**Normalization of Blog**

**For creating a new Document**

use blogdb

**For pushing the image file to mongoDB**

./mongofiles -d blogdb put ScreenShot.png

./../../MongoImage –d blogdb put Blog1

./../../MongoImage –d blogdb put Blog2

./../../MongoImage –d blogdb put Blog3

Note: Provide absolute path of the image files to load it to mongoDB

**For displaying the inserted image file**

db.fs.files.find().pretty()

{

"\_id" : ObjectId("58584c9b53edbe35958f35e6"),

"chunkSize" : 261120,

"uploadDate" : ISODate("2016-12-19T21:09:47.325Z"),

"length" : 847733,

"md5" : "0aeda2c2aeedc398be36a754d07d64b3",

"filename" : "ScreenShot.png"

}

{

"\_id" : ObjectId("5858995053edbe365ae2876a"),

"chunkSize" : 261120,

"uploadDate" : ISODate("2016-12-20T02:37:04.936Z"),

"length" : 42289,

"md5" : "6c9446f34435d2af3219de956b3a889b",

"filename" : "../../MongoImage/Blog1.jpg"

}

{

"\_id" : ObjectId("5858996353edbe365c7470c9"),

"chunkSize" : 261120,

"uploadDate" : ISODate("2016-12-20T02:37:23.767Z"),

"length" : 78614,

"md5" : "fa162d497ce6f3315396048998f96b8c",

"filename" : "../../MongoImage/Blog2.png"

}

{

"\_id" : ObjectId("5858996d53edbe365d6b0edf"),

"chunkSize" : 261120,

"uploadDate" : ISODate("2016-12-20T02:37:33.400Z"),

"length" : 51430,

"md5" : "001aaf9d9cb950a032497891d7bec063",

"filename" : "../../MongoImage/Blog3.jpg"

}

**For creating new collections inside the database**

db.createCollection("Blog\_user")

db.createCollection("Blog\_comment");  
db.createCollection("Blog\_like");  
db.createCollection("Blog\_post");

**For displaying the created collections**

show collections

Blog\_comment

Blog\_like

Blog\_post

Blog\_user

Blog\_user\_normal

fs.chunks

fs.files

**For displaying all the records of Blog\_user**

db.Blog\_user.find().pretty()

{

"\_id" : ObjectId("53402597d852426020000021"),

"User\_name" : "Yashaswini",

"User\_email" : "yashuhl@gmail.com",

"Password" : "vinay",

"Admin\_flag" : "No",

"User\_image" : {

"$ref" : "fs.files",

"\_id" : ObjectId("5858995053edbe365ae2876a"),

"$db" : "blogdb"

},

"DOB" : "01-01-1987",

"Following" : [

"53402597d852426020000022",

"53402597d852426020000023"

],

"Followed\_by" : [

"53402597d852426020000061",

"53402597d852426020000062",

"53402597d852426020000063",

"53402597d852426020000064",

"53402597d852426020000022",

"53402597d852426020000023"

],

"created\_timestamp" : "2015/09/01 12:33:33",

"Modify\_timestamp" : "2016/11/01 12:33:33",

"Modifier\_user\_id" : "53402597d852426020000011"

}

{

"\_id" : ObjectId("53402597d852426020000022"),

"User\_name" : "Sriram",

"User\_email" : "sriram@gmail.com",

"Password" : "default",

"Admin\_flag" : "No",

"DOB" : "01-10-1988",

"Following" : [

"53402597d852426020000023"

],

"Followed\_by" : [

"53402597d852426020000061",

"53402597d852426020000062",

"53402597d852426020000063",

"53402597d852426020000064",

"53402597d852426020000021",

"53402597d852426020000024"

],

"created\_timestamp" : "2015/08/01 12:33:33",

"Modify\_timestamp" : "2016/11/01 11:33:33",

"Modifier\_user\_id" : "53402597d852426020000022"

}

{

"\_id" : ObjectId("53402597d852426020000023"),

"User\_name" : "Sridhar",

"User\_email" : "sridhar@gmail.com",

"Password" : "password",

"Admin\_flag" : "No",

"DOB" : "01-10-1988",

"Following" : [

"53402597d852426020000024"

],

"Followed\_by" : [

"53402597d852426020000065",

"53402597d852426020000066",

"53402597d852426020000067",

"53402597d852426020000068",

"53402597d852426020000021",

"53402597d852426020000022"

],

"created\_timestamp" : "2015/07/01 12:33:33",

"Modify\_timestamp" : "2016/11/01 12:33:33",

"Modifier\_user\_id" : "53402597d852426020000011"

}

{

"\_id" : ObjectId("53402597d852426020000024"),

"User\_name" : "Mihir",

"User\_email" : "mihir@gmail.com",

"Password" : "mihir",

"Admin\_flag" : "No",

"DOB" : "01-09-1992",

"Following" : [

"53402597d852426020000022"

],

"Followed\_by" : [

"53402597d852426020000065",

"53402597d852426020000066",

"53402597d852426020000067",

"53402597d852426020000068",

"53402597d852426020000023",

"53402597d852426020000025"

],

"created\_timestamp" : "2015/06/01 12:33:33",

"Modify\_timestamp" : "2016/11/01 12:33:33",

"Modifier\_user\_id" : "53402597d852426020000024"

}

{

"\_id" : ObjectId("53402597d852426020000025"),

"User\_name" : "Divya",

"User\_email" : "divya@gmail.com",

"Password" : "vinay",

"Admin\_flag" : "No",

"DOB" : "01-09-1987",

"Following" : [

"53402597d852426020000024"

],

"Followed\_by" : [

"53402597d852426020000068",

"53402597d852426020000069",

"53402597d852426020000070"

],

"created\_timestamp" : "2015/07/01 12:33:33",

"Modify\_timestamp" : "2016/11/01 12:33:33",

"Modifier\_user\_id" : "53402597d852426020000025"

}

**For displaying any particular record from Blog\_user**

db.Blog\_user.findOne({"User\_name" : "Yashaswini"})

{

"\_id" : ObjectId("53402597d852426020000021"),

"User\_name" : "Yashaswini",

"User\_email" : "yashuhl@gmail.com",

"Password" : "vinay",

"Admin\_flag" : "No",

"User\_image" : {

"$ref" : "fs.files",

"\_id" : ObjectId("5858995053edbe365ae2876a"),

"$db" : "blogdb"

},

"DOB" : "01-01-1987",

"Following" : [

"53402597d852426020000022",

"53402597d852426020000023"

],

"Followed\_by" : [

"53402597d852426020000061",

"53402597d852426020000062",

"53402597d852426020000063",

"53402597d852426020000064",

"53402597d852426020000022",

"53402597d852426020000023"

],

"created\_timestamp" : "2015/09/01 12:33:33",

"Modify\_timestamp" : "2016/11/01 12:33:33",

"Modifier\_user\_id" : "53402597d852426020000011"

}

**For displaying the count of records of Blog\_user**

db.Blog\_user.aggregate([{$group : {\_id : "\_id", Celebraty\_total: {$sum : 1}}}])

{ "\_id" : "\_id", "Celebraty\_total" : 5 }

**For identifying the records modified only by admin, from Blog\_user**

db.Blog\_user.aggregate([ { $match: { "Modifier\_user\_id" : "53402597d852426020000011" }},

{ $group: { \_id: "User\_name", total: { $sum: 1}}},

{ $sort: { total: -1 } }])

{ "\_id" : "User\_name", "total" : 2 }

db.Blog\_user.find({"Modifier\_user\_id" : "53402597d852426020000011"}).pretty()

{

"\_id" : ObjectId("53402597d852426020000021"),

"User\_name" : "Yashaswini",

"User\_email" : "yashuhl@gmail.com",

"Password" : "vinay",

"Admin\_flag" : "No",

"User\_image" : {

"$ref" : "fs.files",

"\_id" : ObjectId("5858995053edbe365ae2876a"),

"$db" : "blogdb"

},

"DOB" : "01-01-1987",

"Following" : [

"53402597d852426020000022",

"53402597d852426020000023"

],

"Followed\_by" : [

"53402597d852426020000061",

"53402597d852426020000062",

"53402597d852426020000063",

"53402597d852426020000064",

"53402597d852426020000022",

"53402597d852426020000023"

],

"created\_timestamp" : "2015/09/01 12:33:33",

"Modify\_timestamp" : "2016/11/01 12:33:33",

"Modifier\_user\_id" : "53402597d852426020000011"

}

{

"\_id" : ObjectId("53402597d852426020000023"),

"User\_name" : "Sridhar",

"User\_email" : "sridhar@gmail.com",

"Password" : "password",

"Admin\_flag" : "No",

"DOB" : "01-10-1988",

"Following" : [

"53402597d852426020000024"

],

"Followed\_by" : [

"53402597d852426020000065",

"53402597d852426020000066",

"53402597d852426020000067",

"53402597d852426020000068",

"53402597d852426020000021",

"53402597d852426020000022"

],

"created\_timestamp" : "2015/07/01 12:33:33",

"Modify\_timestamp" : "2016/11/01 12:33:33",

"Modifier\_user\_id" : "53402597d852426020000011"

}

**For displaying all the records of Blog\_comment**

db.Blog\_comment.find().pretty()

{

"\_id" : ObjectId("53402597d852426020000031"),

"Post\_id" : DBRef("Blog\_post", ObjectId("53402597d852426020000041"), "blogdb"),

"Commentor\_id" : DBRef("Blog\_user", ObjectId("53402597d852426020000022"), "blogdb"),

"Comment\_text " : "This post is informative",

"Comment\_image" : {

"$ref" : "fs.files",

"\_id" : ObjectId("583d1b5153edbe054fda5852"),

"$db" : "blogdb"

},

"Created\_timestamp" : "2015/09/01 12:33:33",

"Modified\_timestamp" : "2016/11/01 12:33:33",

"Modified\_user\_id" : "53402597d852426020000021"

}

{

"\_id" : ObjectId("53402597d852426020000032"),

"Comment\_id" : DBRef("Blog\_comment", ObjectId("53402597d852426020000031"), "blogdb"),

"Commentor\_id" : DBRef("Blog\_user", ObjectId("53402597d852426020000064"), "blogdb"),

"Comment\_text" : "This post is informative only to specific knowledgeable people",

"Created\_timestamp" : "2015/09/02 12:33:33",

"Modified\_timestamp" : "2016/11/05 11:33:33",

"Modified\_user\_id" : "53402597d852426020000064"

}

{

"\_id" : ObjectId("53402597d852426020000033"),

"post\_id" : DBRef("Blog\_post", ObjectId("53402597d852426020000042"), "blogdb"),

"Commentor\_id" : DBRef("Blog\_user", ObjectId("53402597d852426020000023"), "blogdb"),

"Comment\_text" : "This post is marvelous",

"Created\_timestamp" : "2015/12/01 12:33:33",

"Modified\_timestamp" : "2016/11/01 12:33:33",

"Modified\_user\_id" : "53402597d852426020000011"

}

{

"\_id" : ObjectId("53402597d852426020000034"),

"Comment\_id" : DBRef("Blog\_comment", ObjectId("53402597d852426020000033"), "blogdb"),

"Commentor\_id" : DBRef("Blog\_user", ObjectId("53402597d852426020000061"), "blogdb"),

"Comment\_text" : "This post is informative and knowledgeable to people",

"Created\_timestamp" : "2015/12/01 2:33:33",

"Modified\_timestamp" : "2016/11/05 11:33:33",

"Modified\_user\_id" : "53402597d85242602000021"

}

{

"\_id" : ObjectId("53402597d852426020000035"),

"post\_id" : DBRef("Blog\_post", ObjectId("53402597d852426020000043"), "blogdb"),

"Commentor\_id" : DBRef("Blog\_user", ObjectId("53402597d852426020000023"), "blogdb"),

"Comment\_text" : "This post is not informative",

"Created\_timestamp" : "2016/01/01 12:33:33",

"Modified\_timestamp" : "2016/11/01 12:33:33",

"Modified\_user\_id" : "53402597d852426020000011"

}

{

"\_id" : ObjectId("53402597d852426020000036"),

"post\_id" : DBRef("Blog\_post", ObjectId("53402597d852426020000044"), "blogdb"),

"Commentor\_id" : DBRef("Blog\_user", ObjectId("53402597d852426020000062"), "blogdb"),

"Comment\_text" : "This post is more informative",

"Created\_timestamp" : "2016/01/01 12:33:33",

"Modified\_timestamp" : "2016/11/01 12:33:33",

"Modified\_user\_id" : "53402597d852426020000062"

}

{

"\_id" : ObjectId("53402597d852426020000037"),

"post\_id" : DBRef("Blog\_post", ObjectId("53402597d852426020000045"), "blogdb"),

"Commentor\_id" : DBRef("Blog\_user", ObjectId("53402597d852426020000063"), "blogdb"),

"Comment\_text" : "This post is ok",

"Created\_timestamp" : "2016/01/01 12:33:33",

"Modified\_timestamp" : "2016/11/01 12:33:33",

"Modified\_user\_id" : "53402597d852426020000062"

}

{

"\_id" : ObjectId("53402597d852426020000038"),

"post\_id" : DBRef("Blog\_post", ObjectId("53402597d852426020000046"), "blogdb"),

"Commentor\_id" : DBRef("Blog\_user", ObjectId("53402597d852426020000063"), "blogdb"),

"Comment\_text" : "This post is also ok",

"Created\_timestamp" : "2016/01/01 12:33:33",

"Modified\_timestamp" : "2016/11/01 12:33:33",

"Modified\_user\_id" : "53402597d852426020000062"

}

{

"\_id" : ObjectId("53402597d852426020000039"),

"post\_id" : DBRef("Blog\_post", ObjectId("53402597d852426020000047"), "blogdb"),

"Commentor\_id" : DBRef("Blog\_user", ObjectId("53402597d852426020000064"), "blogdb"),

"Comment\_text" : "This post is confusing",

"Created\_timestamp" : "2016/01/01 12:33:33",

"Modified\_timestamp" : "2016/11/01 12:33:33",

"Modified\_user\_id" : "53402597d852426020000064"

}

{

"\_id" : ObjectId("53402597d852426020000040"),

"post\_id" : DBRef("Blog\_post", ObjectId("53402597d852426020000048"), "blogdb"),

"Commentor\_id" : DBRef("Blog\_user", ObjectId("53402597d852426020000064"), "blogdb"),

"Comment\_text" : "This post is alsoconfusing",

"Created\_timestamp" : "2016/01/01 12:33:33",

"Modified\_timestamp" : "2016/11/01 12:33:33",

"Modified\_user\_id" : "53402597d852426020000064"

}

**For displaying any particular record from Blog\_comment**

db.Blog\_comment.find({"\_id" : ObjectId("53402597d852426020000038")}).pretty()

{

"\_id" : ObjectId("53402597d852426020000038"),

"post\_id" : DBRef("Blog\_post", ObjectId("53402597d852426020000046"), "blogdb"),

"Commentor\_id" : DBRef("Blog\_user", ObjectId("53402597d852426020000063"), "blogdb"),

"Comment\_text" : "This post is also ok",

"Created\_timestamp" : "2016/01/01 12:33:33",

"Modified\_timestamp" : "2016/11/01 12:33:33",

"Modified\_user\_id" : "53402597d852426020000062"

}

**For displaying the first fetched record from Blog\_comment**

db.Blog\_comment.findOne({"\_id" : ObjectId("53402597d852426020000039")})

{

"\_id" : ObjectId("53402597d852426020000039"),

"post\_id" : DBRef("Blog\_post", ObjectId("53402597d852426020000047"), "blogdb"),

"Commentor\_id" : DBRef("Blog\_user", ObjectId("53402597d852426020000064"), "blogdb"),

"Comment\_text" : "This post is confusing",

"Created\_timestamp" : "2016/01/01 12:33:33",

"Modified\_timestamp" : "2016/11/01 12:33:33",

"Modified\_user\_id" : "53402597d852426020000064"

}

**For displaying the commentor id for a particular comment**

db.Blog\_comment.find({"Commentor\_id" : DBRef("Blog\_user", ObjectId("53402597d852426020000064"), "blogdb")}).pretty()

{

"\_id" : ObjectId("53402597d852426020000032"),

"Comment\_id" : DBRef("Blog\_comment", ObjectId("53402597d852426020000031"), "blogdb"),

"Commentor\_id" : DBRef("Blog\_user", ObjectId("53402597d852426020000064"), "blogdb"),

"Comment\_text" : "This post is informative only to specific knowledgeable people",

"Created\_timestamp" : "2015/09/02 12:33:33",

"Modified\_timestamp" : "2016/11/05 11:33:33",

"Modified\_user\_id" : "53402597d852426020000064"

}

{

"\_id" : ObjectId("53402597d852426020000039"),

"post\_id" : DBRef("Blog\_post", ObjectId("53402597d852426020000047"), "blogdb"),

"Commentor\_id" : DBRef("Blog\_user", ObjectId("53402597d852426020000064"), "blogdb"),

"Comment\_text" : "This post is confusing",

"Created\_timestamp" : "2016/01/01 12:33:33",

"Modified\_timestamp" : "2016/11/01 12:33:33",

"Modified\_user\_id" : "53402597d852426020000064"

}

{

"\_id" : ObjectId("53402597d852426020000040"),

"post\_id" : DBRef("Blog\_post", ObjectId("53402597d852426020000048"), "blogdb"),

"Commentor\_id" : DBRef("Blog\_user", ObjectId("53402597d852426020000064"), "blogdb"),

"Comment\_text" : "This post is alsoconfusing",

"Created\_timestamp" : "2016/01/01 12:33:33",

"Modified\_timestamp" : "2016/11/01 12:33:33",

"Modified\_user\_id" : "53402597d852426020000064"

}

**For displaying the count of particular commentor id from Blog\_comment**

db.Blog\_comment.aggregate([ { $match: {"Commentor\_id" : DBRef("Blog\_user", ObjectId("53402597d852426020000064"), "blogdb") }},

{ $group: { \_id: " Commentor\_id", total: { $sum: 1}}},

{ $sort: { total: -1 } }])

{ "\_id" : " Commentor\_id", "total" : 3 }

**For displaying the comments made to a post**

var user = db.Blog\_comment.findOne({"\_id" : ObjectId("53402597d852426020000031")})

var dbRef = user.Post\_id

db[dbRef.$ref].findOne({"\_id":(dbRef.$id)})

{

"\_id" : ObjectId("53402597d852426020000041"),

"Author\_id" : DBRef("Blog\_user", ObjectId("53402597d852426020000021"), "blogdb"),

"Title" : "Usage of Mongo DB",

"Content" : "As the bay of ocean is vast, do so the data. In the era of data fledging throughout. Better to come out of the traditional data usage and adopt to NOSQL usage",

"Status" : "Active",

"Modify\_user" : "53402597d852426020000021",

"Created\_timestamp" : "2015/09/01 12:33:33",

"Modified\_timestamp" : "2016/11/01 12:33:33"

}

**For displaying the comments replied to a comment**

var user = db.Blog\_comment.findOne({"\_id" : ObjectId("53402597d852426020000032")})

var dbRef = user.Comment\_id   
db[dbRef.$ref].findOne({"\_id":(dbRef.$id)})

{

"\_id" : ObjectId("53402597d852426020000031"),

"Post\_id" : DBRef("Blog\_post", ObjectId("53402597d852426020000041"), "blogdb"),

"Commentor\_id" : DBRef("Blog\_user", ObjectId("53402597d852426020000022"), "blogdb"),

"Comment\_text " : "This post is informative",

"Comment\_image" : {

"$ref" : "fs.files",

"\_id" : ObjectId("583d1b5153edbe054fda5852"),

"$db" : "blogdb"

},

"Created\_timestamp" : "2015/09/01 12:33:33",

"Modified\_timestamp" : "2016/11/01 12:33:33",

"Modified\_user\_id" : "53402597d852426020000021"

}

**For displaying all the records of Blog\_post**

db.Blog\_post.find().pretty()

{

"\_id" : ObjectId("53402597d852426020000041"),

"Author\_id" : DBRef("Blog\_user", ObjectId("53402597d852426020000021"), "blogdb"),

"Title" : "Usage of Mongo DB",

"Content" : "As the bay of ocean is vast, do so the data. In the era of data fledging throughout. Better to come out of the traditional data usage and adopt to NOSQL usage",

"Status" : "Active",

"Modify\_user" : "53402597d852426020000021",

"Created\_timestamp" : "2015/09/01 12:33:33",

"Modified\_timestamp" : "2016/11/01 12:33:33"

}

{

"\_id" : ObjectId("53402597d852426020000042"),

"Author\_id" : DBRef("Blog\_user", ObjectId("53402597d852426020000021"), "blogdb"),

"Title" : "The Top 4 Greatest Martin Scorsese Films",

"Content" : "Martin Scorsese is one of the most well-regarded filmmakers in the world, with a list of awards longer than most peoples’ arms, boasting Academy Awards, BAFTAs, the Palme d’Or, Grammys, Emmys, Golden Globes and more.",

"Status" : "Active",

"Modify\_user" : "53402597d852426020000011",

"Created\_timestamp" : "2015/09/01 1:33:33",

"Modified\_timestamp" : "2016/12/01 12:33:33"

}

{

"\_id" : ObjectId("53402597d852426020000043"),

"Author\_id" : DBRef("Blog\_user", ObjectId("53402597d852426020000022"), "blogdb"),

"Title" : "MIS Statistics",

"Content" : "The key area to concentrate for data scientist",

"Status" : "Active",

"Modify\_user" : "53402597d852426020000011",

"Created\_timestamp" : "2015/12/01 1:33:33",

"Modified\_timestamp" : "2016/12/01 12:33:33"

}

{

"\_id" : ObjectId("53402597d852426020000044"),

"Author\_id" : DBRef("Blog\_user", ObjectId("53402597d852426020000022"), "blogdb"),

"Title" : "MIS Data Ware House",

"Content" : "The kay area of study for Data Analyst",

"Status" : "Active",

"Modify\_user" : "53402597d852426020000022",

"Created\_timestamp" : "2015/12/01 1:33:33",

"Modified\_timestamp" : "2016/12/01 12:33:33"

}

{

"\_id" : ObjectId("53402597d852426020000045"),

"Author\_id" : DBRef("Blog\_user", ObjectId("53402597d852426020000023"), "blogdb"),

"Title" : "Chemistry future",

"Content" : "The Hydrogen collides with hydrogen forms helium, sun is at its half age now",

"Status" : "Active",

"Modify\_user" : "53402597d852426020000011",

"Created\_timestamp" : "2015/12/01 1:33:33",

"Modified\_timestamp" : "2016/12/01 12:33:33"

}

{

"\_id" : ObjectId("53402597d852426020000046"),

"Author\_id" : DBRef("Blog\_user", ObjectId("53402597d852426020000023"), "blogdb"),

"Title" : "Essay Writing",

"Content" : "The benifts of road safety for school children",

"Status" : "Active",

"Modify\_user" : "53402597d852426020000023",

"Created\_timestamp" : "2015/12/01 1:33:33",

"Modified\_timestamp" : "2016/12/01 12:33:33"

}

{

"\_id" : ObjectId("53402597d852426020000047"),

"Author\_id" : DBRef("Blog\_user", ObjectId("53402597d852426020000024"), "blogdb"),

"Title" : "Fun at Work",

"Content" : "The work life balancer",

"Status" : "Active",

"Modify\_user" : "53402597d852426020000024",

"Created\_timestamp" : "2015/12/01 1:33:33",

"Modified\_timestamp" : "2016/12/01 12:33:33"

}

{

"\_id" : ObjectId("53402597d852426020000048"),

"Author\_id" : DBRef("Blog\_user", ObjectId("53402597d852426020000024"), "blogdb"),

"Title" : "Workoholics",

"Content" : "The inventor do spend lot time in working, and are criticized as workaholic’s",

"Status" : "Active",

"Modify\_user" : "53402597d852426020000011",

"Created\_timestamp" : "2015/12/01 1:33:33",

"Modified\_timestamp" : "2016/12/01 12:33:33"

}

{

"\_id" : ObjectId("53402597d852426020000049"),

"Author\_id" : DBRef("Blog\_user", ObjectId("53402597d852426020000025"), "blogdb"),

"Title" : "Mercy Killing",

"Content" : "It’s like deciding which is best imprisonment till death or sentence to death by hanging",

"Status" : "Active",

"Modify\_user" : "53402597d852426020000025",

"Created\_timestamp" : "2015/12/01 1:33:33",

"Modified\_timestamp" : "2016/12/01 12:33:33"

}

{

"\_id" : ObjectId("53402597d852426020000050"),

"Author\_id" : DBRef("Blog\_user", ObjectId("53402597d852426020000025"), "blogdb"),

"Title" : "Onelife",

"Content" : "A life to be remembered",

"Status" : "Active",

"Modify\_user" : "53402597d852426020000011",

"Created\_timestamp" : "2015/12/01 1:33:33",

"Modified\_timestamp" : "2016/12/01 12:33:33"

}

**For displaying any particular record from Blog\_post**

db.Blog\_post.find({"\_id" : ObjectId("53402597d852426020000050")}).pretty()

{

"\_id" : ObjectId("53402597d852426020000050"),

"Author\_id" : DBRef("Blog\_user", ObjectId("53402597d852426020000025"), "blogdb"),

"Title" : "Onelife",

"Content" : "A life to be remembered",

"Status" : "Active",

"Modify\_user" : "53402597d852426020000011",

"Created\_timestamp" : "2015/12/01 1:33:33",

"Modified\_timestamp" : "2016/12/01 12:33:33"

}

**For displaying author corresponding to multiple posts**

db.Blog\_post.find({"Author\_id" : DBRef("Blog\_user", ObjectId("53402597d852426020000024"), "blogdb")}).pretty()

{

"\_id" : ObjectId("53402597d852426020000047"),

"Author\_id" : DBRef("Blog\_user", ObjectId("53402597d852426020000024"), "blogdb"),

"Title" : "Fun at Work",

"Content" : "The work life balancer",

"Status" : "Active",

"Modify\_user" : "53402597d852426020000024",

"Created\_timestamp" : "2015/12/01 1:33:33",

"Modified\_timestamp" : "2016/12/01 12:33:33"

}

{

"\_id" : ObjectId("53402597d852426020000048"),

"Author\_id" : DBRef("Blog\_user", ObjectId("53402597d852426020000024"), "blogdb"),

"Title" : "Workoholics",

"Content" : "The inventor do spend lot time in working, and are criticized as workaholic’s",

"Status" : "Active",

"Modify\_user" : "53402597d852426020000011",

"Created\_timestamp" : "2015/12/01 1:33:33",

"Modified\_timestamp" : "2016/12/01 12:33:33"

}

**For displaying the author information for a given post**

var user = db.Blog\_post.findOne({"\_id" : ObjectId("53402597d852426020000041")})

var dbRef = user. Author\_id

db[dbRef.$ref].findOne({"\_id":(dbRef.$id)})  
  
{

"\_id" : ObjectId("53402597d852426020000021"),

"User\_name" : "Yashaswini",

"User\_email" : "yashuhl@gmail.com",

"Password" : "vinay",

"Admin\_flag" : "No",

"User\_image" : {

"$ref" : "fs.files",

"\_id" : ObjectId("583d1b5153edbe054fda5852"),

"$db" : "blogdb"

},

"DOB" : "01-01-1987",

"Following" : [

"53402597d852426020000022",

"53402597d852426020000023"

],

"Followed\_by" : [

"53402597d852426020000061",

"53402597d852426020000062",

"53402597d852426020000063",

"53402597d852426020000064",

"53402597d852426020000022",

"53402597d852426020000023"

],

"created\_timestamp" : "2015/09/01 12:33:33",

"Modify\_timestamp" : "2016/11/01 12:33:33",

"Modifier\_user\_id" : "53402597d852426020000011"

}

**For displaying all the records of Blog\_like**

db.Blog\_like.find().pretty()

{

"\_id" : ObjectId("53402597d852426020000051"),

"Comment\_ID" : DBRef("Blog\_comment", ObjectId("53402597d852426020000031"), "blogdb"),

"Like\_user" : DBRef("Blog\_user", ObjectId("53402597d852426020000022"), "blogdb")

}

{

"\_id" : ObjectId("53402597d852426020000052"),

"Article\_id" : DBRef("Blog\_post", ObjectId("53402597d852426020000041"), "blogdb"),

"Like\_user" : DBRef("Blog\_user", ObjectId("53402597d852426020000021"), "blogdb")

}

{

"\_id" : ObjectId("53402597d852426020000053"),

"Comment\_ID" : DBRef("Blog\_comment", ObjectId("53402597d852426020000032"), "blogdb"),

"Like\_user" : DBRef("Blog\_user", ObjectId("53402597d852426020000022"), "blogdb")

}

{

"\_id" : ObjectId("53402597d852426020000054"),

"Article\_id" : DBRef("Blog\_post", ObjectId("53402597d852426020000042"), "blogdb"),

"Like\_user" : DBRef("Blog\_user", ObjectId("53402597d852426020000023"), "blogdb")

}

{

"\_id" : ObjectId("53402597d852426020000055"),

"Comment\_ID" : DBRef("Blog\_comment", ObjectId("53402597d852426020000033"), "blogdb"),

"Like\_user" : DBRef("Blog\_user", ObjectId("53402597d852426020000024"), "blogdb")

}

{

"\_id" : ObjectId("53402597d852426020000056"),

"Comment\_ID" : DBRef("Blog\_comment", ObjectId("53402597d852426020000034"), "blogdb"),

"Like\_user" : DBRef("Blog\_user", ObjectId("53402597d852426020000061"), "blogdb")

}

{

"\_id" : ObjectId("53402597d852426020000057"),

"Article\_id" : DBRef("Blog\_post", ObjectId("53402597d852426020000044"), "blogdb"),

"Like\_user" : DBRef("Blog\_user", ObjectId("53402597d852426020000062"), "blogdb")

}

{

"\_id" : ObjectId("53402597d852426020000058"),

"Comment\_ID" : DBRef("Blog\_comment", ObjectId("53402597d852426020000035"), "blogdb"),

"Like\_user" : DBRef("Blog\_user", ObjectId("53402597d852426020000062"), "blogdb")

}

{

"\_id" : ObjectId("53402597d852426020000059"),

"Article\_id" : DBRef("Blog\_post", ObjectId("53402597d852426020000045"), "blogdb"),

"Like\_user" : DBRef("Blog\_user", ObjectId("53402597d852426020000063"), "blogdb")

}

{

"\_id" : ObjectId("53402597d852426020000060"),

"Article\_id" : DBRef("Blog\_post", ObjectId("53402597d852426020000045"), "blogdb"),

"Like\_user" : DBRef("Blog\_user", ObjectId("53402597d852426020000064"), "blogdb")

}

**For displaying the comment information for the given like**

var user = db.Blog\_like.findOne({"\_id" : ObjectId("53402597d852426020000051")})

var dbRef = user.Comment\_ID

db[dbRef.$ref].findOne({"\_id":(dbRef.$id)})

{

"\_id" : ObjectId("53402597d852426020000031"),

"Post\_id" : DBRef("Blog\_post", ObjectId("53402597d852426020000041"), "blogdb"),

"Commentor\_id" : DBRef("Blog\_user", ObjectId("53402597d852426020000022"), "blogdb"),

"Comment\_text " : "This post is informative",

"Comment\_image" : {

"$ref" : "fs.files",

"\_id" : ObjectId("583d1b5153edbe054fda5852"),

"$db" : "blogdb"

},

"Created\_timestamp" : "2015/09/01 12:33:33",

"Modified\_timestamp" : "2016/11/01 12:33:33",

"Modified\_user\_id" : "53402597d852426020000021"

}

**For displaying the user information for the given like**

var user = db.Blog\_like.findOne({"\_id" : ObjectId("53402597d852426020000051")})

var dbRef = user.Like\_user

db[dbRef.$ref].findOne({"\_id":(dbRef.$id)})

{

"\_id" : ObjectId("53402597d852426020000021"),

"User\_name" : "Yashaswini",

"User\_email" : "yashuhl@gmail.com",

"Password" : "vinay",

"Admin\_flag" : "No",

"User\_image" : {

"$ref" : "fs.files",

"\_id" : ObjectId("583d1b5153edbe054fda5852"),

"$db" : "blogdb"

},

"DOB" : "01-01-1987",

"Following" : [

"53402597d852426020000022",

"53402597d852426020000023"

],

"Followed\_by" : [

"53402597d852426020000061",

"53402597d852426020000062",

"53402597d852426020000063",

"53402597d852426020000064",

"53402597d852426020000022",

"53402597d852426020000023"

],

"created\_timestamp" : "2015/09/01 12:33:33",

"Modify\_timestamp" : "2016/11/01 12:33:33",

"Modifier\_user\_id" : "53402597d852426020000011"

}

**For displaying the article information for the given like**

var user = db.Blog\_like.findOne({"\_id" : ObjectId("53402597d852426020000052")})

var dbRef = user.Article\_id

db[dbRef.$ref].findOne({"\_id":(dbRef.$id)})

{

"\_id" : ObjectId("53402597d852426020000041"),

"Author\_id" : DBRef("Blog\_user", ObjectId("53402597d852426020000021"), "blogdb"),

"Title" : "Usage of Mongo DB",

"Content" : "As the bay of ocean is vast, do so the data. In the era of data fledging throughout. Better to come out of the traditional data usage and adopt to NOSQL usage",

"Status" : "Active",

"Modify\_user" : "53402597d852426020000021",

"Created\_timestamp" : "2015/09/01 12:33:33",

"Modified\_timestamp" : "2016/11/01 12:33:33"

}

**Denormalization**

**For displaying all the records of Blog\_user\_normal**

db.Blog\_user\_normal.find().pretty()

{

"\_id" : ObjectId("53402597d852426020000061"),

"User\_name" : "Yashaswini",

"User\_email" : "yashuhl@gmail.com",

"Password" : "vinay",

"Admin\_flag" : "No",

"User\_image" : {

"$ref" : "fs.files",

"\_id" : ObjectId("583d1b5153edbe054fda5852"),

"$db" : "blogdb"

},

"DOB" : "01-01-1987",

"Following" : [

"53402597d852426020000062",

"53402597d852426020000063",

"53402597d852426020000064"

],

"Followed\_by" : [

"53402597d852426020000062",

"53402597d852426020000063",

"53402597d852426020000064",

"53402597d852426020000065",

"53402597d852426020000066",

"53402597d852426020000067"

],

"created\_timestamp" : "2015/09/01 12:33:33",

"Modify\_timestamp" : "2016/11/01 12:33:33",

"Modifier\_user\_id" : "53402597d852426020000061",

"Blog\_post" : {

"Title" : "Blog Expert",

"Content" : "When people ask me for advice about blogging, the main question I get asked is: Do I need to pick a topic. ",

"Status" : "Active",

"Modify\_user" : "53402597d852426020000011",

"Created\_timestamp" : "2015/10/01 12:33:33",

"Modified\_timestamp" : "2016/11/01 12:33:33",

"Blog\_comment" : {

"Commentor\_id" : "53402597d852426020000062",

"Comment\_text" : "This post is very general",

"Comment\_image" : {

"$ref" : "fs.files",

"\_id" : ObjectId("583d1b5153edbe054fda5852"),

"$db" : "blogdb"

},

"Created\_timestamp" : "2015/11/01 12:33:33",

"Modified\_timestamp" : "2016/11/01 12:33:33",

"Modified\_user\_id" : "53402597d852426020000062",

"Blog\_comment\_like" : "53402597d852426020000062"

},

"Blog\_post\_like" : "53402597d852426020000062"

}

}

{

"\_id" : ObjectId("53402597d852426020000062"),

"User\_name" : "Sriram",

"User\_email" : "sriram@gmail.com",

"Password" : "default",

"Admin\_flag" : "No",

"DOB" : "01-02-1988",

"Following" : [

"53402597d852426020000021",

"53402597d852426020000022",

"53402597d852426020000061"

],

"Followed\_by" : [

"53402597d852426020000063"

],

"created\_timestamp" : "2015/10/01 12:33:33",

"Modify\_timestamp" : "2016/11/01 12:33:33",

"Modifier\_user\_id" : "53402597d852426020000062",

"Blog\_post" : {

"Title" : "Blogging",

"Content" : "When people ask me for advice about blogging? ",

"Status" : "Active",

"Modify\_user" : "53402597d852426020000011",

"Created\_timestamp" : "2015/10/01 12:33:33",

"Modified\_timestamp" : "2016/11/01 12:33:33",

"Blog\_comment" : {

"Commentor\_id" : "53402597d852426020000062",

"Comment\_text" : "This post is very general",

"Comment\_image" : {

"$ref" : "fs.files",

"\_id" : ObjectId("583d1b5153edbe054fda5852"),

"$db" : "blogdb"

},

"Created\_timestamp" : "2015/11/01 12:33:33",

"Modified\_timestamp" : "2016/11/01 12:33:33",

"Modified\_user\_id" : "53402597d852426020000062",

"Blog\_Comment\_like" : "53402597d852426020000062"

}

}

}

{

"\_id" : ObjectId("53402597d852426020000063"),

"User\_name" : "Sridhar",

"User\_email" : "sridhar@gmail.com",

"Password" : "password",

"Admin\_flag" : "No",

"DOB" : "01-02-1990",

"Following" : [

"53402597d852426020000021",

"53402597d852426020000022",

"53402597d852426020000061",

"53402597d852426020000062"

],

"Followed\_by" : [

"53402597d852426020000065"

],

"created\_timestamp" : "2015/10/01 12:33:33",

"Modify\_timestamp" : "2016/11/01 12:33:33",

"Modifier\_user\_id" : "53402597d852426020000011",

"Blog\_post" : {

"Title" : "Blogging",

"Content" : "When people ask me for advice about blogging? ",

"Status" : "Active",

"Modify\_user" : "53402597d852426020000011",

"Created\_timestamp" : "2015/10/01 12:33:33",

"Modified\_timestamp" : "2016/11/01 12:33:33",

"Blog\_comment" : {

"Commentor\_id" : "53402597d852426020000062",

"Comment\_text" : "This post is very general",

"Created\_timestamp" : "2015/11/01 12:33:33",

"Modified\_timestamp" : "2016/11/01 12:33:33",

"Modified\_user\_id" : "53402597d852426020000011"

}

}

}

{

"\_id" : ObjectId("53402597d852426020000064"),

"User\_name" : "Mihir",

"User\_email" : "mihir@gmail.com",

"Password" : "mihir",

"Admin\_flag" : "No",

"DOB" : "01-02-1992",

"Following" : [

"53402597d852426020000021",

"53402597d852426020000022",

"53402597d852426020000061"

],

"Followed\_by" : [

"53402597d852426020000066"

],

"created\_timestamp" : "2015/01/01 12:33:33",

"Modify\_timestamp" : "2016/11/01 12:33:33",

"Modifier\_user\_id" : "53402597d852426020000011",

"Blog\_post" : {

"Title" : "Demonitization",

"Content" : "When crime rate increases we realize the effort for curbing",

"Status" : "Active",

"Modify\_user" : "53402597d852426020000011",

"Created\_timestamp" : "2015/10/01 12:33:33",

"Modified\_timestamp" : "2016/11/01 12:33:33",

"Blog\_comment" : {

"Commentor\_id" : "53402597d852426020000064",

"Comment\_text" : "This post is very general",

"Created\_timestamp" : "2015/11/01 12:33:33",

"Modified\_timestamp" : "2016/11/01 12:33:33",

"Modified\_user\_id" : "53402597d852426020000064"

}

}

}

{

"\_id" : ObjectId("53402597d852426020000065"),

"User\_name" : "Divya",

"User\_email" : "divya@gmail.com",

"Password" : "vinay",

"Admin\_flag" : "No",

"DOB" : "09-01-1992",

"Following" : [

"53402597d852426020000023",

"53402597d852426020000024",

"53402597d852426020000061",

"53402597d852426020000063"

],

"Followed\_by" : [

"53402597d852426020000067"

],

"created\_timestamp" : "2015/01/01 12:33:33",

"Modify\_timestamp" : "2016/11/01 12:33:33",

"Modifier\_user\_id" : "53402597d852426020000063",

"Blog\_post" : {

"Title" : "Demonitization",

"Content" : "When crime rate increases we realize the effort for curbing",

"Status" : "Active",

"Modify\_user" : "53402597d852426020000065",

"Created\_timestamp" : "2015/10/01 12:33:33",

"Modified\_timestamp" : "2016/11/01 12:33:33"

}

}

{

"\_id" : ObjectId("53402597d852426020000066"),

"User\_name" : "Pawan",

"User\_email" : "pawan@gmail.com",

"Password" : "pawan",

"Admin\_flag" : "No",

"DOB" : "09-01-1992",

"Following" : [

"53402597d852426020000023",

"53402597d852426020000024",

"53402597d852426020000061",

"53402597d852426020000064"

],

"Followed\_by" : [

"53402597d852426020000068"

],

"created\_timestamp" : "2015/01/01 12:33:33",

"Modify\_timestamp" : "2016/11/01 12:33:33",

"Modifier\_user\_id" : "53402597d852426020000066"

}

{

"\_id" : ObjectId("53402597d852426020000067"),

"User\_name" : "Mohammed",

"User\_email" : "mohammed@gmail.com",

"Password" : "mohammed",

"Admin\_flag" : "No",

"DOB" : "09-01-1992",

"Following" : [

"53402597d852426020000023",

"53402597d852426020000024",

"53402597d852426020000061",

"53402597d852426020000065"

],

"Followed\_by" : [

"53402597d852426020000068"

],

"created\_timestamp" : "2015/01/01 12:33:33",

"Modify\_timestamp" : "2016/11/01 12:33:33",

"Modifier\_user\_id" : "53402597d852426020000011"

}

{

"\_id" : ObjectId("53402597d852426020000068"),

"User\_name" : "Rajiv",

"User\_email" : "rajiv@gmail.com",

"Password" : "rajiv",

"Admin\_flag" : "No",

"DOB" : "09-01-1985",

"Following" : [

"53402597d852426020000023",

"53402597d852426020000024",

"53402597d852426020000025",

"53402597d852426020000066",

"53402597d852426020000067"

],

"Followed\_by" : [

"53402597d852426020000068"

],

"created\_timestamp" : "2015/01/01 12:33:33",

"Modify\_timestamp" : "2016/11/01 12:33:33",

"Modifier\_user\_id" : "53402597d852426020000011"

}

{

"\_id" : ObjectId("53402597d852426020000069"),

"User\_name" : "Sharman",

"User\_email" : "sharman@gmail.com",

"Password" : "sharman",

"Admin\_flag" : "No",

"DOB" : "09-01-1985",

"Following" : [

"53402597d852426020000025",

"53402597d852426020000068",

"53402597d852426020000070"

],

"Followed\_by" : [

"53402597d852426020000070"

],

"created\_timestamp" : "2015/01/01 12:33:33",

"Modify\_timestamp" : "2016/11/01 12:33:33",

"Modifier\_user\_id" : "53402597d852426020000011"

}

{

"\_id" : ObjectId("53402597d852426020000070"),

"User\_name" : "Bible",

"User\_email" : "bible@gmail.com",

"Password" : "bible",

"Admin\_flag" : "No",

"DOB" : "09-01-1985",

"Following" : [

"53402597d852426020000025",

"53402597d852426020000069"

],

"Followed\_by" : [

"53402597d852426020000069"

],

"created\_timestamp" : "2015/01/01 12:33:33",

"Modify\_timestamp" : "2016/11/01 12:33:33",

"Modifier\_user\_id" : "53402597d852426020000011"

}

**For displaying any particular record from Blog\_user\_normal**

db.Blog\_user\_normal.find({"User\_name" : "Sharman"}).pretty()

{

"\_id" : ObjectId("53402597d852426020000069"),

"User\_name" : "Sharman",

"User\_email" : "sharman@gmail.com",

"Password" : "sharman",

"Admin\_flag" : "No",

"DOB" : "09-01-1985",

"Following" : [

"53402597d852426020000025",

"53402597d852426020000068",

"53402597d852426020000070"

],

"Followed\_by" : [

"53402597d852426020000070"

],

"created\_timestamp" : "2015/01/01 12:33:33",

"Modify\_timestamp" : "2016/11/01 12:33:33",

"Modifier\_user\_id" : "53402597d852426020000011"

}

**For displaying the users modified by the admin**

db.Blog\_user\_normal.find({"Modifier\_user\_id" : "53402597d852426020000011"}).pretty()

{

"\_id" : ObjectId("53402597d852426020000063"),

"User\_name" : "Sridhar",

"User\_email" : "sridhar@gmail.com",

"Password" : "password",

"Admin\_flag" : "No",

"DOB" : "01-02-1990",

"Following" : [

"53402597d852426020000021",

"53402597d852426020000022",

"53402597d852426020000061",

"53402597d852426020000062"

],

"Followed\_by" : [

"53402597d852426020000065"

],

"created\_timestamp" : "2015/10/01 12:33:33",

"Modify\_timestamp" : "2016/11/01 12:33:33",

"Modifier\_user\_id" : "53402597d852426020000011",

"Blog\_post" : {

"Title" : "Blogging",

"Content" : "When people ask me for advice about blogging? ",

"Status" : "Active",

"Modify\_user" : "53402597d852426020000011",

"Created\_timestamp" : "2015/10/01 12:33:33",

"Modified\_timestamp" : "2016/11/01 12:33:33",

"Blog\_comment" : {

"Commentor\_id" : "53402597d852426020000062",

"Comment\_text" : "This post is very general",

"Created\_timestamp" : "2015/11/01 12:33:33",

"Modified\_timestamp" : "2016/11/01 12:33:33",

"Modified\_user\_id" : "53402597d852426020000011"

}

}

}

{

"\_id" : ObjectId("53402597d852426020000064"),

"User\_name" : "Mihir",

"User\_email" : "mihir@gmail.com",

"Password" : "mihir",

"Admin\_flag" : "No",

"DOB" : "01-02-1992",

"Following" : [

"53402597d852426020000021",

"53402597d852426020000022",

"53402597d852426020000061"

],

"Followed\_by" : [

"53402597d852426020000066"

],

"created\_timestamp" : "2015/01/01 12:33:33",

"Modify\_timestamp" : "2016/11/01 12:33:33",

"Modifier\_user\_id" : "53402597d852426020000011",

"Blog\_post" : {

"Title" : "Demonitization",

"Content" : "When crime rate increases we realize the effort for curbing",

"Status" : "Active",

"Modify\_user" : "53402597d852426020000011",

"Created\_timestamp" : "2015/10/01 12:33:33",

"Modified\_timestamp" : "2016/11/01 12:33:33",

"Blog\_comment" : {

"Commentor\_id" : "53402597d852426020000064",

"Comment\_text" : "This post is very general",

"Created\_timestamp" : "2015/11/01 12:33:33",

"Modified\_timestamp" : "2016/11/01 12:33:33",

"Modified\_user\_id" : "53402597d852426020000064"

}

}

}

{

"\_id" : ObjectId("53402597d852426020000067"),

"User\_name" : "Mohammed",

"User\_email" : "mohammed@gmail.com",

"Password" : "mohammed",

"Admin\_flag" : "No",

"DOB" : "09-01-1992",

"Following" : [

"53402597d852426020000023",

"53402597d852426020000024",

"53402597d852426020000061",

"53402597d852426020000065"

],

"Followed\_by" : [

"53402597d852426020000068"

],

"created\_timestamp" : "2015/01/01 12:33:33",

"Modify\_timestamp" : "2016/11/01 12:33:33",

"Modifier\_user\_id" : "53402597d852426020000011"

}

{

"\_id" : ObjectId("53402597d852426020000068"),

"User\_name" : "Rajiv",

"User\_email" : "rajiv@gmail.com",

"Password" : "rajiv",

"Admin\_flag" : "No",

"DOB" : "09-01-1985",

"Following" : [

"53402597d852426020000023",

"53402597d852426020000024",

"53402597d852426020000025",

"53402597d852426020000066",

"53402597d852426020000067"

],

"Followed\_by" : [

"53402597d852426020000068"

],

"created\_timestamp" : "2015/01/01 12:33:33",

"Modify\_timestamp" : "2016/11/01 12:33:33",

"Modifier\_user\_id" : "53402597d852426020000011"

}

{

"\_id" : ObjectId("53402597d852426020000069"),

"User\_name" : "Sharman",

"User\_email" : "sharman@gmail.com",

"Password" : "sharman",

"Admin\_flag" : "No",

"DOB" : "09-01-1985",

"Following" : [

"53402597d852426020000025",

"53402597d852426020000068",

"53402597d852426020000070"

],

"Followed\_by" : [

"53402597d852426020000070"

],

"created\_timestamp" : "2015/01/01 12:33:33",

"Modify\_timestamp" : "2016/11/01 12:33:33",

"Modifier\_user\_id" : "53402597d852426020000011"

}

{

"\_id" : ObjectId("53402597d852426020000070"),

"User\_name" : "Bible",

"User\_email" : "bible@gmail.com",

"Password" : "bible",

"Admin\_flag" : "No",

"DOB" : "09-01-1985",

"Following" : [

"53402597d852426020000025",

"53402597d852426020000069"

],

"Followed\_by" : [

"53402597d852426020000069"

],

"created\_timestamp" : "2015/01/01 12:33:33",

"Modify\_timestamp" : "2016/11/01 12:33:33",

"Modifier\_user\_id" : "53402597d852426020000011"

}

**For displaying the users modified by admin and select the first user**

db.Blog\_user\_normal.findOne({"Modifier\_user\_id" : "53402597d852426020000011"})

{

"\_id" : ObjectId("53402597d852426020000063"),

"User\_name" : "Sridhar",

"User\_email" : "sridhar@gmail.com",

"Password" : "password",

"Admin\_flag" : "No",

"DOB" : "01-02-1990",

"Following" : [

"53402597d852426020000021",

"53402597d852426020000022",

"53402597d852426020000061",

"53402597d852426020000062"

],

"Followed\_by" : [

"53402597d852426020000065"

],

"created\_timestamp" : "2015/10/01 12:33:33",

"Modify\_timestamp" : "2016/11/01 12:33:33",

"Modifier\_user\_id" : "53402597d852426020000011",

"Blog\_post" : {

"Title" : "Blogging",

"Content" : "When people ask me for advice about blogging? ",

"Status" : "Active",

"Modify\_user" : "53402597d852426020000011",

"Created\_timestamp" : "2015/10/01 12:33:33",

"Modified\_timestamp" : "2016/11/01 12:33:33",

"Blog\_comment" : {

"Commentor\_id" : "53402597d852426020000062",

"Comment\_text" : "This post is very general",

"Created\_timestamp" : "2015/11/01 12:33:33",

"Modified\_timestamp" : "2016/11/01 12:33:33",

"Modified\_user\_id" : "53402597d852426020000011"

}

}

}

**Sample update operation to change Like\_user from 0021 to 0022 on record# 0051**

db.Blog\_like.update

({"Like\_user": {"$ref": "Blog\_user","$id": ObjectId("53402597d852426020000021"),"$db": "blogdb"}},

{$set:{"Like\_user": {"$ref": "Blog\_user","$id": ObjectId("53402597d852426020000022"),"$db": "blogdb"}}})

{

"\_id" : ObjectId("53402597d852426020000051"),

"Comment\_ID" : DBRef("Blog\_comment", ObjectId("53402597d852426020000031"), "blogdb"),

"Like\_user" : DBRef("Blog\_user", ObjectId("53402597d852426020000022"), "blogdb")

}

{

"\_id" : ObjectId("53402597d852426020000052"),

"Article\_id" : DBRef("Blog\_post", ObjectId("53402597d852426020000041"), "blogdb"),

"Like\_user" : DBRef("Blog\_user", ObjectId("53402597d852426020000021"), "blogdb")

}

**Sample push operation on the existing “Followed by” array**

**Before update:**

db.Blog\_user.find({"\_id" : ObjectId("53402597d852426020000024")}).pretty()

{

"\_id" : ObjectId("53402597d852426020000024"),

"User\_name" : "Mihir",

"User\_email" : "mihir@gmail.com",

"Password" : "mihir",

"Admin\_flag" : "No",

"DOB" : "01-09-1992",

"Following" : [

"53402597d852426020000022"

],

"Followed\_by" : [

"53402597d852426020000065",

"53402597d852426020000066",

"53402597d852426020000067",

"53402597d852426020000068",

"53402597d852426020000023",

"53402597d852426020000025"

],

"created\_timestamp" : "2015/06/01 12:33:33",

"Modify\_timestamp" : "2016/11/01 12:33:33",

"Modifier\_user\_id" : "53402597d852426020000024"

}

**Update query:**

db.Blog\_user.update({\_id : ObjectId("53402597d852426020000024")},{ $push : {"Followed\_by":"53402597d852426020000026"}})

**After update:**

db.Blog\_user.find({"\_id" : ObjectId("53402597d852426020000024")}).pretty()

{

"\_id" : ObjectId("53402597d852426020000024"),

"User\_name" : "Mihir",

"User\_email" : "mihir@gmail.com",

"Password" : "mihir",

"Admin\_flag" : "No",

"DOB" : "01-09-1992",

"Following" : [

"53402597d852426020000022"

],

"Followed\_by" : [

"53402597d852426020000065",

"53402597d852426020000066",

"53402597d852426020000067",

"53402597d852426020000068",

"53402597d852426020000023",

"53402597d852426020000025",

"53402597d852426020000026"

],

"created\_timestamp" : "2015/06/01 12:33:33",

"Modify\_timestamp" : "2016/11/01 12:33:33",

"Modifier\_user\_id" : "53402597d852426020000024"

}

**Explain query for performance check: Denormalized table**

db.Blog\_user\_normal.explain(true).find({})

{

"queryPlanner" : {

"plannerVersion" : 1,

"namespace" : "blogdb.Blog\_user\_normal",

"indexFilterSet" : false,

"parsedQuery" : {

"$and" : [ ]

},

"winningPlan" : {

"stage" : "COLLSCAN",

"filter" : {

"$and" : [ ]

},

"direction" : "forward"

},

"rejectedPlans" : [ ]

},

"executionStats" : {

"executionSuccess" : true,

"nReturned" : 10,

"executionTimeMillis" : 2,

"totalKeysExamined" : 0,

"totalDocsExamined" : 10,

"executionStages" : {

"stage" : "COLLSCAN",

"filter" : {

"$and" : [ ]

},

"nReturned" : 10,

"executionTimeMillisEstimate" : 0,

"works" : 12,

"advanced" : 10,

"needTime" : 1,

"needYield" : 0,

"saveState" : 0,

"restoreState" : 0,

"isEOF" : 1,

"invalidates" : 0,

"direction" : "forward",

"docsExamined" : 10

},

"allPlansExecution" : [ ]

},

"serverInfo" : {

"host" : "Yashus-MacBook-Pro.local",

"port" : 27017,

"version" : "3.2.10",

"gitVersion" : "79d9b3ab5ce20f51c272b4411202710a082d0317"

},

"ok" : 1

}

**Explain query for performance check: Normalized table**

db.Blog\_user.explain(true).find({})

{

"queryPlanner" : {

"plannerVersion" : 1,

"namespace" : "blogdb.Blog\_user",

"indexFilterSet" : false,

"parsedQuery" : {

"$and" : [ ]

},

"winningPlan" : {

"stage" : "COLLSCAN",

"filter" : {

"$and" : [ ]

},

"direction" : "forward"

},

"rejectedPlans" : [ ]

},

"executionStats" : {

"executionSuccess" : true,

"nReturned" : 5,

"executionTimeMillis" : 0,

"totalKeysExamined" : 0,

"totalDocsExamined" : 5,

"executionStages" : {

"stage" : "COLLSCAN",

"filter" : {

"$and" : [ ]

},

"nReturned" : 5,

"executionTimeMillisEstimate" : 0,

"works" : 7,

"advanced" : 5,

"needTime" : 1,

"needYield" : 0,

"saveState" : 0,

"restoreState" : 0,

"isEOF" : 1,

"invalidates" : 0,

"direction" : "forward",

"docsExamined" : 5

},

"allPlansExecution" : [ ]

},

"serverInfo" : {

"host" : "Yashus-MacBook-Pro.local",

"port" : 27017,

"version" : "3.2.10",

"gitVersion" : "79d9b3ab5ce20f51c272b4411202710a082d0317"

},

"ok" : 1

}

**Building JSON files**

**Exporting the collections to JSON file**

./mongoexport -d blogdb -c Blog\_user -o Blog\_user\_Final.json

./mongoexport -d blogdb -c Blog\_post -o Blog\_post\_Final.json

./mongoexport -d blogdb -c Blog\_comment -o Blog\_comment\_Final.json

./mongoexport -d blogdb -c Blog\_like -o Blog\_like\_Final.json  
./mongoexport -d blogdb -c Blog\_user\_normal -o Blog\_NonCelebrity\_Final.json

**Importing the collections from JSON file**

./mongoimport --db blogdb --collection Blog\_user\_normal --type json --file Blog\_user\_Final.json

./mongoimport --db blogdb --collection Blog\_user\_normal --type json --file Blog\_post\_Final.json

./mongoimport --db blogdb --collection Blog\_user\_normal --type json --file Blog\_comment\_Final.json

./mongoimport --db blogdb --collection Blog\_user\_normal --type json --file Blog\_like\_Final.json  
./mongoimport --db blogdb --collection Blog\_user\_normal --type json --file Blog\_NonCelebrity\_Final.json