# PRACTICAL: 12

Please enter a MongoDB connection string (Default: mongodb://localhost/): collections;

collections;

Current Mongosh Log ID: 68ec8ecf2a349b65dfcebea3

Connecting to: mongodb://127.0.0.1:27017/collections%3B?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

2025-10-03T16:02:33.628+05:30: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted

------

collections;> use employee

switched to db employee

employee> db.emp\_a3.find();

[

{

\_id: ObjectId('68ec8eb2e7f9009c9c650ae0'),

ID: 1,

Experience\_Years: 5,

Age: 28,

Gender: 'Female',

Salary: 250000

},

{

\_id: ObjectId('68ec8eb2e7f9009c9c650ae1'),

ID: 2,

Experience\_Years: 1,

Age: 21,

Gender: 'Male',

Salary: 50000

},

{

\_id: ObjectId('68ec8eb2e7f9009c9c650ae2'),

ID: 3,

Experience\_Years: 3,

Age: 23,

Gender: 'Female',

Salary: 170000

},

{

\_id: ObjectId('68ec8eb2e7f9009c9c650ae3'),

ID: 4,

Experience\_Years: 2,

Age: 22,

Gender: 'Male',

Salary: 25000

},

{

\_id: ObjectId('68ec8eb2e7f9009c9c650ae4'),

ID: 5,

Experience\_Years: 1,

Age: 17,

Gender: 'Male',

Salary: 10000

},

{

\_id: ObjectId('68ec8eb2e7f9009c9c650ae5'),

ID: 6,

Experience\_Years: 25,

Age: 62,

Gender: 'Male',

Salary: 5001000

},

{

\_id: ObjectId('68ec8eb2e7f9009c9c650ae6'),

ID: 7,

Experience\_Years: 19,

Age: 54,

Gender: 'Female',

Salary: 800000

},

{

\_id: ObjectId('68ec8eb2e7f9009c9c650ae7'),

ID: 8,

Experience\_Years: 2,

Age: 21,

Gender: 'Female',

Salary: 9000

},

{

\_id: ObjectId('68ec8eb2e7f9009c9c650ae8'),

ID: 9,

Experience\_Years: 10,

Age: 36,

Gender: 'Female',

Salary: 61500

},

{

\_id: ObjectId('68ec8eb2e7f9009c9c650ae9'),

ID: 10,

Experience\_Years: 15,

Age: 54,

Gender: 'Female',

Salary: 650000

},

{

\_id: ObjectId('68ec8eb2e7f9009c9c650aea'),

ID: 11,

Experience\_Years: 4,

Age: 26,

Gender: 'Female',

Salary: 250000

},

{

\_id: ObjectId('68ec8eb2e7f9009c9c650aeb'),

ID: 12,

Experience\_Years: 6,

Age: 29,

Gender: 'Male',

Salary: 1400000

},

{

\_id: ObjectId('68ec8eb2e7f9009c9c650aec'),

ID: 13,

Experience\_Years: 14,

Age: 39,

Gender: 'Male',

Salary: 6000050

},

{

\_id: ObjectId('68ec8eb2e7f9009c9c650aed'),

ID: 14,

Experience\_Years: 11,

Age: 40,

Gender: 'Male',

Salary: 220100

},

{

\_id: ObjectId('68ec8eb2e7f9009c9c650aee'),

ID: 15,

Experience\_Years: 2,

Age: 23,

Gender: 'Male',

Salary: 7500

},

{

\_id: ObjectId('68ec8eb2e7f9009c9c650aef'),

ID: 16,

Experience\_Years: 4,

Age: 27,

Gender: 'Female',

Salary: 87000

},

{

\_id: ObjectId('68ec8eb2e7f9009c9c650af0'),

ID: 17,

Experience\_Years: 10,

Age: 34,

Gender: 'Female',

Salary: 930000

},

{

\_id: ObjectId('68ec8eb2e7f9009c9c650af1'),

ID: 18,

Experience\_Years: 15,

Age: 54,

Gender: 'Female',

Salary: 7900000

},

{

\_id: ObjectId('68ec8eb2e7f9009c9c650af2'),

ID: 19,

Experience\_Years: 2,

Age: 21,

Gender: 'Male',

Salary: 15000

},

{

\_id: ObjectId('68ec8eb2e7f9009c9c650af3'),

ID: 20,

Experience\_Years: 10,

Age: 36,

Gender: 'Male',

Salary: 330000

}

]

Type "it" for more

employee> var map=function(){emit(this.Gender,this.Salary)}

employee> var reduce=function(Gender,Salary){return Array.sum(Salary)}

employee> db.emp\_a3.mapReduce(map,reduce,{out:'empsal'});

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

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

{ result: 'empsal', ok: 1 }

employee> db.empsal.find();

[

{ \_id: 'Female', value: 36988500 },

{ \_id: 'Male', value: 35081650 }

]

employee> db.bank.find()

employee> db.bank.find()

[

{

\_id: ObjectId('68ec8f97e7f9009c9c650b04'),

date: ISODate('2022-01-01T00:00:00.000Z'),

DrCr: 'Db',

amount: 10000,

balance: 473292.87,

mode: 'ATM',

Day: 1,

Month: 1,

Year: 2022,

Tday: 1

},

{

\_id: ObjectId('68ec8f97e7f9009c9c650b05'),

date: ISODate('2022-01-01T00:00:00.000Z'),

DrCr: 'Db',

amount: 10000,

balance: 463292.87,

mode: 'ATM',

Day: 1,

Month: 1,

Year: 2022,

Tday: 1

},

{

\_id: ObjectId('68ec8f97e7f9009c9c650b06'),

date: ISODate('2022-01-02T00:00:00.000Z'),

DrCr: 'Db',

amount: 930,

balance: 462362.87,

mode: 'UPI',

name: 'AYUBRAJE',

Day: 2,

Month: 1,

Year: 2022,

Tday: 2

},

{

\_id: ObjectId('68ec8f97e7f9009c9c650b07'),

date: ISODate('2022-01-07T00:00:00.000Z'),

DrCr: 'Db',

amount: 2000,

balance: 460362.87,

mode: 'UPI',

name: 'ABUTALAH',

Day: 7,

Month: 1,

Year: 2022,

Tday: 3

},

{

\_id: ObjectId('68ec8f97e7f9009c9c650b08'),

date: ISODate('2022-01-10T00:00:00.000Z'),

DrCr: 'Db',

amount: 1000,

balance: 459362.87,

mode: 'UPI',

name: 'AGRAWALB',

Day: 10,

Month: 1,

Year: 2022,

Tday: 4

},

{

\_id: ObjectId('68ec8f97e7f9009c9c650b09'),

date: ISODate('2022-01-10T00:00:00.000Z'),

DrCr: 'Db',

amount: 1800,

balance: 457562.87,

mode: 'UPI',

name: 'GOASELEC',

Day: 10,

Month: 1,

Year: 2022,

Tday: 4

},

{

\_id: ObjectId('68ec8f97e7f9009c9c650b0a'),

date: ISODate('2022-01-10T00:00:00.000Z'),

DrCr: 'Db',

amount: 5000,

balance: 452562.87,

mode: 'UPI',

name: 'GOASELEC',

Day: 10,

Month: 1,

Year: 2022,

Tday: 4

},

{

\_id: ObjectId('68ec8f97e7f9009c9c650b0b'),

date: ISODate('2022-01-10T00:00:00.000Z'),

DrCr: 'Db',

amount: 3000,

balance: 449562.87,

mode: 'UPI',

name: 'AGRAWALB',

Day: 10,

Month: 1,

Year: 2022,

Tday: 4

},

{

\_id: ObjectId('68ec8f97e7f9009c9c650b0c'),

date: ISODate('2022-01-10T00:00:00.000Z'),

DrCr: 'Cr',

amount: 2400,

balance: 451962.87,

mode: 'NEFT',

Day: 10,

Month: 1,

Year: 2022,

Tday: 4

},

{

\_id: ObjectId('68ec8f97e7f9009c9c650b0d'),

date: ISODate('2022-01-12T00:00:00.000Z'),

DrCr: 'Cr',

amount: 1,

balance: 451963.87,

mode: 'UPI',

name: 'NAFEESAB',

Day: 12,

Month: 1,

Year: 2022,

Tday: 5

},

{

\_id: ObjectId('68ec8f97e7f9009c9c650b0e'),

date: ISODate('2022-01-12T00:00:00.000Z'),

DrCr: 'Cr',

amount: 1000,

balance: 452963.87,

mode: 'UPI',

name: 'NAFEESAB',

Day: 12,

Month: 1,

Year: 2022,

Tday: 5

},

{

\_id: ObjectId('68ec8f97e7f9009c9c650b0f'),

date: ISODate('2022-01-12T00:00:00.000Z'),

DrCr: 'Db',

amount: 1000,

balance: 451963.87,

mode: 'UPI',

name: 'MAHAMMADH',

Day: 12,

Month: 1,

Year: 2022,

Tday: 5

},

{

\_id: ObjectId('68ec8f97e7f9009c9c650b10'),

date: ISODate('2022-01-12T00:00:00.000Z'),

DrCr: 'Db',

amount: 275,

balance: 451688.87,

mode: 'UPI',

name: 'PHONEPE',

Day: 12,

Month: 1,

Year: 2022,

Tday: 5

},

{

\_id: ObjectId('68ec8f97e7f9009c9c650b11'),

date: ISODate('2022-01-12T00:00:00.000Z'),

DrCr: 'Db',

amount: 85,

balance: 451603.87,

mode: 'UPI',

name: 'PHONEPE',

Day: 12,

Month: 1,

Year: 2022,

Tday: 5

},

{

\_id: ObjectId('68ec8f97e7f9009c9c650b12'),

date: ISODate('2022-01-13T00:00:00.000Z'),

DrCr: 'Db',

amount: 563,

balance: 451040.87,

mode: 'UPI',

name: 'FLIPKART',

Day: 13,

Month: 1,

Year: 2022,

Tday: 6

},

{

\_id: ObjectId('68ec8f97e7f9009c9c650b13'),

date: ISODate('2022-01-14T00:00:00.000Z'),

DrCr: 'Db',

amount: 7000,

balance: 444040.87,

mode: 'UPI',

name: 'BUDESAHEB',

Day: 14,

Month: 1,

Year: 2022,

Tday: 7

},

{

\_id: ObjectId('68ec8f97e7f9009c9c650b14'),

date: ISODate('2022-01-22T00:00:00.000Z'),

DrCr: 'Db',

amount: 189,

balance: 443851.87,

mode: 'UPI',

name: 'FLIPKART',

Day: 22,

Month: 1,

Year: 2022,

Tday: 8

},

{

\_id: ObjectId('68ec8f97e7f9009c9c650b15'),

date: ISODate('2022-01-25T00:00:00.000Z'),

DrCr: 'Cr',

amount: 7.09,

balance: 443858.96,

mode: 'ECS',

Day: 25,

Month: 1,

Year: 2022,

Tday: 9

},

{

\_id: ObjectId('68ec8f97e7f9009c9c650b16'),

date: ISODate('2022-01-29T00:00:00.000Z'),

DrCr: 'Cr',

amount: 2400,

balance: 446258.96,

mode: 'NEFT',

Day: 29,

Month: 1,

Year: 2022,

Tday: 10

},

{

\_id: ObjectId('68ec8f97e7f9009c9c650b17'),

date: ISODate('2022-01-29T00:00:00.000Z'),

DrCr: 'Db',

amount: 142,

balance: 446116.96,

mode: 'DEBIT CARD ANNUAL',

Day: 29,

Month: 1,

Year: 2022,

Tday: 10

}

]

Type "it" for more

employee> db.bank1.find();

employee> show dbs;

Bank 240.00 KiB

BankExample1 696.00 KiB

DEMO1 40.00 KiB

EmployeeExample 232.00 KiB

admin 40.00 KiB

college 8.00 KiB

company 68.00 KiB

config 100.00 KiB

demo 4.20 MiB

demoa3 72.00 KiB

demobhakti 80.00 KiB

demoexmple 68.00 KiB

demoxyz 112.00 KiB

emp\_a3 892.00 KiB

employee 136.00 KiB

local 64.00 KiB

test 56.00 KiB

employee> var map1=function(){emit(this.job,this.balance)}

employee> var reduce1=function(job,balance){return Array.sum(balance)}

employee> db.bank.mapReduce(map1,reduce1,{out:'bankout'});

{ result: 'bankout', ok: 1 }

employee> db.bankout.find();

[ { \_id: null, value: 58979698.79000006 } ]