1. I recommend using relational model because the data have specific size of 1 team and data structure won't change frequently.

2. I recommend using MongoDB because I think we work on data that unstructured or semi-structured data that doesn't fit the relational model and require the flexibility of a dynamic schema or want more choice over the data model.

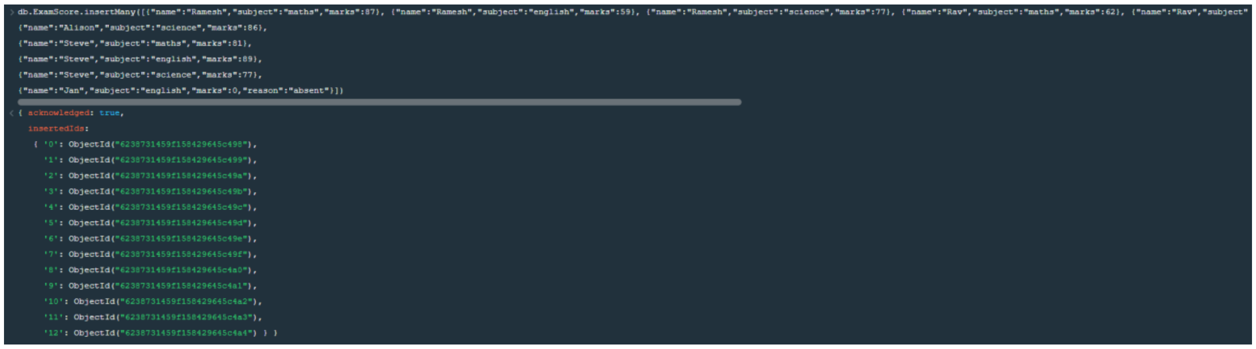
3. I recommend using MongoDB because for what question give, they didn't specify structure, so we require the flexibility of a dynamic schema or want more choice over the data model.

4. Gaming

```
Game
{
        team: {
                team1: {
                        name: string,
                        member: {
                                member1_name: string,
                                member2_name: string,
                                ......
                        },
                        score: int
                },
                team2: {
                        name: string,
                        member: {
                                member1_name: string,
                                member2_name: string,
                                ......
                        },
                        score: int
                },
                .......
        },
        map: string,
        mode: string
}
```

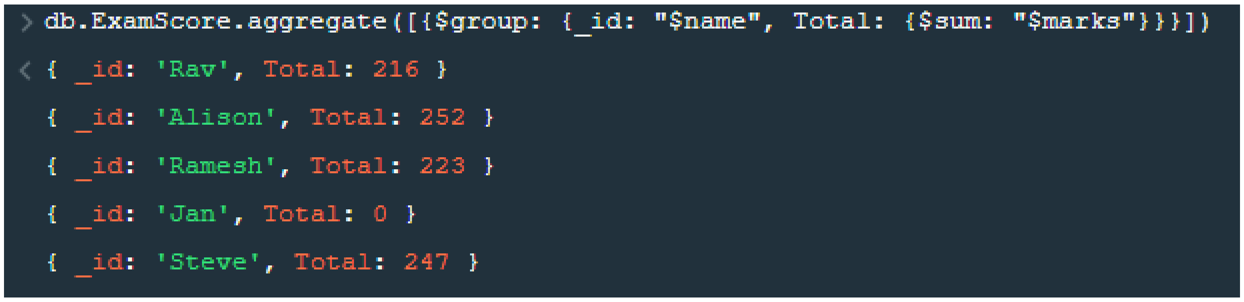
Player
{
    Id: int,
    level: int
    name: string,
    clan: string,
    k/da: float,
    money: int,
}

5. Create MongoDB database with following information



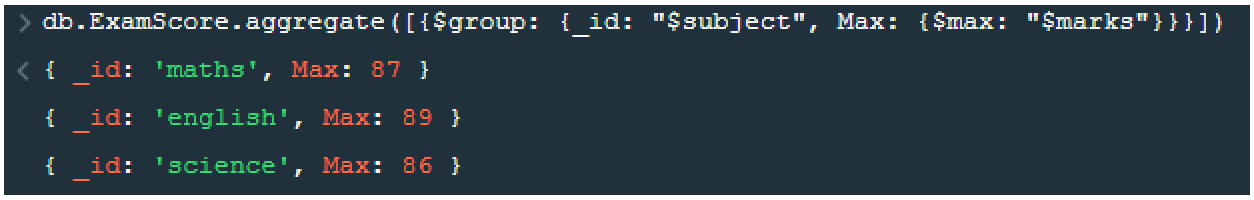
```
> db.ExamScore.insertMany([{"name":"Ramesh","subject":"maths","marks":87}, {"name":"Ramesh","subject":"english","marks":59}, {"name":"Ramesh","subject":"science","marks":77}, {"name":"Rav","subject":"maths","marks":62}, {"name":"Rav","subject"
  {"name":"Alison","subject":"science","marks":86},
  {"name":"Steve","subject":"maths","marks":81},
  {"name":"Steve","subject":"english","marks":89},
  {"name":"Steve","subject":"science","marks":77},
  {"name":"Jan","subject":"english","marks":0,"reason":"absent"}])
< { acknowledged: true,
    insertedIds:
     { '0': ObjectId("6238731459f158429645c498"),
       '1': ObjectId("6238731459f158429645c499"),
       '2': ObjectId("6238731459f158429645c49a"),
       '3': ObjectId("6238731459f158429645c49b"),
       '4': ObjectId("6238731459f158429645c49c"),
       '5': ObjectId("6238731459f158429645c49d"),
       '6': ObjectId("6238731459f158429645c49e"),
       '7': ObjectId("6238731459f158429645c49f"),
       '8': ObjectId("6238731459f158429645c4a0"),
       '9': ObjectId("6238731459f158429645c4a1"),
       '10': ObjectId("6238731459f158429645c4a2"),
       '11': ObjectId("6238731459f158429645c4a3"),
       '12': ObjectId("6238731459f158429645c4a4") } }
```

Find the total marks for each student across all subjects.



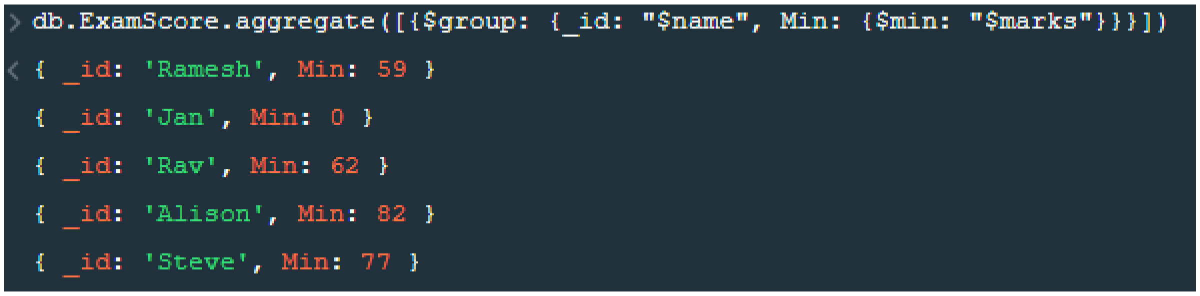
```
> db.ExamScore.aggregate([{$group: {_id: "$name", Total: {$sum: "$marks"}}}])
< { _id: 'Rav', Total: 216 }
  { _id: 'Alison', Total: 252 }
  { _id: 'Ramesh', Total: 223 }
  { _id: 'Jan', Total: 0 }
  { _id: 'Steve', Total: 247 }
```

Find the maximum marks scored in each subject.



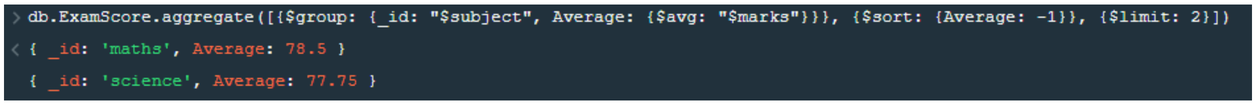
```
> db.ExamScore.aggregate([{$group: {_id: "$subject", Max: {$max: "$marks"}}}])
< { _id: 'maths', Max: 87 }
  { _id: 'english', Max: 89 }
  { _id: 'science', Max: 86 }
```

Find the minimum marks scored by each student.



```
db.ExamScore.aggregate([{$group: {_id: "$name", Min: {$min: "$marks"}}}])
{ _id: 'Ramesh', Min: 59 }
{ _id: 'Jan', Min: 0 }
{ _id: 'Rav', Min: 62 }
{ _id: 'Alison', Min: 82 }
{ _id: 'Steve', Min: 77 }
```

Find the top two subjects based on average marks.



```
db.ExamScore.aggregate([{$group: {_id: "$subject", Average: {$avg: "$marks"}}}, {$sort: {Average: -1}}, {$limit: 2}])
{ _id: 'maths', Average: 78.5 }
{ _id: 'science', Average: 77.75 }
```