

+ CREATE NEW

EXPORT TO ENVIRONMENT

```
1 ▾ [  
2 ▾ {  
3 ▾   $match: {  
4     isActive: true,  
5   },  
6 },  
7 ▾ {  
8   $count: "activeUsers",  
9 },  
10 ]
```

## PIPELINE OUTPUT

Sample of 1 document

OUTPUT OPTIONS ▾

activeUsers: 516

Find

Indexes

Schema Anti-Patterns 0

Aggregation

Search indexes

Pipeline



\$group

+ CREATE NEW

</> EXPORT TO LANGUAGE

PREVIEW

{ } STAGES

</> TEXT



```
1 [
2   {
3     $group: {
4       _id: null,
5       averageAge: {
6         $avg: "$age"
7       }
8     }
9   }
10 ]
```

### PIPELINE OUTPUT

Sample of 1 document

OUTPUT OPTIONS

```
_id: null
averageAge: 29.835
```

STORAGE SIZE: 4KB LOGICAL DATA SIZE: 376.02KB TOTAL DOCUMENTS: 1000 INDEXES TOTAL SIZE: 4KB

Find Indexes Schema Anti-Patterns 0 Aggregation Search Indexes

Pipeline

\$group

\$sort

\$limit

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PREVIEW

{ } STAGES

</> TEXT



```
1 {
2   {
3     $group: {
4       _id: "$favoriteFruit",
5       count: {
6         $sum: 1
7       }
8     },
9   },
10  {
11    $sort: {
12      count: -1
13    }
14  },
15  {
16    $limit: 5
17  }
18 }
```

## PIPELINE OUTPUT

Sample of 3 documents

OUTPUT OPTIONS

\_id: "banana"  
count: 339

\_id: "apple"  
count: 338

\_id: "strawberry"  
count: 323

Find

Indexes

Schema Anti-Patterns 0

Aggregation

Search Indexes

Pipeline



\$group

+ CREATE NEW

</> EXPORT TO LANGUAGE

PREVIEW

{ } STAGES

</> TEXT



```
1 [
2   {
3     $group: {
4       _id: "$gender",
5       count: {
6         $sum: 1
7       }
8     }
9   }
10 ]
```



PIPELINE OUTPUT

Sample of 2 documents

OUTPUT OPTIONS

```
_id: "female"
count: 507
```

```
_id: "male"
count: 493
```

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PREVIEW

{ } STAGES

</> TEXT

```
1  [
2    {
3      $group: {
4        _id: "$company.location.country",
5        userCount: {
6          $sum: 1
7        }
8      }
9    },
10   {
11     $sort: {
12       userCount: -1
13     }
14   },
15   {$limit: 2}
16 ]
```

## PIPELINE OUTPUT

Sample of 2 documents

OUTPUT OPTIONS

```
_id: "Germany"
userCount: 261
```

```
_id: "USA"
userCount: 255
```

Pipeline

PREVIEW

STAGES

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EXPORT TO LANGUAGE

OUTPUT OPTIONS

### PIPELINE OUTPUT

Sample of 1 document

```
_id: null
averageNumberOfTags: 3.556
```

```
1 [
2   {
3     $unwind: "$tags"
4   },
5   {
6     $group: {
7       _id: "$_id",
8       numberOfTags: {$sum: 1}
9     }
10  },
11  {
12    $group: {
13      _id: null,
14      averageNumberOfTags: {$avg: "$numberOfTags"}
15    }
16  }
17 ]
```

Pipeline 

\$addFields

\$group

+ CREATE NEW

</> EXPORT TO LANGUAGE

 PREVIEW

{ } STAGES

</> TEXT



```
1  [
2    {
3      $addFields: {
4        numberOfTags: {
5          $size: { $ifNull: ["$tags", []] }
6        }
7      },
8    },
9    {
10     $group: {
11       _id: null,
12       averageNumberOfTags: { $avg: "$numberOfTags" }
13     }
14   }
15 ]
```

## PIPELINE OUTPUT

Sample of 1 document

OUTPUT OPTIONS 

```
_id: null
averageNumberOfTags: 3.556
```

+ CREATE NEW

</> EXPORT TO LANGUAGE

PREVIEW

{ } STAGES

</> TEXT



```
1  [
2  {
3    $match: {
4      tags: "id"
5    }
6  },
7  {
8    $count: 'userWithEnimTag'
9  }
10 ]
```



### PIPELINE OUTPUT

Sample of 1 document

OUTPUT OPTIONS ▾

userWithEnimTag: 46



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EXPORT TO LANGUAGE

PREVIEW

STAGES

TEXT



```
1 [
2   {
3     $match: {
4       isActive: false,
5       tags: "velit",
6     },
7   },
8   {
9     $project: {
10      name: 1,
11      age: 1,
12    },
13  },
14 ]
```

## PIPELINE OUTPUT

OUTPUT OPTIONS

Sample of 10 documents

```
name: "Aurelia Gonzales"
age: 20
_id: ObjectId('657b50b1df6f5ef673b80e9c')
```

```
age: 21
_id: ObjectId('657b50b1df6f5ef673b80eba')
name: "Hahn Pope"
```

```
_id: ObjectId('657b50b1df6f5ef673b80ec9')
name: "Milagros Leav"
```

Find

Indexes

Schema Anti-Patterns 0

Aggregation

Pipeline



\$match

\$count

+ CREATE NEW

EXPORT TO LANGUAGE

PREVIEW

STAGES

TEXT



```
1 [
2   {
3     $match: {
4       "company.phone": /^\\+1 \\(940\\)/
5     }
6   },
7   {
8     $count: 'userswithSpecialPhoneNumber'
9   }
10 ]
```



PIPELINE OUTPUT

Sample of 1 document

OUTPUT OPTIONS

userswithSpecialPhoneNumber: 5

```
1 ▼ [
2 ▼   {
3 ▼     $sort: {
4       registered: -1
5     }
6   },
7   {$limit: 4},
8   {
9     $project: {
10       name: 1,
11       registered: 1,
12       favoriteFruit: 1
13     }
14   }
15 ]
```



```
1 ▼ [
2 ▼ {
3 ▼   $group: {
4     _id: "$favoriteFruit",
5     users: { $push: "$name" }
6   }
7 }
8 ]
```



Pipeline

\$match

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</> EXPORT TO LANGUAGE

PREVIEW

{ } STAGES

</> TEXT



```
1 [
2   {
3     $match: {
4       "tags.1": "ad",
5     },
6   },
7 ]
```

## PIPELINE OUTPUT

Sample of 10 documents

OUTPUT OPTIONS

```
eyeColor: "green"
company: Object
index: 2
name: "Hays Wise"
isActive: false
registered: 2015-02-23T10:22:15.000+00:00
age: 24
_id: ObjectId('657b50b1df6f5ef673b80e9e')
gender: "male"
favoriteFruit: "strawberry"
tags: Array (4)
```

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PREVIEW

STAGES

</> TEXT



```
1 ▾ [  
2 ▾  {  
3 ▾    $match: {  
4 ▾      tags: {  
5        $all: ["enim", "id"],  
6      },  
7    },  
8  },  
9  ]
```

#### PIPELINE OUTPUT

Sample of 5 documents

OUTPUT OPTIONS ▾

```
eyeColor: "green"  
favoriteFruit: "banana"  
▸ company: Object  
▸ tags: Array (5)  
index: 0  
isActive: false  
gender: "female"  
age: 20  
_id: ObjectId('657b50b1df6f5ef673b80e9c')  
name: "Aurelia Gonzales"  
registered: 2015-02-11T04:22:39.000+00:00
```

Pipeline

\$match

\$group

+ CREATE NEW

</> EXPORT TO LANGUAGE

PREVIEW

{ } STAGES

</> TEXT



```
1 [
2   {
3     $match: {
4       "company.location.country": "USA"
5     }
6   },
7   {
8     $group: {
9       _id: "$company.title",
10      userCount: {$sum: 1}
11    }
12  }
13 ]
```

## PIPELINE OUTPUT

Sample of 10 documents

OUTPUT OPTIONS

```
userCount: 1
_id: "VERTON"
```

```
userCount: 1
_id: "BLEEKO"
```

```
userCount: 1
_id: "MENBRAIN"
```



+ CREATE NEW

</> EXPORT TO LANGUAGE

PREVIEW

{ } STA

```
1  [
2    {
3      $lookup: {
4        from: "authors",
5        localField: "author_id",
6        foreignField: "_id",
7        as: "author_details"
8      }
9    },
10   {
11     $addFields: {
12       author_details: {
13         $first: "$author_details"
14       }
15     }
16   }
17 ]
```

## PIPELINE OUTPUT

Sample of 3 documents

```
genre: "Classic"
author_details: Object
  _id: 100
  name: "F. Scott Fitzgerald"
  birth_year: 1896
_id: 1
title: "The Great Gatsby"
author_id: 100
```

```
title: "Nineteen Eighty-Four"
author_id: 101
```



Pipeline



\$lookup

\$addFields

+ CREATE NEW

&lt;/&gt; EXPORT TO LANGUAGE

PREVIEW

{ } STAGES

```
1 [
2   {
3     $lookup: {
4       from: "authors",
5       localField: "author_id",
6       foreignField: "_id",
7       as: "author_details"
8     }
9   },
10  {
11    $addFields: {
12      author_details: {
13        $arrayElemAt: ["$author_details", 0]
14      }
15    }
16  }
17 ]
```

## PIPELINE OUTPUT

Sample of 3 documents

OUTPUT

```
author_id: 100
genre: "Classic"
author_details: Object
_id: 1
title: "The Great Gatsby"
```

```
author_id: 101
genre: "Dystopian"
author_details: Object
_id: 2
title: "Nineteen Eighty-Four"
```

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@tarunbidaliya9438 4 months ago

Some additional tips

- 1) Always think TWICE when you are using operators like "\$unwind" because it is very costly operator because it creates multiple copies of a same documents. Try to think some other possible solution. Some costly operators are: "\$lookup", "\$unwind", "\$facet", etc.
- 2) It is a best practice to use \$project after the \$group stage in the pipeline because "by default, mongodb return a BSON object and not a JSON object" and BSON object have more properties than a JSON object. So using the \$project, you can get the JSON object You can study this point for more knowledge.
- 3) If the size of your document is big, then always use ".allowDiscUse(true)" in your aggregation pipeline.
- 4) When dealing with larger chunks of data, use "cursor" and "batchSize" approach.

Show less



20



Reply

0 replies