Workshop

mongoDB

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Data

```
data.json                    ×
1  { "_id" : 1, "domainName" : "test1.com", "hosting" : "hostgator.com" }
2  { "_id" : 2, "domainName" : "test2.com", "hosting" : "aws.amazon.com"}
3  { "_id" : 3, "domainName" : "test3.com", "hosting" : "aws.amazon.com" }
4  { "_id" : 4, "domainName" : "test4.com", "hosting" : "hostgator.com" }
5  { "_id" : 5, "domainName" : "test5.com", "hosting" : "aws.amazon.com" }
6  { "_id" : 6, "domainName" : "test6.com", "hosting" : "cloud.google.com" }
7  { "_id" : 7, "domainName" : "test7.com", "hosting" : "aws.amazon.com" }
8  { "_id" : 8, "domainName" : "test8.com", "hosting" : "hostgator.com" }
9  { "_id" : 9, "domainName" : "test9.com", "hosting" : "cloud.google.com" }
10 { "_id" : 10, "domainName" : "test10.com", "hosting" : "godaddy.com" }
```

Import data

$mongoimport -d **web**

           -c **website**

           --file **website/data.json**

Group by hosting

```
>db.website.aggregate(
    { $group: { _id: "$hosting" } }
)
```

Group by hosting and count

```
db.website.aggregate(
    { $group: {
        _id: "$hosting",
        total: {$sum:1}
      }
    }
)
```

With sorting (descending)

```
db.website.aggregate(
    { $group: {
            _id: "$hosting",
            total: {$sum:1}
        }
    },
    { $sort: { total: -1 } }
)
```

With sorting (ascending)

```
db.website.aggregate(
    { $group: {
            _id: "$hosting",
            total: {$sum:1}
        }
    },
    { $sort: { total: 1 } }
)
```

Filter data in aggregation ?

```
db.website.aggregate(
    { $group: {
            _id: "$hosting",
            total: {$sum:1}
        }
    },
    { $sort: { total: 1 } }
)
```

Export result to files

1. Query data

2. Save data to new collection

3. Export data with **mongoexport**

Export data to JSON

$mongoexport -d **web**

                -c **my_data**

                -f **_id,total**

                -o **group.json**

Export data to CSV

```
$mongoexport -d web
             -c my_data
             -f _id,total
             -o group.csv
             --csv
```

Resources

https://github.com/up1/course-introduction-mongodb