

## Task 2: Entering data

Imagine we have the following dataset

```
{
  "type": "Book",
  "Title": "Around the World in 100 days",
  "ISBN": "987-1-4302-5821-6",
  "Publisher": "WonderBooks",
  "Author": [ "Jules Verne", "Jane Austen" ]
},
{
  "Type": "CD",
  "Artist": "Nirvana",
  "Title": "Nevermind",
  "Genre": "Grunge",
  "Releasedate": "1991.09.24",
  "Tracklist": [
    {
      "Track" : "1",
      "Title" : "Smells Like Teen Spirit",
      "Length" : "5:02"
    },
    {
      "Track" : "2",
      "Title" : "In Bloom",
      "Length" : "4:15"
    }
  ]
}
```

We can create a **document** object.

```
book = ({ "Type": "Book", "Title" : "Around the World in 100 days", "ISBN" : "978-1-4302-5821-6", "Publisher": "Apress", "Author": [ "Jules Verne", "Jane Austen" ] })
```

After you entered, it will display with tidy and aligned presentation.

We can insert the **document** object into database.

```
db.media.insert(book)
```

Then we create the next record.

```
cd = ({ "Type": "CD", "Artist": "Nirvana", "Title": "Nevermind", "Tracklist": [ { "Track": "1", "Title": "Smells Like Teen Spirit", "Length": "5:02" }, { "Track": "2", "Title": "In Bloom", "Length": "4:15" } ] })
```

Repeat the same command above and add cd into **media** table.

## Task 3: Query Data

To get all the records in the table, we can do

```
db.media.find()
```

We can also find records based on certain property, e.g.

```
db.media.find ( { Artist : "Nirvana" } )
```

We can also make use of dot notation to search, even inside an array.

```
db.media.find( { "Tracklist.Title" : "In Bloom" } )
```

```
db.media.find( { "Author" : "Jules Verne" } )
```

We can access a single record using:

```
db.media.findOne()
```

And to find unique records of some property:

```
db.media.distinct("Title")
```

## Task 4: Add more data

Let's add a few more DVDs now, to test out other MongoDB features.

```
dvd = ( {  
  "Type": "DVD",  
  "Title": "Matrix, The",  
  "Released": 1999,  
  "Cast": [ "Keanu Reeves", "Carrie-Anne Moss", "Laurence Fishburne", "Hugo  
Weaving", "Gloria Foster", "Joe Pantoliano" ]  
})  
db.media.insert(dvd)  
  
dvd = ( { "Type" : "DVD", Title : "Blade Runner", Released : 1982 } )  
db.media.insert(dvd)  
  
dvd = ( { "Type" : "DVD", Title : "Toy Story 3", Released : 2010 } )  
db.media.insert(dvd)
```

## Task 5: Query using operators

To find using **greater than** operator.

```
db.media.find ( { Released : {$gt : 2000} }, { "Cast" : 0 } )
```

We can also use \$gte (greater than or equal to)

```
db.media.find ( { Released : {$gte : 1999} }, { "Cast" : 0 } )
```