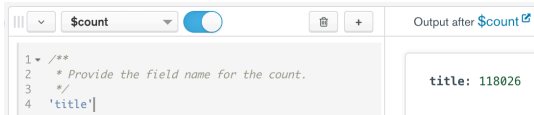


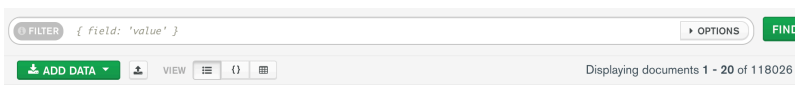
MONGODB COMPASS

1) Vérifier le nombre de documents importés.

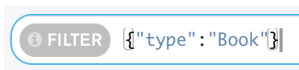


2) Prévisualiser les 20 premiers documents.

Se fait par défaut sur MongoDB Compass



3) Lister tous les livres (type 'Book').



4) Lister les publications depuis 2011.



5) Lister toutes les publications de 2011 et 2013.



6) Lister toutes les publications de 2011 ou 2013.



7) Lister les publications ayant 3 auteurs.

FILTER	<code>{ "authors": { \$size: 3 } }</code>
PROJECT	<code>{ field: 0 }</code>
SORT	<code>{ field: -1 } or [['field', -1]]</code>
COLLATION	<code>{ locale: 'simple' }</code>

8) Lister les livres publiés depuis 2014.

FILTER	<code>{ "type": "Book", "year": { "\$gte": 2014 } }</code>
PROJECT	<code>{ "title": 1, "authors": 1, "type": 1, "year": 1 }</code>
SORT	<code>{ "year": 1, "title": 1 }</code>
COLLATION	<code>{ locale: 'simple' }</code>

9) Lister les publications de l'auteur "Toru Ishida".

FILTER	<code>{ "authors": "Toru Ishida" }</code>
PROJECT	<code>{ "title": 1, "authors": 1, "year": 1 }</code>
SORT	<code>{ "year": 1, "title": 1 }</code>
COLLATION	<code>{ locale: 'simple' }</code>

10) Lister tous les éditeurs (type 'publisher') distincts.

<div><div>▼ \$group</div><div>Output after \$group stage (Sample of 1 document)</div></div> <pre>1 /** 2 * _id: The id of the group. 3 * fieldN: The first field name. 4 */ 5 { 6 _id: null, 7 publishers: { \$addToSet: "\$publisher" } 8 }</pre>	<div>▼ publishers: Array</div> <ul style="list-style-type: none">0: "Morgan & Claypool Publishers"1: "Kluwer"2: "USENIX Association"3: "Atlantis Press"4: "Hermann-?ditions"5: "C7padu7s-?ditions"6: "IOS Press"7: "Springer"
---	--

11) Lister tous les auteurs distincts.

<div><div>▼ Sunwind</div><div>Output after Sunwind stage (Sample of 10 documents)</div></div> <pre>1 /** 2 * path: Path to the array field. 3 * includeArrayIndex: Optional name for index. 4 * preserveNullAndEmptyArrays: Optional 5 * toggle to unwind null and empty values. 6 */ 7 { 8 path: "\$authors", 9 preserveNullAndEmptyArrays: true 10 }</pre>	<div>▼ _id: "series/cogtech/Zancanaro12"</div> <div>type: "Article"</div> <div>title: "Shared Interfaces for Co-located Interaction."</div> <div>> pages: Object</div> <div>year: 2012</div> <div>booktitle: "Ubiquitous Display Environments"</div>
<div><div>▼ \$group</div><div>Output after \$group stage (Sample of 1 document)</div></div> <pre>1 /** 2 * _id: The id of the group. 3 * fieldN: The first field name. 4 */ 5 { 6 _id: null, 7 authors: { \$addToSet: "\$authors" } 8 }</pre>	<div>▼ _id: null</div> <div>▼ authors: Array</div> <ul style="list-style-type: none">0: "A. Pechstein"1: "Frank Schreiber"2: "Kumud Bhandari"3: "Rosemary Luckin"4: "Jan Ramon"5: "Tanja Falkowski"

12) Trier les publications de 'Toru Ishida' par titre de livre et par page de début.

FILTER	<code>{ "authors": "Toru Ishida" }</code>	FILTER	<code>{ "authors": "Toru Ishida" }</code>
PROJECT	<code>{ field: 0 }</code>	PROJECT	<code>{ field: 0 }</code>
SORT	<code>{ "title": 1 }</code>	SORT	<code>{ "pages.start": 1 }</code>
COLLATION	<code>{ locale: 'simple' }</code>	COLLATION	<code>{ locale: 'simple' }</code>

13) Compter le nombre de ses publications.

Interface for the \$match stage:

```
1 * query: The query in MQL.
2 */
3 {
4   authors: "Toru Ishido"
5 }
6 }
```

Output after \$match stage (Sample of 10 documents):

```
{
  "_id": "series/cogtech/SuoS111",
  "type": "Article",
  "title": "Integrating Smart Classroom and Language Services.",
  "pages": {
    "year": 2011,
    "booktitle": "The Language Grid",
    "url": "db/series/cogtech/364221177.html#Suo"
  }
}
```

Interface for the \$count stage:

```
1 * Provide the field name for the count.
2 */
3 {
4   'booktitle'
5 }
6 }
```

Output after \$count stage (Sample of 1 document):

```
{
  "booktitle": 22
}
```

14) Compter le nombre de publications depuis 2011 et par type.

Interface for the \$match stage:

```
1 * query: The query in MQL.
2 */
3 {
4   {
5     year: {$gte: 2011}
6   }
7 }
8 }
```

Output after \$match stage (Sample of 10 documents):

```
{
  "_id": "series/cogtech/Zancanaro12",
  "type": "Article",
  "title": "Shared Interfaces for Co-located Interaction.",
  "pages": {
    "year": 2012,
    "booktitle": "Ubiquitous Display Environments"
  }
}
```

Interface for the \$group stage:

```
1 * _id: The id of the group.
2 * fieldN: The first field name.
3 */
4 {
5   {
6     _id: "$type",
7     nb: {$sum: 1}
8   }
9 }
10 }
```

Output after \$group stage (Sample of 3 documents):

```
{
  "_id": "Article",
  "nb": 27206
}
```

15) Compter le nombre de publications par auteur et trier le résultat par ordre croissant.

Interface for the \$unwind stage:

```
1 * path: Path to the array field.
2 * includeArrayIndex: Optional name for index.
3 * preserveNullAndEmptyArrays: Optional toggle to unwind null and empty values.
4 */
5 {
6   path: "$authors",
7   preserveNullAndEmptyArrays: true
8 }
9 }
```

Output after \$unwind stage (Sample of 10 documents):

```
{
  "_id": "series/cogtech/Zancanaro12",
  "type": "Article",
  "title": "Shared Interfaces for Co-located Interaction.",
  "pages": {
    "year": 2012,
    "booktitle": "Ubiquitous Display Environments"
  }
}
```

Interface for the \$group stage:

```
1 * _id: The id of the group.
2 * fieldN: The first field name.
3 */
4 {
5   {
6     _id: "$authors",
7     nb: {$sum: 1}
8   }
9 }
10 }
```

Output after \$group stage (Sample of 10 documents):

```
{
  "_id": "P. J. A. van Tilburg",
  "nb": 1
}
```

Interface for the \$sort stage:

```
1 * Provide any number of field/order pairs.
2 */
3 {
4   {
5     nb: 1
6   }
7 }
8 }
```

Output after \$sort stage (Sample of 10 documents):

```
{
  "_id": "Arzu Sencan Sahin",
  "nb": 1
}
```