

```
1show dbs
```

Displays Database

```
use sample
```

Creates Database and can be used

Creating Collections

```
db.product.insert({name:"iphone4s" });
```

```
db.product.insert({
name:"iphone4s",
stock_in:"250",
price:"$300",
comments:"good to buy",
colours:["red","green","black"],
saved_on:new Date() });
```

```
db.product.insert({
name:{first:"apple",middle:"iphone",last:"5"},
price:"$299",
colours:["red","blue"],
comments:["1.good","2.very good"]
})
```

Insert a documents using a variable

```
var doc={};
> doc.name="iphone 5c";
iphone 5c
> doc.price="$390";
$390
> doc.stock_in="21";
21
> doc.comments=["1.good features","2.Very good look n feel"];
[ "1.good features", "2.Very good look n feel" ]
> doc.saved_on=new Date
ISODate("2014-07-06T03:44:39.908Z")
```

```
> doc.meta={}
{ }
> doc.meta.browser="google chrome"
google chrome
> doc.meta.os="fedora 19"
fedora 19
```

```
> doc
{
  "name" : "iphone 5c",
  "price" : "$390",
  "stock_in" : "21",
  "comments" : [
    "1.good features",
    "2.Very good look n feel"
  ],
  "saved_on" : ISODate("2014-07-06T03:44:39.908Z"),
  "meta" : {
    "browser" : "google chrome",
    "os" : "fedora 19"
  }
}
```

```
db.product.insert(doc)
```

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is used to insert the document

```
db.product.save(doc)
```

can also used to insert document

Display

```
db.product.find()
```

used to display documents but cant display in order

```
db.product.find().pretty()
```

used to display in JSON format

output as follows

```
{ "_id" : ObjectId("53b8bfec96f446d5dff78982"), "name" : "iphone4s" }
{
  "_id" : ObjectId("53b8c08296f446d5dff78983"),
  "name" : "iphone4s",
  "stock_in" : "250",
  "price" : "$300",
  "comments" : "good to buy",
  "colours" : [
    "red",
    "green",
    "black"
  ],
  "saved_on" : ISODate("2014-07-06T03:20:34.041Z")
}
{
  "_id" : ObjectId("53b8c755a72b72b2f84427b4"),
  "name" : "iphone 5c",
  "price" : "$390",
  "stock_in" : "21",
  "comments" : [
    "1.good features",
    "2.Very good look n feel"
  ],
  "saved_on" : ISODate("2014-07-06T03:44:39.908Z"),
  "meta" : {
    "browser" : "google chrome",
    "os" : "fedora 19"
  }
}
```

```
db.product.find().forEach(printjson)
```

This can also be used to print json format

```
db.product.find()[0]._id
```

displays object id of first record

```
> db.product.find()[1]._id
```

displays object id of second record

```
ObjectId("53b8c08296f446d5dff78983")
```

```
> db.product.find()[1]._id.getTimestamp()
```

displays Time stamp of second record

```
ISODate("2014-07-06T03:20:34Z")
```

Use of _id

```
db.product.insert({_id:3,name:"Nokia"})
```

created as 4th Document

```
{ "_id" : ObjectId("53b8bfec96f446d5dff78982"), "name" : "iphone4s" }
```

```
{
  "_id" : ObjectId("53b8c08296f446d5dff78983"),
  "name" : "iphone4s",
  "stock_in" : "250",
  "price" : "$300",
  "comments" : "good to buy",
  "colours" : [
    "red",
    "green",
    "black"
  ],
  "saved_on" : ISODate("2014-07-06T03:20:34.041Z")
}
```

```
{
  "_id" : ObjectId("53b8c755a72b72b2f84427b4"),
  "name" : "iphone 5c",
  "price" : "$390",
  "stock_in" : "21",
  "comments" : [
    "1.good features",
    "2.Very good look n feel"
  ],
  "saved_on" : ISODate("2014-07-06T03:44:39.908Z"),
  "meta" : {
    "browser" : "google chrome",
    "os" : "fedora 19"
  }
}
```

```
}
{ "_id" : 3, "name" : "Nokia" }
```

```
{ "_id" : 4, "name" : "Nokia Lminous", "price" : "20000rs" }
```

```
{
  "_id" : ObjectId("53b8db6aa72b72b2f84427b5"),
  "name" : {
    "first" : "apple",
    "middle" : "iphone",
    "last" : "5"
  },
  "price" : "$299",
  "colours" : [
    "red",
    "blue"
  ],
  "comments" : [
    "1.good",
    "2.very good"
  ]
}
```

```
{
  "_id" : ObjectId("53b8dc45a72b72b2f84427b6"),
  "name" : {
    "first" : "apple",
    "middle" : "iphone",
    "last" : "6c"
  },
  "price" : "$299",
  "olours" : [
    "red",
    "blue",
    "black"
  ],
  "comments" : [
    "1.good",
    "2.very good"
  ]
}
```

```
> db.product.insert({_id:3,name:"Nokia Lminous",price:"20000rs"}) 4
```

E11000 duplicate key error index: sample.product.\$_id_ dup key: { : 3.0 }

Error is because of Already Existed Key

```
> db.product.find()[3]
```

```
{ "_id" : 3, "name" : "Nokia" }
```

displayed 4th document

```
> db.product.find()[4]
```

```
{ "_id" : 4, "name" : "Nokia Lminous", "price" : "20000rs" }
```

displayed 5th document

Display a document wher name is iphone 5c

```
> db.product.findOne({name:"iphone 5c"})
```

```
{
  "_id" : ObjectId("53b8c755a72b72b2f84427b4"),
  "name" : "iphone 5c",
  "price" : "$390",
  "stock_in" : "21",
  "comments" : [
    "1.good features",
    "2.Very good look n feel"
  ],
  "saved_on" : ISODate("2014-07-06T03:44:39.908Z"),
  "meta" : {
    "browser" : "google chrome",
    "os" : "fedora 19"
  }
}
```

```
db.product.find({name:"iphone 5c"}).pretty()
```

```
{
  "_id" : ObjectId("53b8c755a72b72b2f84427b4"),
  "name" : "iphone 5c",
  "price" : "$390",
  "stock_in" : "21",
  "comments" : [
    "1.good features",
    "2.Very good look n feel"
  ],
  "saved_on" : ISODate("2014-07-06T03:44:39.908Z"),
  "meta" : {
    "browser" : "google chrome",
    "os" : "fedora 19"
  }
}
```

```
db.product.findOne({name:"iphone 5c"}).price
```

\$390

```
>db.product.find({name:"iphone 5c"},{stock_in:1,comments:true })
```

```
{ "_id" : ObjectId("53b8c755a72b72b2f84427b4"), "stock_in" : "21", "comments" : [ "1.good features", "2.Very good look n feel" ] }
```

```
> db.product.find({name:"iphone 5c"},{stock_in:1,comments:true }).pretty() 5
{
  "_id" : ObjectId("53b8c755a72b72b2f84427b4"),
  "stock_in" : "21",
  "comments" : [
    "1.good features",
    "2.Very good look n feel"
  ]
}
```

```
> db.product.find({name:"iphone 5c"},{stock_in:1,comments:1 }).pretty()
{
  "_id" : ObjectId("53b8c755a72b72b2f84427b4"),
  "stock_in" : "21",
  "comments" : [
    "1.good features",
    "2.Very good look n feel"
  ]
}
```

```
> db.product.find({name:"iphone 5c"},{comments:0 }).pretty()
{
  "_id" : ObjectId("53b8c755a72b72b2f84427b4"),
  "name" : "iphone 5c",
  "price" : "$390",
  "stock_in" : "21",
  "saved_on" : ISODate("2014-07-06T03:44:39.908Z"),
  "meta" : {
    "browser" : "google chrome",
    "os" : "fedora 19"
  }
}
```

```
> db.product.find({name:"iphone4s",colours:"red"},{stock_in:0 }).pretty()
{
  "_id" : ObjectId("53b8c08296f446d5dff78983"),
  "name" : "iphone4s",
  "price" : "$300",
  "comments" : "good to buy",
  "colours" : [
    "red",
    "green",
    "black"
  ],
  "saved_on" : ISODate("2014-07-06T03:20:34.041Z")
}
```

```
> db.product.find({name:"iphone4s",colours:"red"},{stock_in:1 }).pretty()
{ "_id" : ObjectId("53b8c08296f446d5dff78983"), "stock_in" : "250" }
```

```
> db.product.find({name:"iphone 5c"},{stock_in:1,comments:1,_id:0 }).pretty()
{
  "stock_in" : "21",
  "comments" : [
    "1.good features",
    "2.Very good look n feel"
  ]
}
```

```
> db.product.find({"name.first":"apple"}).pretty()
```

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```
{
  "_id" : ObjectId("53b8db6aa72b72b2f84427b5"),
  "name" : {
    "first" : "apple",
    "middle" : "iphone",
    "last" : "5"
  },
  "price" : "$299",
  "colours" : [
    "red",
    "blue"
  ],
  "comments" : [
    "1.good",
    "2.very good"
  ]
}
{
  "_id" : ObjectId("53b8dc45a72b72b2f84427b6"),
  "name" : {
    "first" : "apple",
    "middle" : "iphone",
    "last" : "6c"
  },
  "price" : "$299",
  "colours" : [
    "red",
    "blue",
    "black"
  ],
  "comments" : [
    "1.good",
    "2.very good"
  ]
}
```

```
> db.product.find({"name.first":"apple"}, {"name.last":1}).pretty()
```

```
{
  "_id" : ObjectId("53b8db6aa72b72b2f84427b5"),
  "name" : {
    "last" : "5"
  }
}
{
  "_id" : ObjectId("53b8dc45a72b72b2f84427b6"),
  "name" : {
    "last" : "6c"
  }
}
```

```
> db.product.find({"name.first":"apple"}, {"name.last":1, _id:0}).pretty()
```

```
{ "name" : { "last" : "5" } }
{ "name" : { "last" : "6c" } }
```