Basic commands

```
1. Connect to MongoDB: Different ways to connect using Mongoshell
        mongosh "URI"
   1
        mongosh --host mongodb@.example.com --port 28015
        mongosh "mongodb://mongodb0.example.com:28015" --username alice --authenticationDatabase admin
  1. Show databases
     show dbs
  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 } })
             db.<collection name>.find({ field: { $gt: value } })
             db.<collection_name>.find({ field: { $lt: value, $gt: value } })
 4. AND query
     db.<collection name>.find({ field1: value1, field2: value2 })
 OR query
     db.<collection_name>.find({ $or: [ { field1: value1 }, { field2: value2 } ] })
```

7. Sort descending
 db.<collection_name>.find().sort({ field: -1 })

db.<collection name>.find().sort({ field: 1 })

6. Sort ascending

Update and delete

1. Update documents

```
db.<collection_name>.updateOne({ field: value }, { $set: { new_field: new_value } })
db.<collection_name>.updateMany({ field: value }, { $set: { new_field: new_value } })
```

2. Delete documents

```
db.<collection_name>.deleteOne({ field: value })
db.<collection_name>.deleteMany({ field: value })
```

Aggregation

1. Aggregation pipeline

Indexing

1. Create a single field index

```
db.<collection_name>.createIndex({ field: 1 })
```

2. Create a compound index

```
db.<collection_name>.createIndex({ field: 1, another_field: 1 })
```

3. 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>
```