Windows PowerShell

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PS C:\Users\HP> mongosh

Current Mongosh Log ID: 653a0e1d5f62b60a34f4a231

Connecting to: mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+2.0.2

Using MongoDB: 7.0.0

Using Mongosh: 2.0.2

For mongosh info see: https://docs.mongodb.com/mongodb-shell/

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The server generated these startup warnings when booting

2023-10-16T01:34:24.222+05:30: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted

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test> use Shubham

switched to db Shubham

Shubham> db.stud.find({})

[

{

\_id: ObjectId("65394c4179bc104fb33a3d59"),

rno: 16,

name: 'Shubham',

subject: 'DBMS',

marks: 45

},

{

\_id: ObjectId("65394c4179bc104fb33a3d5a"),

rno: 16,

name: 'Shubham',

subject: 'CNS',

marks: 40

},

{

\_id: ObjectId("65394c4179bc104fb33a3d5b"),

rno: 16,

name: 'Shubham',

subject: 'TOC',

marks: 30

},

{

\_id: ObjectId("65394c9c79bc104fb33a3d5c"),

rno: 13,

name: 'Ram',

subject: 'CNS',

marks: 45

},

{

\_id: ObjectId("65394c9c79bc104fb33a3d5d"),

rno: 16,

name: 'Ram',

subject: 'TOC',

marks: 40

},

{

\_id: ObjectId("65394c9c79bc104fb33a3d5e"),

rno: 13,

name: 'Ram',

subject: 'DSA',

marks: 45

},

{

\_id: ObjectId("65394cd979bc104fb33a3d5f"),

rno: 16,

name: 'Pratik',

subject: 'DBMS',

marks: 40

},

{

\_id: ObjectId("65394cd979bc104fb33a3d60"),

rno: 11,

name: 'Pratik',

subject: 'CNS',

marks: 50

},

{

\_id: ObjectId("65394cd979bc104fb33a3d61"),

rno: 11,

name: 'Pratik',

subject: 'TOC',

marks: 20

},

{

\_id: ObjectId("65394d1979bc104fb33a3d62"),

rno: 1,

name: 'Sid',

subject: 'DBMS',

marks: 30

},

{

\_id: ObjectId("65394d1979bc104fb33a3d63"),

rno: 11,

name: 'Sid',

subject: 'CNS',

marks: 30

},

{

\_id: ObjectId("65394d1979bc104fb33a3d64"),

rno: 1,

name: 'Sid',

subject: 'TOC',

marks: 50

}

]

Shubham> var mapFunction = function() { emit( this.name , this.marks);};

Shubham> var reduceFunction = function( name , marks ){ return Array.sum(marks);};

Shubham> db.stud.mapReduce(mapfunction , reduceFunction , {out:"totalMarks"})

ReferenceError: mapfunction is not defined

Shubham> db.stud.mapReduce(mapFunction , reduceFunction , {out:"totalMarks"})

DeprecationWarning: Collection.mapReduce() is deprecated. Use an aggregation instead.

See https://docs.mongodb.com/manual/core/map-reduce for details.

{ result: 'totalMarks', ok: 1 }

Shubham> db.totalMarks.find({})

[

{ \_id: 'Shubham', value: 115 },

{ \_id: 'Pratik', value: 110 },

{ \_id: 'Sid', value: 110 },

{ \_id: 'Ram', value: 130 }

]

Shubham> var reduceAvg = function( name , marks ){ return Array.avg(marks);};

Shubham> db.stud.mapReduce(mapFunction , reduceAvg , {out:"avgMarks"})

{ result: 'avgMarks', ok: 1 }

Shubham> db.avgMarks.find({}).sort({value:-1})

[

{ \_id: 'Ram', value: 43.333333333333336 },

{ \_id: 'Shubham', value: 38.333333333333336 },

{ \_id: 'Pratik', value: 36.666666666666664 },

{ \_id: 'Sid', value: 36.666666666666664 }

]

Shubham>

var reduceCustom = function (name , marks ) {

var totalMarks = Array.sum(marks);

if(totalMarks <115 ){

return "Class C"; }

else if (totalMarks >= 115 && totalMarks <=120){

return "Class B";}

else if(totalMarks >120){

return "Class A";}

else{

return "Fail";}

}

db.stud.mapReduce(mapFunction , reduceCustom , { out: "Class"})