

NoSQL Aggregates

Roll No: 18

Smit Joshi | NoSQL | 24/09/2023

[](https://github.com/smit-joshi814)

## Create a collection named "student\_database" and insert 5 records with following document schema:

##### db.createCollection(“student\_database”);

S\_name, S\_roll\_no, NoSQL, Python, OOAD, CCV, DAA, interests:[Array]

### Inserting Records

Enterprise **NoSQL\_Collage**> db.student\_database.insertMany([

{

        S\_name: "Smit Joshi",

        S\_roll\_no: 18,

        NoSQL: 30,

        Python: 50,

        OOAD: 34,

        CCV: 37,

        DAA: 41,

        interests: ["Bloging", "Writing", "Coading"]

    },

    {

        S\_name: "Vijay Joshi",

        S\_roll\_no: 8,

        NoSQL: 34,

        Python: 40,

        OOAD: 24,

        CCV: 27,

        DAA: 31,

        interests: ["Accounting", "Teaching", "Dancing"]

    },

    {

        S\_name: "Tejasvi sharma",

        S\_roll\_no: 1,

        NoSQL: 40,

        Python: 50,

        OOAD: 44,

        CCV: 47,

        DAA: 45,

        interests: ["Reading", "Writing"]

    },

    {

        S\_name: "Hiten Joshi",

        S\_roll\_no: 17,

        NoSQL: 40,

        Python: 40,

        OOAD: 36,

        CCV: 38,

        DAA: 31,

        interests: ["Bloging", "Writing"]

    },

    {

        S\_name: "Hiten Thakkar",

        S\_roll\_no: 48,

        NoSQL: 40,

        Python: 39,

        OOAD: 38,

        CCV: 30,

        DAA: 21,

        interests: ["Travelling", "Reading"]

    }

]);

{

    acknowledged: true,

    insertedIds: {

      '0': ObjectId("65105b7890dff8b1de8b80ba"),

      '1': ObjectId("65105b7890dff8b1de8b80bb"),

      '2': ObjectId("65105b7890dff8b1de8b80bc"),

      '3': ObjectId("65105b7890dff8b1de8b80bd"),

      '4': ObjectId("65105b7890dff8b1de8b80be")

    }

  }

## Based on the above collection, write a mongodb query for the following:

### min

Enterprise NoSQL\_Collage> db.student\_database.aggregate({ $group: { \_id: "", min: { $min: "$NoSQL" } } });

[ { \_id: '', min: 30 } ]

### max

Enterprise **NoSQL\_Collage**>  db.student\_database.aggregate({ $group: { \_id: "", max: { $max: "$NoSQL" } } });

[ { \_id: '', max: 40 } ]

### sum

Enterprise **NoSQL\_Collage**> db.student\_database.aggregate({ $group: { \_id: "", combined\_sum: { $sum: "$CCV" } } });

[ { \_id: '', combined\_sum: 179 } ]

### avg

Enterprise **NoSQL\_Collage**> db.student\_database.aggregate({ $group: { \_id: "", combined\_avg: { $avg: "$CCV" } } });

[ { \_id: '', combined\_avg: 35.8 } ]

### first

 Enterprise **NoSQL\_Collage**> db.student\_database.aggregate({ $group: { \_id: "", first: { $first: "$Python" } } });

[ { \_id: '', first: 50 } ]

### last

Enterprise **NoSQL\_Collage**> db.student\_database.aggregate({ $group: { \_id: "", last: { $last: "$Python" } } });

[ { \_id: '', last: 39 } ]

]

### push

Enterprise **NoSQL\_Collage**> db.student\_database.aggregate({ $group: { \_id: "", all\_Marks: { $push: "$NoSQL" } } });

[ { \_id: '', all\_Marks: [ 30, 34, 40, 40, 40 ] } ]

addToSet

Enterprise **NoSQL\_Collage**> db.student\_database.aggregate({ $group: { \_id: "", all\_Marks: { $addToSet: "$NoSQL" } } });

[ { \_id: '', all\_Marks: [ 30, 40, 34 ] } ]