**Group B: Assignment no.2**

Microsoft Windows [Version 10.0.19045.6332]

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

Current Mongosh Log ID: 68e8ce415c6078ac2dcebea3

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

2025-09-28T21:12:59.884-07:00: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted

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test> use demoxyz;

switched to db demoxyz

demoxyz> show collections;

demoxyz> db.createCollection('fees');

{ ok: 1 }

demoxyz> db.fees.insertOne({rollno:101,name:'mohit',class:'TE',amount:45000,pdate:'12-07-2025'});

{

acknowledged: true,

insertedId: ObjectId('68e8cec05c6078ac2dcebea4')

}

demoxyz> db.fees.insertMany([{rollno:102,name:'Rohit',class:'TE',amount:40000,pdate:'13-07-2025'},{rollno:103,name:'mohan',class:'BE',amount:50000}]);

{

acknowledged: true,

insertedIds: {

'0': ObjectId('68e8cf265c6078ac2dcebea5'),

'1': ObjectId('68e8cf265c6078ac2dcebea6')

}

}

demoxyz> db.fees.find();

[

{

\_id: ObjectId('68e8cec05c6078ac2dcebea4'),

rollno: 101,

name: 'mohit',

class: 'TE',

amount: 45000,

pdate: '12-07-2025'

},

{

\_id: ObjectId('68e8cf265c6078ac2dcebea5'),

rollno: 102,

name: 'Rohit',

class: 'TE',

amount: 40000,

pdate: '13-07-2025'

},

{

\_id: ObjectId('68e8cf265c6078ac2dcebea6'),

rollno: 103,

name: 'mohan',

class: 'BE',

amount: 50000

}

]

demoxyz> db.fees.count();

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

3

demoxyz> db.fees.aggregate([{$group:{\_id:null,total\_amount:{$sum:'amount'}}}])

[ { \_id: null, total\_amount: 0 } ]

demoxyz> db.fees.aggregate([{$group:{\_id:null,total\_amount:{$sum:'$amount'}}}])

[ { \_id: null, total\_amount: 135000 } ]

demoxyz> db.fees.aggregate([{$group:{\_id:'$class',total\_amount:{$sum:'amount'}}}])

[ { \_id: 'TE', total\_amount: 0 }, { \_id: 'BE', total\_amount: 0 } ]

demoxyz> db.fees.aggregate([{$group:{\_id:'$class',total\_amount:{$sum:'$amount'}}}])

[

{ \_id: 'BE', total\_amount: 50000 },

{ \_id: 'TE', total\_amount: 85000 }

]

demoxyz> db.fees.aggregate([{$group:{\_id:'$class',total\_amount:{$min:'$amount'}}}])

[

{ \_id: 'TE', total\_amount: 40000 },

{ \_id: 'BE', total\_amount: 50000 }

]

demoxyz> db.fees.aggregate([{$group:{\_id:'$class',total\_amount:{$max:'$amount'}}}])

[

{ \_id: 'BE', total\_amount: 50000 },

{ \_id: 'TE', total\_amount: 45000 }

]

demoxyz> db.fees.aggregate([{$group:{\_id:'$class',total\_amount:{$push:'$amount'}}}])

[

{ \_id: 'TE', total\_amount: [ 45000, 40000 ] },

{ \_id: 'BE', total\_amount: [ 50000 ] }

]

demoxyz> db.fees.insertOne({rollno:104,name:'tushar',class:'TE',amount:45000,pdate:'12-07-2025'});

{

acknowledged: true,

insertedId: ObjectId('68e8d0635c6078ac2dcebea7')

}

demoxyz> db.fees.aggregate([{$group:{\_id:'$class',total\_amount:{$push:'$amount'}}}])

[

{ \_id: 'TE', total\_amount: [ 45000, 40000, 45000 ] },

{ \_id: 'BE', total\_amount: [ 50000 ] }

]

demoxyz> db.fees.aggregate([{$group:{\_id:'$class',total\_amount:{$addToSet:'$amount'}}}])

[

{ \_id: 'BE', total\_amount: [ 50000 ] },

{ \_id: 'TE', total\_amount: [ 45000, 40000 ] }

]

demoxyz> db.fees.aggregate([{$group:{\_id:null,total\_amount:{$first:'$amount'}}}])

[ { \_id: null, total\_amount: 45000 } ]

demoxyz> db.fees.aggregate([{$group:{\_id:null,total\_amount:{$last:'$amount'}}}])

[ { \_id: null, total\_amount: 45000 } ]

demoxyz> db.fees.createIndex({rollno:1})

rollno\_1

demoxyz> db.fees.getIndex();

TypeError: db.fees.getIndex is not a function

demoxyz> db.fees.getIndexes();

[

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

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

]

demoxyz> db.fees.createIndex({name:1,class:1})

name\_1\_class\_1

demoxyz> db.fees.getIndexes();

[

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

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

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

]

demoxyz> db.fees.createIndex({class:1},{spare:true})

class\_1

demoxyz> db.fees.getIndexes();

[

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

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

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

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

]

demoabc>

(To exit, press Ctrl+C again or Ctrl+D or type .exit)

demoabc>