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# BIG DATA ANALYTICS

# MONGODB

# Delete Document

<https://www.youtube.com/c/RASINENIMADANAMOHANA>

# MongoDB: Delete Document

# MongoDB: *Delete Document*

## The remove() Method:

MongoDB's **remove()** method is used to **remove** a document from the **collection**. **remove()** method accepts two parameters. *One* is **deletion criteria** and *second* is **justOne flag**.

- **deletion criteria:** (Optional) deletion criteria according to documents will be removed.
- **justOne:** (Optional) if set to **true** or **1**, then remove only one document.

# MongoDB: *Delete Document*

## The `remove()` Method: *Syntax*

Basic syntax of `remove()` method is as follows:

```
>db.COLLECTION_NAME.remove(DELETION_CRITERIA)
```

# MongoDB: *Delete Document*

## The `remove()` Method: *Example*

Consider the **EmployeeDetails** collection has the following data:

```
> db.EmployeeDetails.find().pretty()
```

# MongoDB: *Delete Document*

## The remove() Method: *Example*

```
Command Prompt - mongo
> db.EmployeeDetails.find().pretty()
{
  "_id" : ObjectId("634c366412c650f5e845ddcd"),
  "First_Name" : "Rasineni Madana",
  "Last_Name" : "Mohana",
  "Age" : "42",
  "e_mail" : "rmmnaidu@gmail.com",
  "phone" : "0123456789"
}
{
  "_id" : ObjectId("634c366412c650f5e845ddce"),
  "First_Name" : "R Madana",
  "Last_Name" : "Mohana",
  "Age" : "46",
  "e_mail" : "r2431663@yahoo.com",
  "phone" : "9876543210"
}
{
  "_id" : ObjectId("634c366412c650f5e845ddcf"),
  "First_Name" : "Madana Mohana",
  "Last_Name" : "Rasineni",
  "Age" : "47",
  "e_mail" : "madanmohanan@gmail.com",
  "phone" : "9440793154"
}
```



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## The `remove()` Method: *Example*

Following example will **remove** all the documents whose **'First\_Name'** is **'Madana Mohana'**:

```
>db.EmployeeDetails.remove({'First_Name': 'Madana Mohana'})
```

```
WriteResult({'nRemoved' : 1})
```

# MongoDB: *Delete Document*

## The remove() Method: *Example*

### Output:

```
> db.EmployeeDetails.find().pretty()
```



# MongoDB: *Delete Document*

## The remove() Method: *Example*

### Output:

```
Command Prompt - mongo
> db.EmployeeDetails.remove({'First_Name':'Madana Mohana'})
WriteResult({ "nRemoved" : 1 })
> db.EmployeeDetails.find().pretty()
{
  "_id" : ObjectId("634c366412c650f5e845ddcd"),
  "First_Name" : "Rasineni Madana",
  "Last_Name" : "Mohana",
  "Age" : "42",
  "e_mail" : "rmmnaidu@gmail.com",
  "phone" : "0123456789"
}
{
  "_id" : ObjectId("634c366412c650f5e845ddce"),
  "First_Name" : "R Madana",
  "Last_Name" : "Mohana",
  "Age" : "46",
  "e_mail" : "r2431663@yahoo.com",
  "phone" : "9876543210"
}
```

# MongoDB: *Delete Document*

## The remove Only One:

If there are **multiple records** and we want to **delete** only the **first record**, then set **justOne** parameter in **remove()** method.

## Syntax:

```
>db.COLLECTION_NAME.remove(DELETION_CRITERIA, 1)
```

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## The remove Only One: *Example*

```
> db.blogspost.find().pretty()
```

```
Select Command Prompt - mongo
> db.blogspost.find().pretty()
{
  "_id" : ObjectId("634b8d4c12c650f5e845ddc7"),
  "title" : "Big Data Analytics",
  "description" : "Chapter-3 is MongoDB",
  "by" : "IT Department",
  "url" : "https://www.mongodb.com/",
  "tags" : [
    "mongodb",
    "database",
    "NoSQL"
  ],
  "likes" : 100
}
{
  "_id" : ObjectId("634b8d4c12c650f5e845ddc8"),
  "title" : "Big Data Analytics Lab",
  "description" : "Big Data Analytics lab is related to BDA Course",
  "by" : "IT Department",
  "url" : "https://www.mongodb.com/",
  "tags" : [
    "mongodb",
    "database",
    "NoSQL"
  ],
  "likes" : 100
}
```

# MongoDB: *Delete Document*

## The remove Only One: *Example*

The *following example* deletes the **first document** matching by **IT Department** from collection **blogspost**:

```
> db.blogspost.remove({'by' : 'IT  
Department'}, 1)  
WriteResult({ "nRemoved" : 1 })
```

# MongoDB: *Delete Document*

## The remove Only One: *Example*

```
> db.blogspost.find().pretty()
```

```
Command Prompt - mongo
> db.blogspost.find().pretty()
{
  "_id" : ObjectId("634b8d4c12c650f5e845ddc8"),
  "title" : "Big Data Analytics Lab",
  "description" : "Big Data Analytics lab is related to BDA Course",
  "by" : "IT Department",
  "url" : "https://www.mongodb.com/",
  "tags" : [
    "mongodb",
    "database",
    "NoSQL"
  ],
  "likes" : 50,
  "comments" : [
    {
      "user" : "user1",
      "message" : "My first comment",
      "dateCreated" : ISODate("2022-12-09T21:05:00Z"),
      "like" : 10
    }
  ]
}
```

# MongoDB: *Delete Document*

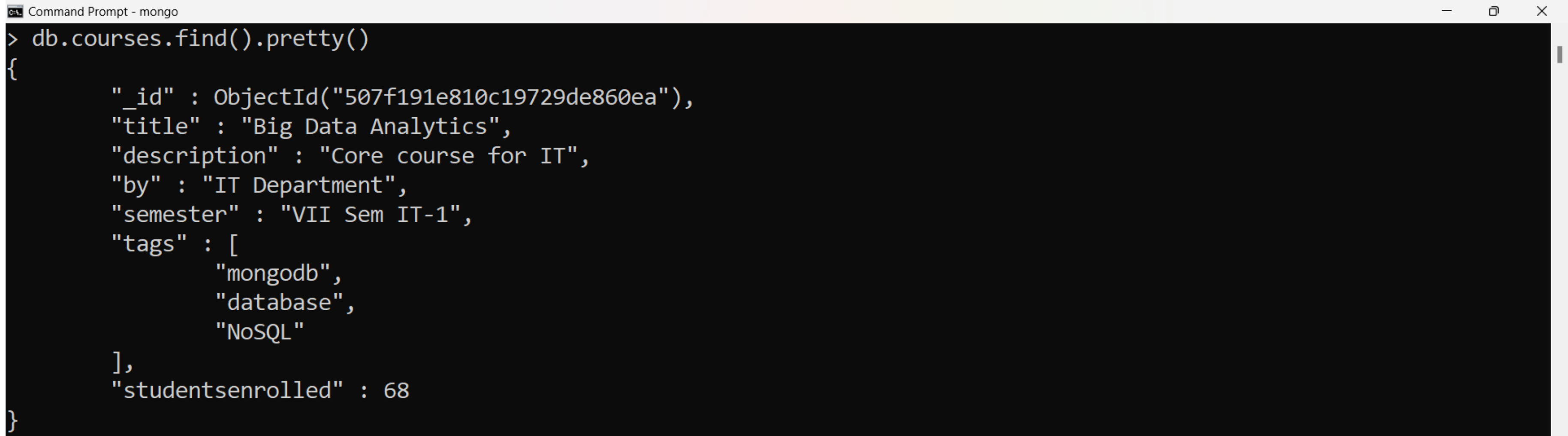
## Remove All Documents:

- If we don't specify **deletion criteria**, then **MongoDB** will **delete** whole documents from the **collection**.
- This is equivalent of **SQL's truncate** command.

# MongoDB: *Delete Document*

## Remove All Documents: *Example*

```
> db.courses.find().pretty()
```



```
Command Prompt - mongo
> db.courses.find().pretty()
{
  "_id" : ObjectId("507f191e810c19729de860ea"),
  "title" : "Big Data Analytics",
  "description" : "Core course for IT",
  "by" : "IT Department",
  "semester" : "VII Sem IT-1",
  "tags" : [
    "mongodb",
    "database",
    "NoSQL"
  ],
  "studentsenrolled" : 68
}
```



# MongoDB: *Delete Document*

## Remove All Documents: *Example*

```
> db.courses.remove({})
```

```
WriteResult({ "nRemoved" : 1 })
```

```
> db.courses.find().pretty()
```



Command Prompt - mongo

```
> db.courses.remove({})
```

```
WriteResult({ "nRemoved" : 1 })
```

```
> db.courses.find().pretty()
```