test> use employee

switched to db employee

employee> db.createCollection(employee)

ReferenceError: employee is not defined

employee> db.createCollection("employee")

{ ok: 1 }

employee> db.employee.insertMany([])

MongoInvalidArgumentError: Invalid BulkOperation, Batch cannot be empty

employee> db.employee.insertMany([{

... title:"id",

...

...

employee> db.employee.insertOne({id:1, name: "abc", street: "ravipuram", city: "rajakkad", department :"computer"})

{

acknowledged: true,

insertedId: ObjectId('6618f1fa619546ca5b9f990a')

}

employee> db.employee.insertMany([

... {

... id:2,

... name: "aji"

... street: "pala",

Uncaught:

SyntaxError: Unexpected token, expected "," (5:0)

3 | id:2,

4 | name: "aji"

> 5 | street: "pala",

| ^

6 |

employee> db.employee.insertMany([ { id:2, name: "aji", street: "pala",city: "kadaplamattom", department: "finance"},

... {

... id: 3,

... name: "ram",

... strret: "hyd",

... street: "hyd",

... city: "hudai",

... department: "maths"}

... ])

{

acknowledged: true,

insertedIds: {

'0': ObjectId('6618f39f619546ca5b9f990b'),

'1': ObjectId('6618f39f619546ca5b9f990c')

}

}

employee> db.employee.insertMany([

... {

... id: 4,

... name: "Keerthi",

... street: "ktm",

... city: "pala",

... department: "physics"

... },

... {

... id: 5,

... name: "nivu",

... street: "tvm",

... city: "veli",

... department: "chemistry"

... }

... ,

... {

... id: 6,

... name: "nidhi",

... street: "kollam",

... city: "kallara",

... department: "coomerce"

... }

employee>

employee> db.employee.find()

[

{

\_id: ObjectId('6618f1fa619546ca5b9f990a'),

id: 1,

name: 'abc',

street: 'ravipuram',

city: 'rajakkad',

department: 'computer'

},

{

\_id: ObjectId('6618f39f619546ca5b9f990b'),

id: 2,

name: 'aji',

street: 'pala',

city: 'kadaplamattom',

department: 'finance'

},

{

\_id: ObjectId('6618f39f619546ca5b9f990c'),

id: 3,

name: 'ram',

strret: 'hyd',

street: 'hyd',

city: 'hudai',

department: 'maths'

},

{

\_id: ObjectId('6618f53c619546ca5b9f990d'),

id: 4,

name: 'Keerthi',

street: 'ktm',

city: 'pala',

department: 'physics'

},

{

\_id: ObjectId('6618f53c619546ca5b9f990e'),

id: 5,

name: 'nivu',

street: 'tvm',

city: 'veli',

department: 'chemistry'

},

{

\_id: ObjectId('6618f53c619546ca5b9f990f'),

id: 6,

name: 'nidhi',

street: 'kollam',

city: 'kallara',

department: 'coomerce'

}

]

employee> db.employee.updateOne({id: "1"},{$set:{salary:80000}})

{

acknowledged: true,

insertedId: null,

matchedCount: 0,

modifiedCount: 0,

upsertedCount: 0

}

employee> db.employee.find({id:"1"})

employee> db.employee.updateOne({id: "1"},{$set:{salary:80000}})

{

acknowledged: true,

insertedId: null,

matchedCount: 0,

modifiedCount: 0,

upsertedCount: 0

}

employee> db.employee.updateOne({id: "2"},{$set:{salary:70000}})

{

acknowledged: true,

insertedId: null,

matchedCount: 0,

modifiedCount: 0,

upsertedCount: 0

}

employee> db.employee.updateOne({id: "3"},{$set:{salary:75000}})

{

acknowledged: true,

insertedId: null,

matchedCount: 0,

modifiedCount: 0,

upsertedCount: 0

}

employee> db.employee.updateOne({id: "4"},{$set:{salary:85000}})

{

acknowledged: true,

insertedId: null,

matchedCount: 0,

modifiedCount: 0,

upsertedCount: 0

employee>

employee> db.employee.updateOne({id: "5"},{$set:{salary:65000}})

{

acknowledged: true,

insertedId: null,

matchedCount: 0,

modifiedCount: 0,

upsertedCount: 0

}

employee> db.employee.updateOne({id: "6"},{$set:{salary:95000}})

{

acknowledged: true,

insertedId: null,

matchedCount: 0,

modifiedCount: 0,

upsertedCount: 0

}

employee> db.employee.find()

[

{

\_id: ObjectId('6618f1fa619546ca5b9f990a'),

id: 1,

name: 'abc',

street: 'ravipuram',

city: 'rajakkad',

department: 'computer'

},

{

\_id: ObjectId('6618f39f619546ca5b9f990b'),

id: 2,

name: 'aji',

street: 'pala',

city: 'kadaplamattom',

department: 'finance'

},

{

\_id: ObjectId('6618f39f619546ca5b9f990c'),

id: 3,

name: 'ram',

strret: 'hyd',

street: 'hyd',

city: 'hudai',

department: 'maths'

},

{

\_id: ObjectId('6618f53c619546ca5b9f990d'),

id: 4,

name: 'Keerthi',

street: 'ktm',

city: 'pala',

department: 'physics'

},

{

\_id: ObjectId('6618f53c619546ca5b9f990e'),

id: 5,

name: 'nivu',

street: 'tvm',

city: 'veli',

department: 'chemistry'

},

{

\_id: ObjectId('6618f53c619546ca5b9f990f'),

id: 6,

name: 'nidhi',

street: 'kollam',

city: 'kallara',

department: 'coomerce'

}

]

**Non-relational(NoSQL) Database-MongoDB**

**SET-11**

**1.Perform CURD operation**

**//create databse**

employee> use Keerthana

switched to db Keerthana

**//create collection**

Keerthana> db.createCollection('Student');

{ ok: 1 }

**//insertion**

Keerthana> db.Student.insert({'Rno':'1','Name':'Piyush','Class':'TE COMP'});

DeprecationWarning: Collection.insert() is deprecated. Use insertOne, insertMany, or bulkWrite.

{

acknowledged: true,

insertedIds: { '0': ObjectId('661cf3165cfd460a349f990a') }

}

Keerthana> db.Student.insert({'Rno':'2','Name':'Abhi','Class':'TE COMP'});

{

acknowledged: true,

insertedIds: { '0': ObjectId('661cf3575cfd460a349f990b') }

}

**//select**

Keerthana> db.Student.insert({'Rno':'3','Name':'Ashley','Class':'TE COMP'});

{

acknowledged: true,

insertedIds: { '0': ObjectId('661cf3945cfd460a349f990c') }

}

Keerthana> db.Student.insert({'Rno':'4','Name':'Hitesh','Class':'TE COMP'});

{

acknowledged: true,

insertedIds: { '0': ObjectId('661cf3a75cfd460a349f990d') }

}

Keerthana> db.Student.insert({'Rno':'5','Name':'Pratik','Class':'TE COMP'});

{

acknowledged: true,

insertedIds: { '0': ObjectId('661cf3ba5cfd460a349f990e') }

}

Keerthana> db.Student.insert({'Rno':'6','Name':'Pratik','Class':'TE COMP'});

{

acknowledged: true,

insertedIds: { '0': ObjectId('661cf3c75cfd460a349f990f') }

}

Keerthana> db.Student.find()

[

{

\_id: ObjectId('661cf3165cfd460a349f990a'),

Rno: '1',

Name: 'Piyush',

Class: 'TE COMP'

},

{

\_id: ObjectId('661cf3575cfd460a349f990b'),

Rno: '2',

Name: 'Abhi',

Class: 'TE COMP'

},

{

\_id: ObjectId('661cf3945cfd460a349f990c'),

Rno: '3',

Name: 'Ashley',

Class: 'TE COMP'

},

{

\_id: ObjectId('661cf3a75cfd460a349f990d'),

Rno: '4',

Name: 'Hitesh',

Class: 'TE COMP'

},

{

\_id: ObjectId('661cf3ba5cfd460a349f990e'),

Rno: '5',

Name: 'Pratik',

Class: 'TE COMP'

},

{

\_id: ObjectId('661cf3c75cfd460a349f990f'),

Rno: '6',

Name: 'Pratik',

Class: 'TE COMP'

}

]

**//update**

Keerthana> db.Student.update({'Name':'Hitesh'},{$set: {'Name':'Henry'}});

DeprecationWarning: Collection.update() is deprecated. Use updateOne, updateMany, or bulkWrite.

{

acknowledged: true,

insertedId: null,

matchedCount: 1,

modifiedCount: 1,

upsertedCount: 0

}

Keerthana> db.Student.find().pretty();

[

{

\_id: ObjectId('661cf3165cfd460a349f990a'),

Rno: '1',

Name: 'Piyush',

Class: 'TE COMP'

},

{

\_id: ObjectId('661cf3575cfd460a349f990b'),

Rno: '2',

Name: 'Abhi',

Class: 'TE COMP'

},

{

\_id: ObjectId('661cf3945cfd460a349f990c'),

Rno: '3',

Name: 'Ashley',

Class: 'TE COMP'

},

{

\_id: ObjectId('661cf3a75cfd460a349f990d'),

Rno: '4',

Name: 'Henry',

Class: 'TE COMP'

},

{

\_id: ObjectId('661cf3ba5cfd460a349f990e'),

Rno: '5',

Name: 'Pratik',

Class: 'TE COMP'

},

{

\_id: ObjectId('661cf3c75cfd460a349f990f'),

Rno: '6',

Name: 'Pratik',

Class: 'TE COMP'

}

]

**//remove**

Keerthana> db.Student.remove({'ADD':'MP'});

DeprecationWarning: Collection.remove() is deprecated. Use deleteOne, deleteMany, findOneAndDelete, or bulkWrite.

{ acknowledged: true, deletedCount: 0 }

Keerthana> db.Student.find().pretty();

[

{

\_id: ObjectId('661cf3165cfd460a349f990a'),

Rno: '1',

Name: 'Piyush',

Class: 'TE COMP'

},

{

\_id: ObjectId('661cf3575cfd460a349f990b'),

Rno: '2',

Name: 'Abhi',

Class: 'TE COMP'

},

{

\_id: ObjectId('661cf3945cfd460a349f990c'),

Rno: '3',

Name: 'Ashley',

Class: 'TE COMP'

},

{

\_id: ObjectId('661cf3a75cfd460a349f990d'),

Rno: '4',

Name: 'Henry',

Class: 'TE COMP'

},

{

\_id: ObjectId('661cf3ba5cfd460a349f990e'),

Rno: '5',

Name: 'Pratik',

Class: 'TE COMP'

},

{

\_id: ObjectId('661cf3c75cfd460a349f990f'),

Rno: '6',

Name: 'Pratik',

Class: 'TE COMP'

}

]

**//save**

Keerthana> db.Student.update({'Name':'Piyush'},{$set: {'ADD':'MP'}});

{

acknowledged: true,

insertedId: null,

matchedCount: 1,

modifiedCount: 1,

upsertedCount: 0

}

Keerthana> db.Student.find().pretty();

[

{

\_id: ObjectId('661cf3165cfd460a349f990a'),

Rno: '1',

Name: 'Piyush',

Class: 'TE COMP',

ADD: 'MP'

},

{

\_id: ObjectId('661cf3575cfd460a349f990b'),

Rno: '2',

Name: 'Abhi',

Class: 'TE COMP'

},

{

\_id: ObjectId('661cf3945cfd460a349f990c'),

Rno: '3',

Name: 'Ashley',

Class: 'TE COMP'

},

{

\_id: ObjectId('661cf3a75cfd460a349f990d'),

Rno: '4',

Name: 'Henry',

Class: 'TE COMP'

},

{

\_id: ObjectId('661cf3ba5cfd460a349f990e'),

Rno: '5',

Name: 'Pratik',

Class: 'TE COMP'

},

{

\_id: ObjectId('661cf3c75cfd460a349f990f'),

Rno: '6',

Name: 'Pratik',

Class: 'TE COMP'

}

]

**//and**

Keerthana> db.Student.find({$and:[{"Name":"Piyush"},{"Rno":"1"}]}).pretty();

[

{

\_id: ObjectId('661cf3165cfd460a349f990a'),

Rno: '1',

Name: 'Piyush',

Class: 'TE COMP',

ADD: 'MP'

}

]

**//or**

Keerthana> db.Student.find({$or:[{"Name":"Piyush"},{"Rno":"2"}]}).pretty();

[

{

\_id: ObjectId('661cf3165cfd460a349f990a'),

Rno: '1',

Name: 'Piyush',

Class: 'TE COMP',

ADD: 'MP'

},

{

\_id: ObjectId('661cf3575cfd460a349f990b'),

Rno: '2',

Name: 'Abhi',

Class: 'TE COMP'

}

]

Keerthana> db.Student.find({$or:[{"Name":"Piyush"},{"Class":"TE COMP"}]}).pretty();

[

{

\_id: ObjectId('661cf3165cfd460a349f990a'),

Rno: '1',

Name: 'Piyush',

Class: 'TE COMP',

ADD: 'MP'

},

{

\_id: ObjectId('661cf3575cfd460a349f990b'),

Rno: '2',

Name: 'Abhi',

Class: 'TE COMP'

},

{

\_id: ObjectId('661cf3945cfd460a349f990c'),

Rno: '3',

Name: 'Ashley',

Class: 'TE COMP'

},

{

\_id: ObjectId('661cf3a75cfd460a349f990d'),

Rno: '4',

Name: 'Henry',

Class: 'TE COMP'

},

{

\_id: ObjectId('661cf3ba5cfd460a349f990e'),

Rno: '5',

Name: 'Pratik',

Class: 'TE COMP'

},

{

\_id: ObjectId('661cf3c75cfd460a349f990f'),

Rno: '6',

Name: 'Pratik',

Class: 'TE COMP'

}

]

**//nor**

Keerthana> db.Student.find({$nor:[{"Name":"Piyush"},{"Class":"TE COMP"}]}).pretty();

Keerthana> db.Student.find({$nor:[{"Name":"Piyush"},{"Rno":"2"}]}).pretty();

[

{

\_id: ObjectId('661cf3945cfd460a349f990c'),

Rno: '3',

Name: 'Ashley',

Class: 'TE COMP'

},

{

\_id: ObjectId('661cf3a75cfd460a349f990d'),

Rno: '4',

Name: 'Henry',

Class: 'TE COMP'

},

{

\_id: ObjectId('661cf3ba5cfd460a349f990e'),

Rno: '5',

Name: 'Pratik',

Class: 'TE COMP'

},

{

\_id: ObjectId('661cf3c75cfd460a349f990f'),

Rno: '6',

Name: 'Pratik',

Class: 'TE COMP'

}

]

**//eq**

Keerthana> db.Student.find({"Rno":{$eq:"5"}}).pretty();

[

{

\_id: ObjectId('661cf3ba5cfd460a349f990e'),

Rno: '5',

Name: 'Pratik',

Class: 'TE COMP'

}

]

**//ne**

Keerthana> db.Student.find({"Rno":{$ne:"5"}}).pretty();

[

{

\_id: ObjectId('661cf3165cfd460a349f990a'),

Rno: '1',

Name: 'Piyush',

Class: 'TE COMP',

ADD: 'MP'

},

{

\_id: ObjectId('661cf3575cfd460a349f990b'),

Rno: '2',

Name: 'Abhi',

Class: 'TE COMP'

},

{

\_id: ObjectId('661cf3945cfd460a349f990c'),

Rno: '3',

Name: 'Ashley',

Class: 'TE COMP'

},

{

\_id: ObjectId('661cf3a75cfd460a349f990d'),

Rno: '4',

Name: 'Henry',

Class: 'TE COMP'

},

{

\_id: ObjectId('661cf3c75cfd460a349f990f'),

Rno: '6',

Name: 'Pratik',

Class: 'TE COMP'

}

]

**//gt**

Keerthana> db.Student.find({"Rno":{$ne:"5"}}).pretty();

[

{

\_id: ObjectId('661cf3165cfd460a349f990a'),

Rno: '1',

Name: 'Piyush',

Class: 'TE COMP',

ADD: 'MP'

},

{

\_id: ObjectId('661cf3575cfd460a349f990b'),

Rno: '2',

Name: 'Abhi',

Class: 'TE COMP'

},

{

\_id: ObjectId('661cf3945cfd460a349f990c'),

Rno: '3',

Name: 'Ashley',

Class: 'TE COMP'

},

{

\_id: ObjectId('661cf3a75cfd460a349f990d'),

Rno: '4',

Name: 'Henry',

Class: 'TE COMP'

},

{

\_id: ObjectId('661cf3c75cfd460a349f990f'),

Rno: '6',

Name: 'Pratik',

Class: 'TE COMP'

}

]

Keerthana> db.Student.find({"Rno":{$gt:"5"}}).pretty();

[

{

\_id: ObjectId('661cf3c75cfd460a349f990f'),

Rno: '6',

Name: 'Pratik',

Class: 'TE COMP'

}

]

**//gte**

Keerthana> db.Student.find({"Rno":{$gte:"5"}}).pretty();

[

{

\_id: ObjectId('661cf3ba5cfd460a349f990e'),

Rno: '5',

Name: 'Pratik',

Class: 'TE COMP'

},

{

\_id: ObjectId('661cf3c75cfd460a349f990f'),

Rno: '6',

Name: 'Pratik',

Class: 'TE COMP'

}

]

**//lt**

Keerthana> db.Student.find({"Rno":{$lt:"5"}}).pretty();

[

{

\_id: ObjectId('661cf3165cfd460a349f990a'),

Rno: '1',

Name: 'Piyush',

Class: 'TE COMP',

ADD: 'MP'

},

{

\_id: ObjectId('661cf3575cfd460a349f990b'),

Rno: '2',

Name: 'Abhi',

Class: 'TE COMP'

},

{

\_id: ObjectId('661cf3945cfd460a349f990c'),

Rno: '3',

Name: 'Ashley',

Class: 'TE COMP'

},

{

\_id: ObjectId('661cf3a75cfd460a349f990d'),

Rno: '4',

Name: 'Henry',

Class: 'TE COMP'

}

]

**//lte**

Keerthana> db.Student.find({"Rno":{$lte:"5"}}).pretty();

[

{

\_id: ObjectId('661cf3165cfd460a349f990a'),

Rno: '1',

Name: 'Piyush',

Class: 'TE COMP',

ADD: 'MP'

},

{

\_id: ObjectId('661cf3575cfd460a349f990b'),

Rno: '2',

Name: 'Abhi',

Class: 'TE COMP'

},

{

\_id: ObjectId('661cf3945cfd460a349f990c'),

Rno: '3',

Name: 'Ashley',

Class: 'TE COMP'

},

{

\_id: ObjectId('661cf3a75cfd460a349f990d'),

Rno: '4',

Name: 'Henry',

Class: 'TE COMP'

},

{

\_id: ObjectId('661cf3ba5cfd460a349f990e'),

Rno: '5',

Name: 'Pratik',

Class: 'TE COMP'

}

]

Keerthana> db.Student.find({"Rno":{$lt:"5",$gt:"2"}}).pretty();

[

{

\_id: ObjectId('661cf3945cfd460a349f990c'),

Rno: '3',

Name: 'Ashley',

Class: 'TE COMP'

},

{

\_id: ObjectId('661cf3a75cfd460a349f990d'),

Rno: '4',

Name: 'Henry',

Class: 'TE COMP'

}

]

Keerthana> db.Student.find({"Rno":{$lte:"5",$gte:"2"}}).pretty();

[

{

\_id: ObjectId('661cf3575cfd460a349f990b'),

Rno: '2',

Name: 'Abhi',

Class: 'TE COMP'

},

{

\_id: ObjectId('661cf3945cfd460a349f990c'),

Rno: '3',

Name: 'Ashley',

Class: 'TE COMP'

},

{

\_id: ObjectId('661cf3a75cfd460a349f990d'),

Rno: '4',

Name: 'Henry',

Class: 'TE COMP'

},

{

\_id: ObjectId('661cf3ba5cfd460a349f990e'),

Rno: '5',

Name: 'Pratik',

Class: 'TE COMP'

}

]

Keerthana> db.Student.find({"Rno":{$lte:"5",$gt:"2"}}).pretty();

[

{

\_id: ObjectId('661cf3945cfd460a349f990c'),

Rno: '3',

Name: 'Ashley',

Class: 'TE COMP'

},

{

\_id: ObjectId('661cf3a75cfd460a349f990d'),

Rno: '4',

Name: 'Henry',

Class: 'TE COMP'

},

{

\_id: ObjectId('661cf3ba5cfd460a349f990e'),

Rno: '5',

Name: 'Pratik',

Class: 'TE COMP'

}

]

Keerthana> db.Student.find({"Rno":{$lt:"5",$gte:"2"}}).pretty();

[

{

\_id: ObjectId('661cf3575cfd460a349f990b'),

Rno: '2',

Name: 'Abhi',

Class: 'TE COMP'

},

{

\_id: ObjectId('661cf3945cfd460a349f990c'),

Rno: '3',

Name: 'Ashley',

Class: 'TE COMP'

},

{

\_id: ObjectId('661cf3a75cfd460a349f990d'),

Rno: '4',

Name: 'Henry',

Class: 'TE COMP'

}

]

**SET-12**

**1. Usage of aggregate functions**

**//USE DATABASE**

Keerthana> use comp;

switched to db comp

**//CREATE COLLECTION WEBSITE**

comp> db.createCollection('website');

{ ok: 1 }

**//INSERT VALUES IN WEBSITE**

comp> db.website.insert({'roll':'1','name':'harsh','amount':2000,'url':'www.yahoo.com'});

DeprecationWarning: Collection.insert() is deprecated. Use insertOne, insertMany, or bulkWrite.

{

acknowledged: true,

insertedIds: { '0': ObjectId('6626275b7c8411865c9f990a') }

}

comp> db.website.insert({'roll':'2','name':'jitesh','amount':2000,'url':'www.google.com'});

{

acknowledged: true,

insertedIds: { '0': ObjectId('662627d57c8411865c9f990b') }

}

comp> db.website.insert({'roll':'3','name':'rina','amount':3000,'url':'www.google.com'});

{

acknowledged: true,

insertedIds: { '0': ObjectId('662628157c8411865c9f990c') }

}

comp> db.website.insert({'roll':'4','name':'ash','amount':4000,'url':'www.gmail.com'});

{

acknowledged: true,

insertedIds: { '0': ObjectId('662628357c8411865c9f990d') }

}

comp> db.website.insert({'roll':'5','name':'ash','amount':5000,'url':'www.pvg.com'});

{

acknowledged: true,

insertedIds: { '0': ObjectId('6626284f7c8411865c9f990e') }

}

**//SUM AGGREGATE**

comp> db.website.aggregate({$group:{\_id:"$name","total":{$sum:"$amount"}}});

[

{ \_id: 'jitesh', total: 2000 },

{ \_id: 'ash', total: 9000 },

{ \_id: 'harsh', total: 2000 },

{ \_id: 'rina', total: 3000 }

]

**//AVG AGGREGATE**

comp> db.website.aggregate({$group:{\_id:"$name","total":{$avg:"$amount"}}});

[

{ \_id: 'jitesh', total: 2000 },

{ \_id: 'ash', total: 4500 },

{ \_id: 'rina', total: 3000 },

{ \_id: 'harsh', total: 2000 }

]

**//MIN AGGREGATE**

comp> db.website.aggregate({$group:{\_id:"$name","total":{$min:"$amount"}}});

[

{ \_id: 'jitesh', total: 2000 },

{ \_id: 'ash', total: 4000 },

{ \_id: 'harsh', total: 2000 },

{ \_id: 'rina', total: 3000 }

]

**//MAX AGGREGATE**

comp> db.website.aggregate({$group:{\_id:"$name","total":{$max:"$amount"}}});

[

{ \_id: 'jitesh', total: '2000' },

{ \_id: 'ash', total: '4000' },

{ \_id: 'harsh', total: '1000' },

{ \_id: 'rina', total: '3000' }

]

**//FIRST AGGREGATION**

comp> db.website.aggregate({$group:{\_id:"$name","total":{$first:"$amount"}}});

[

{ \_id: 'jitesh', total: '2000' },

{ \_id: 'ash', total: '4000' },

{ \_id: 'rina', total: '3000' },

{ \_id: 'harsh', total: '1000' }

]

**//LAST AGGREGATION**

comp> db.website.aggregate({$group:{\_id:"$name","total":{$last:"$amount"}}});

[

{ \_id: 'jitesh', total: 2000 },

{ \_id: 'ash', total: 5000 },

{ \_id: 'rina', total: 3000 },

{ \_id: 'harsh', total: 2000 }

]

**//PUSH AGGREGATION**

comp> db.website.aggregate({$group:{\_id:"$name","total":{$push:"$amount"}}});

[

{ \_id: 'jitesh', total: [ '2000', '2000', 2000 ] },

{ \_id: 'ash', total: [ '4000', 4000, 5000 ] },

{ \_id: 'rina', total: [ '3000', 3000 ] },

{ \_id: 'harsh', total: [ '1000', 2000 ] }

]

**//COUNT AGGREGATION**

comp> db.website.aggregate({$group:{\_id:"$name","total":{$sum:1}}});

[

{ \_id: 'jitesh', total: 3 },

{ \_id: 'ash', total: 3 },

{ \_id: 'harsh', total: 2 },

{ \_id: 'rina', total: 2 }

]

**//ADDTOSET AGGREGATE**

comp> db.website.aggregate({$group:{\_id:"$name","total":{$addToSet:"$amount"}}});

[

{ \_id: 'jitesh', total: [ 2000, '2000' ] },

{ \_id: 'ash', total: [ 5000, '4000', 4000 ] },

{ \_id: 'harsh', total: [ 2000, '1000' ] },

{ \_id: 'rina', total: [ '3000', 3000 ] }

]

**SET-13**

**1.Backup and restoring data**

comp> use demo

switched to db demo

demo> db.createCollection('student');

{ ok: 1 }

demo> db.Student.insert({'Rno':'1','Name':'amrutha','Class':'TE COMP'});

{

acknowledged: true,

insertedIds: { '0': ObjectId('662632a77c8411865c9f990f') }

}

demo> db.Student.insert({'Rno':'2','Name':'anakha','Class':'TE COMP'});

{

acknowledged: true,

insertedIds: { '0': ObjectId('662632be7c8411865c9f9910') }

}

demo> db.Student.insert({'Rno':'3','Name':'sherin','Class':'TE COMP'});

{

acknowledged: true,

insertedIds: { '0': ObjectId('662632d37c8411865c9f9911') }

}

demo> db.Student.insert({'Rno':'4','Name':'prathibha','Class':'TE COMP'});

{

acknowledged: true,

insertedIds: { '0': ObjectId('662633077c8411865c9f9912') }

}

demo> db.Student.insert({'Rno':'5','Name':'judith','Class':'TE COMP'});

{

acknowledged: true,

insertedIds: { '0': ObjectId('6626331c7c8411865c9f9913') }

}

demo> db.Student.insert({'Rno':'6','Name':'teena','Class':'TE COMP'});

{

acknowledged: true,

insertedIds: { '0': ObjectId('662633367c8411865c9f9914') }

}

demo> db.student.find().pretty();

demo> db.student.find()

demo> db.student.find();

demo> db.Student.find();

[

{

\_id: ObjectId('662632a77c8411865c9f990f'),

Rno: '1',

Name: 'amrutha',

Class: 'TE COMP'

},

{

\_id: ObjectId('662632be7c8411865c9f9910'),

Rno: '2',

Name: 'anakha',

Class: 'TE COMP'

},

{

\_id: ObjectId('662632d37c8411865c9f9911'),

Rno: '3',

Name: 'sherin',

Class: 'TE COMP'

},

{

\_id: ObjectId('662633077c8411865c9f9912'),

Rno: '4',

Name: 'prathibha',

Class: 'TE COMP'

},

{

\_id: ObjectId('6626331c7c8411865c9f9913'),

Rno: '5',

Name: 'judith',

Class: 'TE COMP'

},

{

\_id: ObjectId('662633367c8411865c9f9914'),

Rno: '6',

Name: 'teena',

Class: 'TE COMP'

}

]

demo> db.createCollection('employee');

{ ok: 1 }

demo> db.employee.insert({'eid':'107','ename':'anite','address':'cff','gender':'f'});

{

acknowledged: true,

insertedIds: { '0': ObjectId('662634a67c8411865c9f9915') }

}

demo> db.employee.insert({'eid':'108','ename':'anna','address':'cdf','gender':'f'});

{

acknowledged: true,

insertedIds: { '0': ObjectId('662634c27c8411865c9f9916') }

}

demo> db.employee.insert({'eid':'109','ename':'bharathy','address':'cff','gender':'f'});

{

acknowledged: true,

insertedIds: { '0': ObjectId('662634e37c8411865c9f9917') }

}

demo> db.employee.insert({'eid':'110','ename':'amrutha','address':'cff','gender':'f'});

{

acknowledged: true,

insertedIds: { '0': ObjectId('662635047c8411865c9f9918') }

}

demo> db.employee.find();

[

{

\_id: ObjectId('662634a67c8411865c9f9915'),

eid: '107',

ename: 'anite',

address: 'cff',

gender: 'f'

},

{

\_id: ObjectId('662634c27c8411865c9f9916'),

eid: '108',

ename: 'anna',

address: 'cdf',

gender: 'f'

},

{

\_id: ObjectId('662634e37c8411865c9f9917'),

eid: '109',

ename: 'bharathy',

address: 'cff',

gender: 'f'

},

{

\_id: ObjectId('662635047c8411865c9f9918'),

eid: '110',

ename: 'amrutha',

address: 'cff',

gender: 'f'

}

]