Finding the indexes in a collection

getIndexes() method in MongoDB is used to find all the indexes created on a collection.

Syntax

```javascript
db.collection_name.getIndexes()
```

Example:

To get all the indexes of `student` collection, the command will be:

```bash
> db.school.getIndexes()
```

```javascript
{
   "ns": "abc.school",
   "v": 2,
   "key": {
      "_id": 1
   },
   "name": "_id",
   "ns": "abc.school"
},
{
   "v": 2,
   "key": {
      "student count": -1
   },
   "name": "student count",  
   "ns": "abc.school"
},
{
   "v": 2,
   "key": {
      "class": -1,
      "section": 1
   },
   "name": "class",  
   "ns": "abc.school"
}
```

C:\Program Files\MongoDB\Server\4.2\bin\mongo.exe
The above example shows that **three** indexes are there in “student” collection. These are

- the default index created on _id with name "_id_",
- The single index we have created on “student name” field with name "student count_-1",
- The compound index we have created on “class” and “student count” with name "class_-1_section_1",

### Drop index(es) in a collection

1. **Dropping a index:**

   `dropIndex()` method is used to drop i.e. delete or remove a particular index on a collection.

   **Syntax**

   ```
   db.collection_name.dropIndex(index)
   ```

   where index can be either "index_name" for example, "student count_-1" or "class_-1_section_1",
   OR

   "index specification document" for example, { "student count" : -1} or { "class" : -1, "section" : 1}

   **Example:**

   ```
   db.school.dropIndex("student count_-1")
   ```

   will delete the index with index name “student count_-1”

   ![MongoDB dropIndex() example output]

   `nIndexesWas: 3` -- shows how many indexes were there before this command got executed i.e. 3
   `ok: 1:` -- means the command is executed successfully.
2. **For dropping a compound index:**

`dropIndexes()` method is used to drop, i.e. delete or remove, all the indexes on a collection except the index on the `_id` field.

**Syntax**

```
db.collection_name.dropIndexes()
```

without any parameter it will delete all indexes except on `_id` field, if we specify the “index_name” or “index specification document” it will delete that particular index and act like `db.collection_name.dropIndex()` method.

**Example**

```
db.student.dropIndexes() will delete all the indexes.
```

Msg: “non- _id indexes dropped for collection” – means that the default index _id will still remain and cannot be dropped.

`nIndexesWas: 3` --shows how many indexes were there before this command got executed i.e. 3

`ok: 1`: -- means the command is executed successfully.

**Assignment**

1. How to find index in collection in MongoDB?

2. How to drop index in collection in MongoDB? Explain with example.