Work Integrated
Learning Programmes

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Computer Science & Information Systems

Big Data Systems – MongoDB Lab Sheet:1

Creating and Deleting Database and Collections

1. Objective

Students should be able to

- A. Create and use a database
- B. Create a collection
- C. Drop a collection
- D. Drop a database

2. Steps to be performed

A. Create and use a database

The "Use" command

The use command is used to create database. The command will create a new database if it doesn't exist, otherwise it will return the existing database.

Syntax

Basic syntax of **use DATABASE** statement is as follows −

```
use DATABASE_NAME
```

Example

If you want to use a database with name **<mydb>**, use following command

```
>use mydb
```

A.3 The "show dbs" command

If you want to check your databases list, use the command **show dbs**.

```
>show dbs
```

B. Create a collection

The "createCollection()" command

MongoDB **db.createCollection(name, options)** is used to create collection.

Syntax

Basic syntax of **createCollection()** command is as follows −

```
db.createCollection(name, options)
```

In the command, **name** is name of collection to be created. **Options** is a document and is used to specify configuration of collection. Options parameter is optional, so you need to specify only the name of the collection.

Examples

Basic syntax of **createCollection()** method without options is as follows −

```
>use mydb
>db.createCollection("mycollection")
```

You can check the created collection by using the command **show collections**.

```
>show collections
```

C. Drop a collection

The "drop" command

MongoDB's **db.collection.drop()** is used to drop a collection from the database.

Syntax

Basic syntax of **drop()** command is as follows −

```
db.COLLECTION_NAME.drop()
```

Example

```
>use mydb
>show collections
>db.mycollection.drop()
>show collections
```

D. Drop a database

The "dropDatabase" command

MongoDB **db.dropDatabase()** command is used to drop a existing database.

Syntax

Basic syntax of **dropDatabase()** command is as follows −

```
db.dropDatabase()
```

This will delete the selected database. If you have not selected any database, then it will delete default 'test' database.

Example

If you want to delete new database **mydb**, then **dropDatabase()** command would be as −

```
>use mydb
>db.dropDatabase()
>show dbs
```

3. Outputs/Results

Students should be able to see following artifacts getting created

- Database
- Collection
- Document

4. Observations

Students needs to carefully observe the commands for

- Database creation and usage
- Collection creation and usage
- Collection and database drop

References

- [MongoDB documentation](#)