

week-10-class-01-lab.ipynb ×

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+ Code + Markdown | ▶ Run All | Clear Outputs of All Cells | Outline ...

Python 3.8.5 32-bit

Lab Exercises

Exercise 1

In the 'sample_training' database, look through the 'companies' collection and show the name, month, day, and year of all the companies that were founded in 2005. Sort by name, ascending. Paste the filter, project, and sort queries.

sample_training.companies

COLLECTION SIZE: 34.79KB | TOTAL DOCUMENTS: 9000 | INDEXES TOTAL SIZE: 139KB

Find | Indexes | Schema Anti-Patterns | Aggregation | Search Indexes

INSERT DOCUMENT

FILTER

`{ "founded_year": 2005 }`

PROJECT

`{ "name": 1, "founded_month": 1, "founded_day": 1, "founded_year": 1 }`

SORT

`{ "name": 1 }`

COLLATION

`{ locale: 'simple' }`

OPTIONS

Apply

Reset

QUERY RESULTS 1-20 OF MANY

`_id: ObjectId("5d5cf70a898b071294f8f")`

`name: "247chipsupport"`

`founded_year: 2005`

`founded_month: 3`

`founded_day: 14`

`_id: ObjectId("5d5cf70a898b071294f91")`

`name: "508concepts"`

`founded_year: 2005`

`founded_month: null`

`founded_day: null`

`_id: ObjectId("5d5cf70a898b071294f93")`

`name: "79a3.com"`

`founded_year: 2005`

`founded_month: 12`

`founded_day: 20`

Exercise 2

I used to go to a restaurant in Brooklyn that had Chinese cuisine. It has the word "Noodles" in its name and a number. What's the number?

INSERT DOCUMENT

FILTER

`{ "borough": "Brooklyn", "cuisine": "Chinese", "name": { "$regex": "Noodles" } }`

PROJECT

`{ "name": 1 }`

SORT

`{ field: -1 }`

COLLATION

`{ locale: 'simple' }`

OPTIONS

Apply

Reset

QUERY RESULTS 1-1 OF 1

`_id: ObjectId("5eb3d668b31de5d588f448d9")`

`name: "86 Noodles"`

Exercise 3

I want an airbnb that has 6 bedrooms, 6 beds, and "no smoking" in its house rules. What's the listing_url of that airbnb?

INSERT DOCUMENT

FILTER

```
{ "bedrooms" : 6, "beds" : 6, "house_rules" : { "$regex": "no smoking" } }
```

▼ OPTIONS

Apply

Reset

PROJECT

```
{ "listing_url": 1 }
```

SORT

```
{ field: -1 }
```

COLLATION

```
{ locale: 'simple' }
```

QUERY RESULTS 1-1 OF 1

```
_id: "17301277"
listing_url: "https://www.airbnb.com/rooms/17301277"
```

Exercise 4

+ Code + Markdown

In the sample_training database, look through the 'zips' collection. Which zip code has the highest population?

INSERT DOCUMENT

FILTER

```
{ field: 'value' }
```

▼ OPTIONS

Apply

Reset

PROJECT

```
{ field: 0 }
```

SORT

```
{ "pop" : -1 }
```

COLLATION

```
{ locale: 'simple' }
```

The provided sort parameters were invalid. Check your query and try again.

QUERY RESULTS 1-20 OF MANY

```
_id: ObjectId("5c8eccc1caa187d17ca7044d")
city: "CHICAGO"
zip: "60623"
> loc: Object
  pop: 112047
  state: "IL"
```

Exercise 5 (Challenge)

[+ Code](#)[+ Markdown](#)

I remember seeing a poster for a 'SpongeBob' movie that had multiple SpongeBob characters. Look through the 'movies' collection in the 'sample_mflix' database and name all the characters in that poster.

FILTER	<code>{"title":{"regex":"SpongeBob"}}</code>	▼ OPTIONS	Apply	Reset
PROJECT	<code>{"cast":1}</code>			
SORT	<code>{ field: -1 }</code>			
COLLATION	<code>{ locale: 'simple' }</code>			

QUERY RESULTS 1-2 OF 2

```
  _id: ObjectId("573a13abf29313caabd25e48")
  cast: Array
    0: "Tom Kenny"
    1: "Clancy Brown"
    2: "Rodger Bumpass"
    3: "Bill Fagerbakke"
```

```
  _id: ObjectId("573a13daf29313caabdab4be")
  cast: Array
    0: "Antonio Banderas"
    1: "Eric Bauza"
    2: "Tim Conway"
    3: "Eddie Deezen"
```