SET-12

1. Usage of aggregate functions

//USE DATABASE

> use comp;

switched to db comp

//CREATE COLLECTION WEBSITE

> db.createCollection('website');

{ "ok" : 1 }

//INSERT VALUES IN WEBSITE

>

db.website.insert({'roll':'1','name':'harsh','amount':1000,'ur

l':'www.yahoo.com'});

WriteResult({ "nInserted" : 1 })

>db.website.insert({'roll':'2','name':'jitesh','amount':2000,'url':'www.yahoo.com

'});

WriteResult({ "nInserted" : 1 })

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

});

WriteResult({ "nInserted" : 1 })

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

;

WriteResult({ "nInserted" : 1 })

>db.website.insert({'roll':'5','name':'ash','amount':1000,'url':'www.pvg.com'});

WriteResult({ "nInserted" : 1 })

//SUM AGGREGATE

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

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

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

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

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

//AVG AGGREGATE

> db.website.aggregate({$group:{\_id:"$name","total":

{$avg:"$amount"}}});

{ "\_id" : "ash", "total" : 2500 }

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

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

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

//MIN AGGREGATION

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

{ "\_id" : "ash", "total" : 1000 }

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

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

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

//MAX AGGREGATION

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

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

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

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

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

//FIRST AGGREGATION

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

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

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

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

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

//LAST AGGREGATION

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

{ "\_id" : "ash", "total" : 1000 }

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

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

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

//PUSH AGGREGATION

> db.website.aggregate({$group:{\_id:"$name","total":

{$push:"$amount"}}});

{ "\_id" : "ash", "total" : [ 4000, 1000 ] }

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

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

{ "\_id" : "harsh", "total" : [ 1000, 1000 ] }

//COUNT AGGREGATION

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

{ "\_id" : "ash", "total" : 2 }

{ "\_id" : "rina", "total" : 1 }

{ "\_id" : "jitesh", "total" : 1 }

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

//ADDTOSET AGGREGATE

> db.website.aggregate({$group:

{\_id:"$name","total"{$addToSet:"$amount"}}});

{ "\_id" : "ash", "total" : [ 1000, 4000 ] }

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

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

{ "\_id" : "harsh", "total" : [ 1000 ] }