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BIG DATA ANALYTICS

MONGODB

Limit Records

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MongoDB: Limit Records

MongoDB: *Limit Records*

The `limit()` Method:

- To **limit** the records in **MongoDB**, we need to use **limit()** method.
- The method accepts *one number type argument*, which is the **number of documents** that we want to be displayed.

MongoDB: *Limit Records*

The `limit()` Method: *Syntax*

The basic syntax of `limit()` method is as follows:

```
>db.COLLECTION_NAME.find().limit(NUMBER)
```

MongoDB: *Limit Records*

The limit() Method: *Example*

```
> show dbs
```

```
admin          0.000GB
```

```
config         0.000GB
```

```
local          0.000GB
```

```
mydb           0.000GB
```

```
sampleDB      0.000GB
```

```
test           0.000GB
```

```
> use test
```

```
switched to db test
```

MongoDB: *Limit Records*

The limit() Method: *Example*

```
> show collections
```

```
Employee
```

```
EmployeeDetails
```

```
Softwareemployee
```

```
bdacollection
```

```
blogspost
```

```
courses
```

```
mongodbcollection
```

```
mycollection
```

```
softwareemployee
```

MongoDB: *Limit Records*

The limit() Method: *Example*

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

```
Command Prompt - mongo
> db.Employee.find().pretty()
{
  "_id" : ObjectId("634bfe4112c650f5e845ddc9"),
  "First_Name" : "Rasineni Madana",
  "Last_Name" : "Mohana",
  "Date_Of_Birth" : "1980-12-26",
  "e_mail" : "rmmnaidu@yahoo.co.in",
  "phone" : "0123456789",
  "Age" : "35"
}
{
  "_id" : ObjectId("634c03ef12c650f5e845ddca"),
  "First_Name" : "Rasineni Madana",
  "Last_Name" : "Mohana",
  "Date_Of_Birth" : "1981-06-15",
  "e_mail" : "rmmnaidu@gmail.com",
  "phone" : "0123456789"
}
{
  "_id" : ObjectId("634c03ef12c650f5e845ddcb"),
  "First_Name" : "Madan",
  "Last_Name" : "Mohan",
  "Date_Of_Birth" : "1980-12-26",
  "e_mail" : "rmmnaidu@gmail.com",
  "phone" : "9876543210",
  "Age" : "35"
}
```


MongoDB: *Limit Records*

The `limit()` Method: *Example*

Following example will display only specified number of documents while querying the document.

```
> db.Employee.find().pretty().limit(2)
```

```
Command Prompt - mongo
> db.Employee.find().pretty().limit(2)
{
  "_id" : ObjectId("634bfe4112c650f5e845ddc9"),
  "First_Name" : "Rasineni Madana",
  "Last_Name" : "Mohana",
  "Date_Of_Birth" : "1980-12-26",
  "e_mail" : "rmmnaidu@yahoo.co.in",
  "phone" : "0123456789",
  "Age" : "35"
}
{
  "_id" : ObjectId("634c03ef12c650f5e845ddca"),
  "First_Name" : "Rasineni Madana",
  "Last_Name" : "Mohana",
  "Date_Of_Birth" : "1981-06-15",
  "e_mail" : "rmmnaidu@gmail.com",
  "phone" : "0123456789"
}
```


MongoDB: *Limit Records*

The limit() Method: *Example*

```
> db.Employee.find().pretty().limit(1)
```

```
Command Prompt - mongo
> db.Employee.find().pretty().limit(1)
{
  "_id" : ObjectId("634bfe4112c650f5e845ddc9"),
  "First_Name" : "Rasineni Madana",
  "Last_Name" : "Mohana",
  "Date_Of_Birth" : "1980-12-26",
  "e_mail" : "rmmnaidu@yahoo.co.in",
  "phone" : "0123456789",
  "Age" : "35"
}
```

MongoDB: *Limit Records*

The `limit()` Method: *Example*

If we **don't specify** the number argument in **`limit()`** method then it will display **all documents** from the **collection**.

```
> db.Employee.find().pretty().limit()
```

```
Command Prompt - mongo
> db.Employee.find().pretty().limit()
{
  "_id" : ObjectId("634bfe4112c650f5e845ddc9"),
  "First_Name" : "Rasineni Madana",
  "Last_Name" : "Mohana",
  "Date_Of_Birth" : "1980-12-26",
  "e_mail" : "rmmnaidu@yahoo.co.in",
  "phone" : "0123456789",
  "Age" : "35"
}
{
  "_id" : ObjectId("634c03ef12c650f5e845ddca"),
  "First_Name" : "Rasineni Madana",
  "Last_Name" : "Mohana",
  "Date_Of_Birth" : "1981-06-15",
  "e_mail" : "rmmnaidu@gmail.com",
  "phone" : "0123456789"
}
{
  "_id" : ObjectId("634c03ef12c650f5e845ddcb"),
  "First_Name" : "Madan",
  "Last_Name" : "Mohan",
  "Date_Of_Birth" : "1980-12-26",
  "e_mail" : "rmmnaidu@gmail.com",
  "phone" : "9876543210",
  "Age" : "35"
}
```

MongoDB: *Limit Records*

The `limit()` Method: *Example*

The following example displays a particular field with `limit()` method.

```
> db.Employee.find({"First_Name":1,_id:0}).pretty().limit(2)
```

```
Command Prompt - mongo
> db.Employee.find({},{"First_Name":1,_id:0}).pretty().limit(2)
{ "First_Name" : "Rasineni Madana" }
{ "First_Name" : "Rasineni Madana" }
> db.Employee.find({},{"First_Name":1,_id:0}).pretty().limit(3)
{ "First_Name" : "Rasineni Madana" }
{ "First_Name" : "Rasineni Madana" }
{ "First_Name" : "Madan" }
> db.Employee.find({},{"First_Name":1,_id:0}).pretty().limit(4)
{ "First_Name" : "Rasineni Madana" }
{ "First_Name" : "Rasineni Madana" }
{ "First_Name" : "Madan" }
{ "First_Name" : "Madana Mohana" }
> db.Employee.find({},{"First_Name":1,_id:0}).pretty().limit(1)
{ "First_Name" : "Rasineni Madana" }
> db.Employee.find({},{"First_Name":1,_id:0}).pretty().limit()
{ "First_Name" : "Rasineni Madana" }
{ "First_Name" : "Rasineni Madana" }
{ "First_Name" : "Madan" }
{ "First_Name" : "Madana Mohana" }
```

MongoDB: *Limit Records*

MongoDB skip() Method:

Apart from **limit()** method, there is one more method **skip()** which also accepts **number type argument** and is used to **skip** the **number of documents**.

MongoDB skip() Method: *Syntax*

The basic syntax of **skip()** method is as follows:

```
>db.COLLECTION_NAME.find().limit(NUMBER).skip(NUMBER)
```

MongoDB: *Limit Records*

MongoDB skip() Method: *Example*

Following example will display the **selected documents** by **excluding skip documents**:

```
> db.Employee.find({}, {"First_Name":1, _id:0}).pretty().limit()
```

Command Prompt - mongo

```
> db.Employee.find({}, {"First_Name":1, _id:0}).pretty().limit()
{ "First_Name" : "Rasineni Madana" }
{ "First_Name" : "Rasineni Madana" }
{ "First_Name" : "Madan" }
{ "First_Name" : "Madana Mohana" }
```

MongoDB: *Limit Records*

MongoDB skip() Method: *Example*

Following example will display the **selected documents** by **excluding skip documents**:

```
> db.Employee.find({},  
{"First_Name":1,_id:0}).pretty().limit().skip(1)
```

Command Prompt - mongo

```
> db.Employee.find({},{"First_Name":1,_id:0}).pretty().limit().skip(1)  
{ "First_Name" : "Rasineni Madana" }  
{ "First_Name" : "Madan" }  
{ "First_Name" : "Madana Mohana" }
```


MongoDB: *Limit Records*

MongoDB skip() Method: *Example*

Following example will display the **selected documents** by **excluding skip documents**:

```
> db.Employee.find({},  
{"First_Name":1,_id:0}).pretty().limit(1).skip(1)
```

```
> db.Employee.find({},  
{"First_Name":1,_id:0}).pretty().limit(2).skip(1)
```

```
> db.Employee.find({},  
{"First_Name":1,_id:0}).pretty().limit(2).skip(2)
```

MongoDB: *Limit Records*

MongoDB skip() Method: *Example*

Following example will display the **selected documents** by **excluding skip documents**:

Command Prompt - mongo

```
> db.Employee.find({}, {"First_Name":1, _id:0}).pretty().limit(1).skip(1)
{ "First_Name" : "Rasineni Madana" }
> db.Employee.find({}, {"First_Name":1, _id:0}).pretty().limit(2).skip(1)
{ "First_Name" : "Rasineni Madana" }
{ "First_Name" : "Madan" }
> db.Employee.find({}, {"First_Name":1, _id:0}).pretty().limit(2).skip(2)
{ "First_Name" : "Madan" }
{ "First_Name" : "Madana Mohana" }
> _
```