**Map Reduce**

Microsoft Windows [Version 10.0.19045.6332]

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

Current Mongosh Log ID: 68e78224d8ce5a48eacebea3

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

2025-10-03T16:02:39.393+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 cricketexample

switched to db cricketexample

cricketexample> db.players.find()

[

{

'0': 14,

'50': 68,

'100': 51,

\_id: ObjectId('68e77fa330c55ec2c0b47748'),

'': 0,

Player: 'SR Tendulkar (INDIA)',

Span: '1989-2013',

Mat: 200,

Inns: 329,

NO: 33,

Runs: 15921,

HS: '248\*',

Ave: 53.78

},

{

'0': 17,

'50': 62,

'100': 41,

\_id: ObjectId('68e77fa330c55ec2c0b47749'),

'': 1,

Player: 'RT Ponting (AUS)',

Span: '1995-2012',

Mat: 168,

Inns: 287,

NO: 29,

Runs: 13378,

HS: 257,

Ave: 51.85

},

{

'0': 16,

'50': 58,

'100': 45,

\_id: ObjectId('68e77fa330c55ec2c0b4774a'),

'': 2,

Player: 'JH Kallis (ICC/SA)',

Span: '1995-2013',

Mat: 166,

Inns: 280,

NO: 40,

Runs: 13289,

HS: 224,

Ave: 55.37

},

{

'0': 8,

'50': 63,

'100': 36,

\_id: ObjectId('68e77fa330c55ec2c0b4774b'),

'': 3,

Player: 'R Dravid (ICC/INDIA)',

Span: '1996-2012',

Mat: 164,

Inns: 286,

NO: 32,

Runs: 13288,

HS: 270,

Ave: 52.31

},

{

'0': 9,

'50': 57,

'100': 33,

\_id: ObjectId('68e77fa330c55ec2c0b4774c'),

'': 4,

Player: 'AN Cook (ENG)',

Span: '2006-2018',

Mat: 161,

Inns: 291,

NO: 16,

Runs: 12472,

HS: 294,

Ave: 45.35

},

{

'0': 11,

'50': 52,

'100': 38,

\_id: ObjectId('68e77fa330c55ec2c0b4774d'),

'': 5,

Player: 'KC Sangakkara (SL)',

Span: '2000-2015',

Mat: 134,

Inns: 233,

NO: 17,

Runs: 12400,

HS: 319,

Ave: 57.4

},

{

'0': 17,

'50': 48,

'100': 34,

\_id: ObjectId('68e77fa330c55ec2c0b4774e'),

'': 6,

Player: 'BC Lara (ICC/WI)',

Span: '1990-2006',

Mat: 131,

Inns: 232,

NO: 6,

Runs: 11953,

HS: '400\*',

Ave: 52.88

},

{

'0': 15,

'50': 66,

'100': 30,

\_id: ObjectId('68e77fa330c55ec2c0b4774f'),

'': 7,

Player: 'S Chanderpaul (WI)',

Span: '1994-2015',

Mat: 164,

Inns: 280,

NO: 49,

Runs: 11867,

HS: '203\*',

Ave: 51.37

},

{

'0': 15,

'50': 50,

'100': 34,

\_id: ObjectId('68e77fa330c55ec2c0b47750'),

'': 8,

Player: 'DPMD Jayawardene (SL)',

Span: '1997-2014',

Mat: 149,

Inns: 252,

NO: 15,

Runs: 11814,

HS: 374,

Ave: 49.84

},

{

'0': 11,

'50': 63,

'100': 27,

\_id: ObjectId('68e77fa330c55ec2c0b47751'),

'': 9,

Player: 'AR Border (AUS)',

Span: '1978-1994',

Mat: 156,

Inns: 265,

NO: 44,

Runs: 11174,

HS: 205,

Ave: 50.56

},

{

'0': 22,

'50': 50,

'100': 32,

\_id: ObjectId('68e77fa330c55ec2c0b47752'),

'': 10,

Player: 'SR Waugh (AUS)',

Span: '1985-2004',

Mat: 168,

Inns: 260,

NO: 46,

Runs: 10927,

HS: 200,

Ave: 51.06

},

{

'0': 12,

'50': 45,

'100': 34,

\_id: ObjectId('68e77fa330c55ec2c0b47753'),

'': 11,

Player: 'SM Gavaskar (INDIA)',

Span: '1971-1987',

Mat: 125,

Inns: 214,

NO: 16,

Runs: 10122,

HS: '236\*',

Ave: 51.12

},

{

'0': 19,

'50': 33,

'100': 34,

\_id: ObjectId('68e77fa330c55ec2c0b47754'),

'': 12,

Player: 'Younis Khan (PAK)',

Span: '2000-2017',

Mat: 118,

Inns: 213,

NO: 19,

Runs: 10099,

HS: 313,

Ave: 52.05

},

{

'0': 13,

'50': 41,

'100': 28,

\_id: ObjectId('68e77fa330c55ec2c0b47755'),

'': 13,

Player: 'HM Amla (SA)',

Span: '2004-2019',

Mat: 124,

Inns: 215,

NO: 16,

Runs: 9282,

HS: '311\*',

Ave: 46.64

},

{

'0': 11,

'50': 38,

'100': 27,

\_id: ObjectId('68e77fa330c55ec2c0b47756'),

'': 14,

Player: 'GC Smith (ICC/SA)',

Span: '2002-2014',

Mat: 117,

Inns: 205,

NO: 13,

Runs: 9265,

HS: 277,

Ave: 48.25

},

{

'0': 13,

'50': 46,

'100': 20,

\_id: ObjectId('68e77fa330c55ec2c0b47757'),

'': 15,

Player: 'GA Gooch (ENG)',

Span: '1975-1995',

Mat: 118,

Inns: 215,

NO: 6,

Runs: 8900,

HS: 333,

Ave: 42.58

},

{

'0': 6,

'50': 43,

'100': 23,

\_id: ObjectId('68e77fa330c55ec2c0b47758'),

'': 16,

Player: 'Javed Miandad (PAK)',

Span: '1976-1993',

Mat: 124,

Inns: 189,

NO: 21,

Runs: 8832,

HS: '280\*',

Ave: 52.57

},

{

'0': 15,

'50': 46,

'100': 25,

\_id: ObjectId('68e77fa330c55ec2c0b47759'),

'': 17,

Player: 'Inzamam-ul-Haq (ICC/PAK)',

Span: '1992-2007',

Mat: 120,

Inns: 200,

NO: 22,

Runs: 8830,

HS: 329,

Ave: 49.6

},

{

'0': 14,

'50': 56,

'100': 17,

\_id: ObjectId('68e77fa330c55ec2c0b4775a'),

'': 18,

Player: 'VVS Laxman (INDIA)',

Span: '1996-2012',

Mat: 134,

Inns: 225,

NO: 34,

Runs: 8781,

HS: 281,

Ave: 45.97

},

{

'0': 8,

'50': 46,

'100': 22,

\_id: ObjectId('68e77fa330c55ec2c0b4775b'),

'': 19,

Player: 'AB de Villiers (SA)',

Span: '2004-2018',

Mat: 114,

Inns: 191,

NO: 18,

Runs: 8765,

HS: '278\*',

Ave: 50.66

}

]

Type "it" for more

cricketexample> var map=function(){emit(this.Inns,this.Runs)}

cricketexample> var reduce+function(Inns,Runs){return Array.sum(Runs)}

Uncaught:

SyntaxError: Missing semicolon. (1:10)

> 1 | var reduce+function(Inns,Runs){return Array.sum(Runs)}

| ^

2 |

cricketexample> var reduce=function(Inns,Runs){return Array.sum(Runs)}

cricketexample> db.players.mapReduce(map,reduce,(out;'cricketop'})

Uncaught:

SyntaxError: Unexpected token, expected "," (1:36)

> 1 | db.players.mapReduce(map,reduce,(out;'cricketop'})

| ^

2 |

cricketexample> db.players.mapReduce(map,reduce,(out:'cricketop'})

Uncaught:

SyntaxError: Unexpected token, expected "," (1:36)

> 1 | db.players.mapReduce(map,reduce,(out:'cricketop'})

| ^

2 |

cricketexample> db.players.mapReduce(map,reduce,{out:'cricketop'})

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

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

{ result: 'cricketop', ok: 1 }

cricketexample> db.cricketop.find()

[

{ \_id: 94, value: 11533 },

{ \_id: 286, value: 13288 },

{ \_id: 88, value: 7521 },

{ \_id: 29, value: 13408 },

{ \_id: 186, value: 7525 },

{ \_id: 211, value: 1181 },

{ \_id: 176, value: 13742 },

{ \_id: 198, value: 8643 },

{ \_id: 49, value: 11578 },

{ \_id: 28, value: 10024 },

{ \_id: 146, value: 11834 },

{ \_id: 95, value: 861 },

{ \_id: 14, value: 10739 },

{ \_id: 200, value: 8830 },

{ \_id: 129, value: 4210 },

{ \_id: 86, value: 14271 },

{ \_id: 53, value: 13681 },

{ \_id: 137, value: 35262 },

{ \_id: 159, value: 6361 },

{ \_id: 34, value: 16850 }

]

Type "it" for more

cricketexample>