Microsoft Windows [Version 10.0.19045.6332]

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C:\Program Files\MongoDB\Server\8.2\bin>mongosh

Current Mongosh Log ID: 68e4b74ff954eb37f2cebea3

Connecting to: mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+2.5.8

Using MongoDB: 8.2.0

Using Mongosh: 2.5.8

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

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The server generated these startup warnings when booting

2025-09-26T10:01:29.579+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> show dbs;

Demo 68.00 KiB

Demo1 72.00 KiB

admin 48.00 KiB

aggregate 8.00 KiB

bank 8.00 KiB

company 8.00 KiB

config 108.00 KiB

demoexample 68.00 KiB

ja 8.00 KiB

james 72.00 KiB

local 72.00 KiB

query 32.00 KiB

school 200.00 KiB

test 136.00 KiB

test> use bank;

switched to db bank

bank> db.createCollection("customer");

{ ok: 1 }

bank> db.customer.insertOne({custid:1,name:"ajay",name:"Kotak",branch:"Talegaon",balance:50000});

{

acknowledged: true,

insertedId: ObjectId('68e4b88cf954eb37f2cebea4')

}

bank> db.customer.insertOne({custid:1,name:"suraj",name:"HDFC",branch:"Talegaon",balance:34000});

{

acknowledged: true,

insertedId: ObjectId('68e4b89ff954eb37f2cebea5')

}

bank> db.customer.insertOne({custid:1,name:"naresh",name:"SBI",branch:"Akurdi",balance:12000});

{

acknowledged: true,

insertedId: ObjectId('68e4b8baf954eb37f2cebea6')

}

bank> db.customer.aggregate([{$group:{\_id:101,total\_bal:{$sum:"$balance"}}}]);

[ { \_id: 101, total\_bal: 96000 } ]

bank> db.customer.aggregate([{$group:{\_id:101,min\_bal:{$min:"$balance"}}}]);

[ { \_id: 101, min\_bal: 12000 } ]

bank> db.customer.aggregate([{$group:{\_id:101,max\_bal:{$max:"$balance"}}}]);

[ { \_id: 101, max\_bal: 50000 } ]

bank> db.customer.aggregate([{$group:{\_id:101,avg\_bal:{$avg:"$balance"}}}]);

[ { \_id: 101, avg\_bal: 32000 } ]

bank> db.customer.aggregate([{$group:{\_id:101,push\_bal:{$push:"$balance"}}}]);

[ { \_id: 101, push\_bal: [ 50000, 34000, 12000 ] } ]

bank> db.customer.count();

DeprecationWarning: Collection.count() is deprecated. Use countDocuments or estimatedDocumentCount.

3

bank> db.customer.aggregate([{$group:{\_id:101,count:{$count:"$balance"}}}]);

MongoServerError[TypeMismatch]: $count takes no arguments, i.e. $count:{}

bank> db.customer.aggregate([

... {

... $group: {

... \_id: "$accountType",

... totalBalance: { $sum: "$balance" }

... }

... },

... {

... $sort: { totalBalance: -1 } // Sorts by total balance descending

... }

... ]);

[ { \_id: null, totalBalance: 96000 } ]

... { $sort: { balance: 1 } } // Sorts by balance ascending

... ]);

[

{

\_id: ObjectId('68e4b8baf954eb37f2cebea6'),

custid: 1,

name: 'SBI',

branch: 'Akurdi',

balance: 12000

},

{

\_id: ObjectId('68e4b89ff954eb37f2cebea5'),

custid: 1,

name: 'HDFC',

branch: 'Talegaon',

balance: 34000

},

{

\_id: ObjectId('68e4b88cf954eb37f2cebea4'),

custid: 1,

name: 'Kotak',

branch: 'Talegaon',

balance: 50000

}

]

bank> db.customer.aggregate([{$sort :{balance:-1}}]);

[

{

\_id: ObjectId('68e4b88cf954eb37f2cebea4'),

custid: 1,

name: 'Kotak',

branch: 'Talegaon',

balance: 50000

},

{

\_id: ObjectId('68e4b89ff954eb37f2cebea5'),

custid: 1,

name: 'HDFC',

branch: 'Talegaon',

balance: 34000

},

{

\_id: ObjectId('68e4b8baf954eb37f2cebea6'),

custid: 1,

name: 'SBI',

branch: 'Akurdi',

balance: 12000

}

]

bank> db.customer.createIndex({\_id:101});

\_id\_101b.customer.aggregate([{$group:{\_id:null,total\_bal:{$avg:'$bal'}}}]);

bank> db.customer.createIndex({\_id:1});

\_id\_1

bank> db.customer.createIndex({name:1});

name\_1

bank> db.customer.createIndex({bal:1});

bal\_1

bank> db.customer.createIndex({bank:1});

bank\_1

bank> db.customer.createIndex({location:1});

location\_1

bank> db.customer.find({\_id:101});

[

{ \_id: 101, name: 'Sai', bal: 20000, bank: 'SBI', location: 'Pune' }

]

bank> db.customer.getIndexes();

[

{ v: 2, key: { \_id: 1 }, name: '\_id\_' },

{ v: 2, key: { \_id: 101 }, name: '\_id\_101' },

{ v: 2, key: { name: 1 }, name: 'name\_1' },

{ v: 2, key: { bal: 1 }, name: 'bal\_1' },

{ v: 2, key: { bank: 1 }, name: 'bank\_1' },

{ v: 2, key: { location: 1 }, name: 'location\_1' }