

C:\Program Files\MongoDB\Server\5.0\bin\mongo.exe

MongoDB shell version v5.0.3

connecting to: mongodb://127.0.0.1:27017/?compressors=disabled&gssapiServiceName=mongodb

Implicit session: session { "id" : UUID("9c0a45d8-f7e3-4abc-9331-e61b13c1327d") }

MongoDB server version: 5.0.3

Warning: the "mongo" shell has been superseded by "mongosh",  
which delivers improved usability and compatibility. The "mongo" shell has been deprecated and will be removed in  
an upcoming release.

We recommend you begin using "mongosh".

For installation instructions, see

<https://docs.mongodb.com/mongodb-shell/install/>

The server generated these startup warnings when booting:

2021-10-14T17:59:25.643+05:30: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted

Enable MongoDB's free cloud-based monitoring service, which will then receive and display  
metrics about your deployment (disk utilization, CPU, operation statistics, etc).

The monitoring data will be available on a MongoDB website with a unique URL accessible to you  
and anyone you share the URL with. MongoDB may use this information to make product  
improvements and to suggest MongoDB products and deployment options to you.

To enable free monitoring, run the following command: `db.enableFreeMonitoring()`

To permanently disable this reminder, run the following command: `db.disableFreeMonitoring()`

use prac10;

switched to db prac10

> db.createCollection("Student");

{ "ok" : 1 }

> show collections;

Student

> db.Student.insert({Rollno:1, Name:'Vishal', Subject:'DBMS', Marks:100});

WriteResult({ "nInserted" : 1 })

> db.Student.insert({Rollno:2, Name:'Ashlesha', Subject:'SPOS', Marks:90});

WriteResult({ "nInserted" : 1 })

> db.Student.insert({Rollno:3, Name:'Dhananjay', Subject:'TOC', Marks:95});

WriteResult({ "nInserted" : 1 })

> db.Student.insert({Rollno:4, Name:'Sakshi', Subject:'CNS', Marks:88});

WriteResult({ "nInserted" : 1 })

> db.Student.insert({Rollno:5, Name:'Shubham', Subject:'IOTES', Marks:84});

WriteResult({ "nInserted" : 1 })

> db.Student.insert({Rollno:6, Name:'Prathamesh', Subject:'IOTES', Marks:81});

WriteResult({ "nInserted" : 1 })

> db.Student.find();

{ "\_id" : ObjectId("6168679b8eab3387f016b3a6"), "Rollno" : 1, "Name" : "Vishal", "Subject" : "DBMS", "Marks" : 100 }

{ "\_id" : ObjectId("616867cb8eab3387f016b3a7"), "Rollno" : 2, "Name" : "Ashlesha", "Subject" : "SPOS", "Marks" : 90 }

{ "\_id" : ObjectId("616868148eab3387f016b3a8"), "Rollno" : 3, "Name" : "Dhananjay", "Subject" : "TOC", "Marks" : 95 }

{ "\_id" : ObjectId("616868388eab3387f016b3a9"), "Rollno" : 4, "Name" : "Sakshi", "Subject" : "CNS", "Marks" : 88 }

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```
> db.Student.find();
{ "_id" : ObjectId("6168679b8eab3387f016b3a6"), "Rollno" : 1, "Name" : "Vishal", "Subject" : "DBMS", "Marks" : 100 }
{ "_id" : ObjectId("616867cb8eab3387f016b3a7"), "Rollno" : 2, "Name" : "Ashlesha", "Subject" : "SPOS", "Marks" : 90 }
{ "_id" : ObjectId("616868148eab3387f016b3a8"), "Rollno" : 3, "Name" : "Dhananjay", "Subject" : "TOC", "Marks" : 95 }
{ "_id" : ObjectId("616868388eab3387f016b3a9"), "Rollno" : 4, "Name" : "Sakshi", "Subject" : "CNS", "Marks" : 88 }
{ "_id" : ObjectId("616868648eab3387f016b3aa"), "Rollno" : 5, "Name" : "Shubham", "Subject" : "IOTES", "Marks" : 84 }
{ "_id" : ObjectId("616868f68eab3387f016b3ab"), "Rollno" : 6, "Name" : "Prathamesh", "Subject" : "IOTES", "Marks" : 81 }
> db.Student.find().pretty();
{
  "_id" : ObjectId("6168679b8eab3387f016b3a6"),
  "Rollno" : 1,
  "Name" : "Vishal",
  "Subject" : "DBMS",
  "Marks" : 100
}
{
  "_id" : ObjectId("616867cb8eab3387f016b3a7"),
  "Rollno" : 2,
  "Name" : "Ashlesha",
  "Subject" : "SPOS",
  "Marks" : 90
}
{
  "_id" : ObjectId("616868148eab3387f016b3a8"),
  "Rollno" : 3,
  "Name" : "Dhananjay",
  "Subject" : "TOC",
  "Marks" : 95
}
{
  "_id" : ObjectId("616868388eab3387f016b3a9"),
  "Rollno" : 4,
  "Name" : "Sakshi",
  "Subject" : "CNS",
  "Marks" : 88
}
{
  "_id" : ObjectId("616868648eab3387f016b3aa"),
  "Rollno" : 5,
  "Name" : "Shubham",
  "Subject" : "IOTES",
  "Marks" : 84
}
{
  "_id" : ObjectId("616868f68eab3387f016b3ab"),
  "Rollno" : 6,
  "Name" : "Prathamesh",
  "Subject" : "IOTES",
  "Marks" : 81
}
```

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```
"Marks" : 81
}
> db.Student.aggregate([{$group : {_id : "$Subject", Marks : {$min : "$Marks"}}}]);
{
  "_id" : "TOC", "Marks" : 95 }
{
  "_id" : "DBMS", "Marks" : 100 }
{
  "_id" : "CNS", "Marks" : 88 }
{
  "_id" : "SPOS", "Marks" : 90 }
{
  "_id" : "IOTES", "Marks" : 81 }
> db.Student.aggregate([{$group : {_id : "$Subject", Marks : {$max : "$Marks"}}}]);
{
  "_id" : "TOC", "Marks" : 95 }
{
  "_id" : "DBMS", "Marks" : 100 }
{
  "_id" : "CNS", "Marks" : 88 }
{
  "_id" : "SPOS", "Marks" : 90 }
{
  "_id" : "IOTES", "Marks" : 84 }
> db.Student.aggregate([{$group : {_id : "$Subject", Marks : {$sum : "$Marks"}}}]);
{
  "_id" : "TOC", "Marks" : 95 }
{
  "_id" : "DBMS", "Marks" : 100 }
{
  "_id" : "CNS", "Marks" : 88 }
{
  "_id" : "SPOS", "Marks" : 90 }
{
  "_id" : "IOTES", "Marks" : 165 }
> db.Student.aggregate([{$group : {_id : "$Subject", Marks : {$first : "$Marks"}}}]);
{
  "_id" : "DBMS", "Marks" : 100 }
{
  "_id" : "SPOS", "Marks" : 90 }
{
  "_id" : "IOTES", "Marks" : 84 }
{
  "_id" : "CNS", "Marks" : 88 }
{
  "_id" : "TOC", "Marks" : 95 }
> db.Student.insert({Rollno:7, Name:'Prathamesh', Subject:'IOTES', Marks:81});
WriteResult({ "nInserted" : 1 })
> db.Student.remove({"Rollno" :1});
WriteResult({ "nRemoved" : 1 })
> db.Student.insert({Rollno:7, Name:'Harshada', Subject:'SPOS', Marks:71});
WriteResult({ "nInserted" : 1 })
> db.Student.find().pretty();
{
  "_id" : ObjectId("616867cb8eab3387f016b3a7"),
  "Rollno" : 2,
  "Name" : "Ashlesha",
  "Subject" : "SPOS",
  "Marks" : 90
}
{
  "_id" : ObjectId("616868148eab3387f016b3a8"),
  "Rollno" : 3,
  "Name" : "Dhananjay",
  "Subject" : "TOC",
  "Marks" : 95
}
{
  "_id" : ObjectId("616868388eab3387f016b3a9"),
  "Rollno" : 4,
```

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```
"Marks" : 95
}
{
  "_id" : ObjectId("61686838eab3387f016b3a9"),
  "Rollno" : 4,
  "Name" : "Sakshi",
  "Subject" : "CNS",
  "Marks" : 88
}
{
  "_id" : ObjectId("61686864eab3387f016b3aa"),
  "Rollno" : 5,
  "Name" : "Shubham",
  "Subject" : "IOTES",
  "Marks" : 84
}
{
  "_id" : ObjectId("616868f68eab3387f016b3ab"),
  "Rollno" : 6,
  "Name" : "Prathamesh",
  "Subject" : "IOTES",
  "Marks" : 81
}
{
  "_id" : ObjectId("61686aca8eab3387f016b3ac"),
  "Rollno" : 7,
  "Name" : "Prathamesh",
  "Subject" : "IOTES",
  "Marks" : 81
}
{
  "_id" : ObjectId("61686b6b8eab3387f016b3ad"),
  "Rollno" : 7,
  "Name" : "Harshada",
  "Subject" : "SPOS",
  "Marks" : 71
}
> db.Student.aggregate([{$group : {_id : "$Subject", Marks : {$max : "$Marks"}}}]);
{ "_id" : "TOC", "Marks" : 95 }
{ "_id" : "CNS", "Marks" : 88 }
{ "_id" : "SPOS", "Marks" : 90 }
{ "_id" : "IOTES", "Marks" : 84 }
> db.Student.aggregate([{$group : {_id : "$Subject", Marks : {$first : "$Marks"}}}]);
{ "_id" : "IOTES", "Marks" : 84 }
{ "_id" : "CNS", "Marks" : 88 }
{ "_id" : "SPOS", "Marks" : 90 }
{ "_id" : "TOC", "Marks" : 95 }
> db.Student.insert({Rollno:1, Name:'Vishal', Subject:'DBMS', Marks:100});
WriteResult({ "nInserted" : 1 })
> db.Student.remove({"Name" : "Prathamesh"});
```

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```
{ "_id" : "SPOS", "Marks" : 90 }
{ "_id" : "TOC", "Marks" : 95 }
> db.Student.insert({Rollno:1, Name:'Vishal', Subject:'DBMS', Marks:100});
WriteResult({ "nInserted" : 1 })
> db.Student.remove({"Name" : "Prathamesh"});
WriteResult({ "nRemoved" : 2 })
> db.Student.find().pretty();
{
  "_id" : ObjectId("616867cb8eab3387f016b3a7"),
  "Rollno" : 2,
  "Name" : "Ashlesha",
  "Subject" : "SPOS",
  "Marks" : 90
}
{
  "_id" : ObjectId("616868148eab3387f016b3a8"),
  "Rollno" : 3,
  "Name" : "Dhananjay",
  "Subject" : "TOC",
  "Marks" : 95
}
{
  "_id" : ObjectId("616868388eab3387f016b3a9"),
  "Rollno" : 4,
  "Name" : "Sakshi",
  "Subject" : "CNS",
  "Marks" : 88
}
{
  "_id" : ObjectId("616868648eab3387f016b3aa"),
  "Rollno" : 5,
  "Name" : "Shubham",
  "Subject" : "IOTES",
  "Marks" : 84
}
{
  "_id" : ObjectId("61686b6b8eab3387f016b3ad"),
  "Rollno" : 7,
  "Name" : "Harshada",
  "Subject" : "SPOS",
  "Marks" : 71
}
{
  "_id" : ObjectId("61686bcd8eab3387f016b3ae"),
  "Rollno" : 1,
  "Name" : "Vishal",
  "Subject" : "DBMS",
  "Marks" : 100
}
> db.Student.aggregate([{$group : {_id : "$Subject", Marks : {$first : "$Marks"}}}]);
```

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```
> db.Student.aggregate([{$group : {_id : "$Subject", Marks : {$first : "$Marks"}}}]);
{ "_id" : "TOC", "Marks" : 95 }
{ "_id" : "DBMS", "Marks" : 100 }
{ "_id" : "CNS", "Marks" : 88 }
{ "_id" : "SPOS", "Marks" : 90 }
{ "_id" : "IOTES", "Marks" : 84 }
> db.Student.insert({Rollno:6, Name:'Prathamesh', Subject:'IOTES', Marks:98});
WriteResult({ "nInserted" : 1 })
> db.Student.find().pretty();
{
  "_id" : ObjectId("616867cb8eab3387f016b3a7"),
  "Rollno" : 2,
  "Name" : "Ashlesha",
  "Subject" : "SPOS",
  "Marks" : 90
}
{
  "_id" : ObjectId("616868148eab3387f016b3a8"),
  "Rollno" : 3,
  "Name" : "Dhananjay",
  "Subject" : "TOC",
  "Marks" : 95
}
{
  "_id" : ObjectId("616868388eab3387f016b3a9"),
  "Rollno" : 4,
  "Name" : "Sakshi",
  "Subject" : "CNS",
  "Marks" : 88
}
{
  "_id" : ObjectId("616868648eab3387f016b3aa"),
  "Rollno" : 5,
  "Name" : "Shubham",
  "Subject" : "IOTES",
  "Marks" : 84
}
{
  "_id" : ObjectId("61686b6b8eab3387f016b3ad"),
  "Rollno" : 7,
  "Name" : "Harshada",
  "Subject" : "SPOS",
  "Marks" : 71
}
{
  "_id" : ObjectId("61686bcd8eab3387f016b3ae"),
  "Rollno" : 1,
  "Name" : "Vishal",
  "Subject" : "DBMS",
```

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```
{
  "_id" : ObjectId("61686bcd8eab3387f016b3ae"),
  "Rollno" : 1,
  "Name" : "Vishal",
  "Subject" : "DBMS",
  "Marks" : 100
}

{
  "_id" : ObjectId("61686c7f8eab3387f016b3af"),
  "Rollno" : 6,
  "Name" : "Prathamesh",
  "Subject" : "IOTES",
  "Marks" : 98
}

> db.Student.aggregate([{$group : {_id : "$Subject", Marks : {$first : "$Marks"}}}]);
{ "_id" : "IOTES", "Marks" : 84 }
{ "_id" : "DBMS", "Marks" : 100 }
{ "_id" : "CNS", "Marks" : 88 }
{ "_id" : "SPOS", "Marks" : 90 }
{ "_id" : "TOC", "Marks" : 95 }

> db.Student.aggregate([{$group : {_id : "$Subject", Marks : {$last : "$Marks"}}}]);
{ "_id" : "SPOS", "Marks" : 71 }
{ "_id" : "IOTES", "Marks" : 98 }
{ "_id" : "DBMS", "Marks" : 100 }
{ "_id" : "CNS", "Marks" : 88 }
{ "_id" : "TOC", "Marks" : 95 }

> db.Student.aggregate([{$group : {_id : "$Subject", Marks : {$max : "$Marks"}}}]);
{ "_id" : "SPOS", "Marks" : 90 }
{ "_id" : "IOTES", "Marks" : 98 }
{ "_id" : "DBMS", "Marks" : 100 }
{ "_id" : "CNS", "Marks" : 88 }
{ "_id" : "TOC", "Marks" : 95 }

> db.Student.aggregate([{$group : {_id : "$Subject", Marks : {$min : "$Marks"}}}]);
{ "_id" : "IOTES", "Marks" : 84 }
{ "_id" : "DBMS", "Marks" : 100 }
{ "_id" : "CNS", "Marks" : 88 }
{ "_id" : "SPOS", "Marks" : 71 }
{ "_id" : "TOC", "Marks" : 95 }

> db.Student.aggregate([{$group : {_id : "$Subject", Marks : {$sum : "$Marks"}}}]);
{ "_id" : "IOTES", "Marks" : 182 }
{ "_id" : "DBMS", "Marks" : 100 }
{ "_id" : "CNS", "Marks" : 88 }
{ "_id" : "SPOS", "Marks" : 161 }
{ "_id" : "TOC", "Marks" : 95 }
```

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