 })
    List all indexes
        db.<collection_name>.getIndexes()
```

Export and import data

```
    Export data to JSON
        mongoexport --db <database_name> --collection <collection_name> --out <output_file.json>

    Import data from JSON
        mongoimport --db <database_name> --collection <collection_name> --file <input_file.json>
```

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