

# Creating Databases and Collections

## 1. Databases

- a. Listing databases that exist in the MongoDB server.

- i. **Syntax**

- ```
show dbs
```

- b. Switching to an existing database or creating a new database.

- i. If a database exists, it will be reflected.
  - ii. If a database does not exist, it will still be reflected. Although the database has not been created yet.

- iii. **Syntax**

- ```
use <db_name>
```

- c. Creating a new database.

- i. To create a new database, a document needs to be inserted in it.
  - ii. Provide the collection to which document will be inserted. The collection will be created implicitly along with the database.
  - iii. Use the **insertOne()** method to insert a document.

- iv. **Syntax**

- ```
db.<collection_name>.insertOne(<document>)
```

- v. **Example**

- ```
db.user.insertOne({emp_id: 1, name: "Alice"})
```

- d. Checking which database is currently in use.

- i. **Syntax**

- ```
db
```

## 2. Collections

- a. Listing collections within a database.

- i. **Syntax**

- ```
show collections
```

- b. Creating a new collection.

- i. A collection is implicitly created while creating a database.

- ii. Explicitly a new collection can be created using **createCollection()** method.

- iii. **Syntax**

- ```
db.createCollection("<collection_name>")
```

- iv. **Example**

- ```
db.createCollection("dep")
```

- c. A database cannot have two collections with the same name.