- 1. I recommend using MongoDB because I think we work on semi-structured data so MongoDB should be fulfilled data requirement.
- 2. I recommend using MongoDB because I think we work on data that unstructured or semistructured data that doesn't fir the relational model and require the flexibility of a dynamic schema or want more choice over the data model.
- 3. I recommend using relational model because I think for this data we require a high degree of data integrity, and data is highly structured.
- 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.EastCore..amertNopy((finame*)%.Paid)cot*:Teatha*,"marka*(87), (finame*)%.Paid)cot*:Teatha*,"marka*(87), (finame
```

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 }</pre>
```

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 }</pre>
```

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 }</pre>
```

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 }</pre>
```