



Elk2021 LOCAL

Manage

AppDevCentral CAPELLA

Connect a Cluster

CAPELLA

OTHER CLUSTERS

endpoint

bucket

username

password

connection display name

*optional

Connect

save connection string

DONT save password

No Couchbase Cluster to Connect To? No Problem...

Lorem ipsum dolor sit amet, adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud.

Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint t non proident, sunt in culpa qui officia deserunt mollit anima.

Get Couchbase Capella

Download Couchbase Server



Import & Manage Data Sources



Install/Uninstall Sample Buckets on Connected Clusters

- travel-sample
- beer-sample
- gamesim-sample

+ Add

Drop

Import Other Data Sources

tip: first **make a place** to put it!

browse for data files (.csv, etc.)

Browse...

QUERIES +

RECENT QUERIES 0/0

1 FROM

2

3

4

5

6

7

8

9

10

11

We can't detect any data on this cluster. You can set up data sources on the left. Make sure any cluster you connect to has the Query Service running on at least one node, or the Developer Workbench cannot communicate with it.

+ centers to execute query

parameters & funcs

Run as TX

format query

Copy Python | v

Share Query/Results

collections Collections contain documents. Collections also provide a protected namespace for document names and a convenient way to organize access for users and applications. Data is independently replicated per collection.

scopes Scopes contain one or more collections and provide a protected namespace for collection names and access rights for users and applications.

buckets Like the RDBMS database, Couchbase buckets have defined access and access. Buckets contain scopes and collections.

cluster An instance of Couchbase which may span multiple physical server nodes (it's a cluster of nodes) contain one or more buckets.

search field names...

travel-sample.inventory	3 collections
> travel-sample.inventory.airline	917 docs
> travel-sample.inventory.airport	85,097 docs
> travel-sample.inventory.hotel	11,678 docs
travel-sample.scope_x	3 collections
> travel-sample.scope_x.project1	17 docs
> travel-sample.scope_x.project2	97 docs

QUERIES +

1 FROM `travel-sample` . choose... . choose...
 2 |
 3
 4
 5
 6
 7
 8
 9
 10
 11

; + <enter> to execute query

< RECENT QUERIES 0/14 >

parameters & funcs Run as TX format query [Copy Python](#) | [Share Query/Results](#)

?

[BASICS](#) [N1QL STARTER](#) [N1QL CHEATSHEET](#)

Couch-Basics

TERMS

docs < collection < scope < bucket < cluster
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Manage Buckets, Scopes, & Collections

- bucket: travel-sample
 - inventory 5 collections
 - airline 917 docs
 - airport 85,097 docs
 - hotel 11,678 docs
 - scope_x 3 collections
 - project1 17 docs
 - project2 97 docs
 - project3 678 docs

+ Add Sibling **Delete** **Flush**

QUERIES + RECENT QUERIES 0/14

```

1 FROM `travel-sample`.choose v .choose v
2 |
3
4
5
6
7
8
9
10
11

```

parameters & funcs Run as TX format query **Copy Python** | **Share Query/Results**

BASICS **N1QL STARTER** **N1QL CHEATSHEET**

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bucket.scope.collection
travel-sample.*.* ✕

travel-sample.*.*

travel-sample.inventory.*

travel-sample.inventory.airline

travel-sample.inventory.airport

travel-sample.inventory.hotel

travel-sample.hackathon.*

travel-sample.hackathon.project1

travel-sample.hackathon.project2

travel-sample.hackathon.project3

other_bucket.*.*

other_bucket.internal.*

other_bucket.internal.sam

other_bucket.internal.dave

Recent

travel-sample.inventory.airport

travel-sample.inventory.hotel

QUERIES +

RECENT QUERIES 0/14

```

1 FROM `travel-sample` . choose v . choose v
2 |
3
4
5
6
7
8
9
10
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+ centers to execute query

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QUERIES +

1 FROM `travel-sample`.`inventory`.

2 |

3

4

5

6

7

8

9

10

11

; + <enter> to execute query

< RECENT QUERIES 0/14 >

parameters & funcs Run as TX format query [Copy Python](#) | [Share Query/Results](#)

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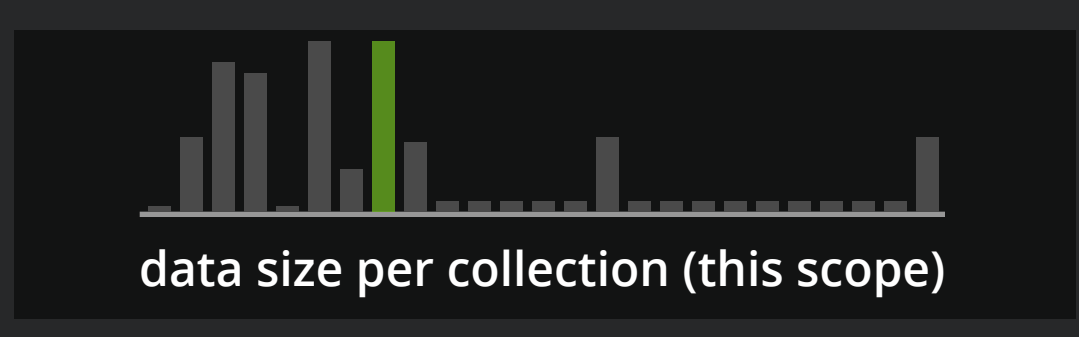
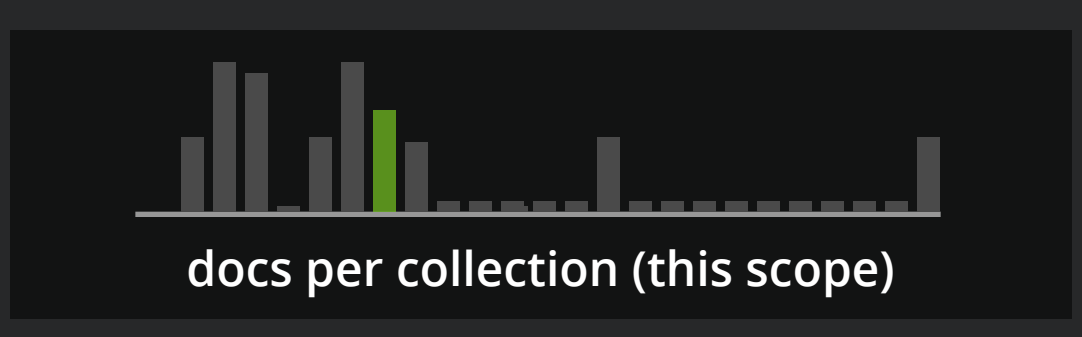
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- > **travel-sample.inventory.airport** 85,097 docs



type = airport 80% of 1,000 docs sampled

address (null,string)	✓ indexed field
alias (null,string)	
geo (object)	
accuracy (string)	
lat (num)	
lon (num)	
id (num)	
name (string)	
pets_ok (bool)	
phone (null,string)	

DOCUMENTS < **airport_1254** >

```
{
  "airportname": "Calais Dunkerque",
  "city": "Calais",
  "country": "France",
  "faa": "CQF",
  "geo": {
    "alt": 12,
    "lat": 50.962097,
    "lon": 1.954764
  },
  "icao": "LFAC",
  "id": 1254,
  "type": "airport",
  "tz": "Europe/Paris"
}
```

- > INDEXES N1QL 7 Search 3
- > **QUERIES**
- > travel-sample.inventory.hotel 11,678 docs

QUERIES + < RECENT QUERIES 0/14 >

```
1 FROM `travel-sample`.`inventory`.`airport`
2 |
3
4
5
6
7
8
9
10
11
```

; + <enter> to execute query

parameters & funcs Run as TX format query **Copy Python** | **Share Query/Results**

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Couch-Basics

TERMS

docs < *collection* < *scope* < *bucket* < *cluster*

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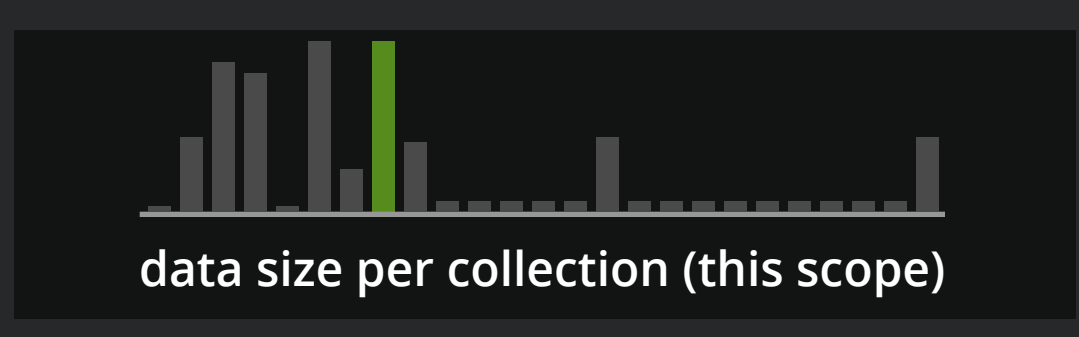
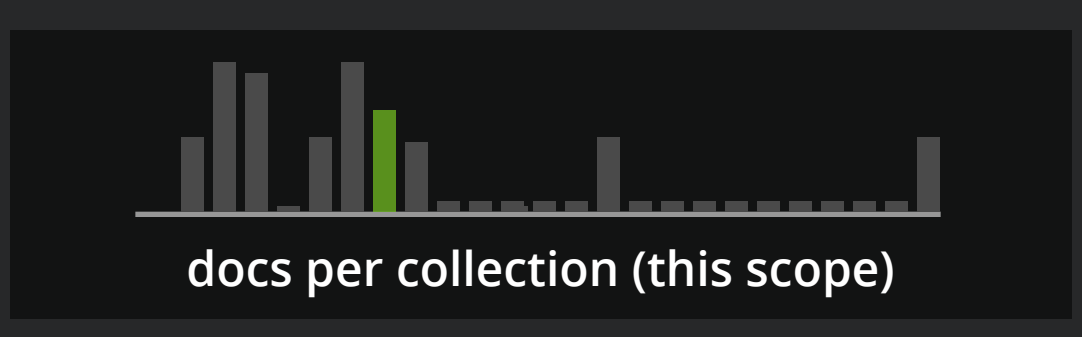
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alias (null,string)

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lat (num)

lon (num)

id (num)

name (string)

pets_ok (bool)

phone (null,string)

> DOCUMENTS < airport_1254 >

```
{
  "airportname": "Calais Dunkerque",
  "city": "Calais",
  "country": "France",
  "faa": "CQF",
  "geo": {
    "alt": 12,
    "lat": 50.962097,
    "lon": 1.954764
  },
  "icao": "LFAC",
  "id": 1254,
  "type": "airport",
  "tz": "Europe/Paris"
}
```

- > INDEXES N1QL 7 Search 3 ⚡ Advice
- > QUERIES ↕
- > travel-sample.inventory.hotel 11,678 docs

QUERIES + RECENT QUERIES 0/14

```
1 FROM `travel-sample`.`inventory`.`airport`
.....
2 SELECT meta().id order by meta().id limit 10000;
```

; + <enter> to execute query

parameters & funcs Run as TX format query Copy Python | Share Query/Results

execution time 19ms items 1,439 size 140KiB Query Plan ⚡ Index/Query Advice

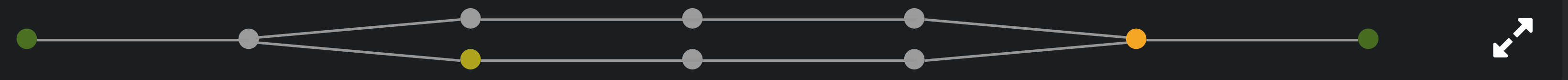


TABLE JSON CHARTS Edit Fields

id	Document
airport_1254	{ "id":1254,"type":"airport","airportname":"CalaisDunkerque","city":"Calais","country":"France", "faa":"CQF","icao":"LFAC","tz":"Europe/Paris","geo":{"lat":50.962097,"lon":1.954764,"alt":12.0}}
airport_1255	{ "id":1254,"type":"airport","airportname":"CalaisDunkerque","city":"Calais","country":"France", "faa":"CQF","icao":"LFAC","tz":"Europe/Paris","geo":{"lat":50.962097,"lon":1.954764,"alt":12.0}}
airport_1256	{ "id":1254,"type":"airport","airportname":"CalaisDunkerque","city":"Calais","country":"France", "faa":"CQF","icao":"LFAC","tz":"Europe/Paris","geo":{"lat":50.962097,"lon":1.954764,"alt":12.0}}
airport_1257	{ "id":1254,"type":"airport","airportname":"CalaisDunkerque","city":"Calais","country":"France", "faa":"CQF","icao":"LFAC","tz":"Europe/Paris","geo":{"lat":50.962097,"lon":1.954764,"alt":12.0}}
airport_1258	{ "id":1254,"type":"airport","airportname":"CalaisDunkerque","city":"Calais","country":"France", "faa":"CQF","icao":"LFAC","tz":"Europe/Paris","geo":{"lat":50.962097,"lon":1.954764,"alt":12.0}}
airport_1259	{ "id":1254,"type":"airport","airportname":"CalaisDunkerque","city":"Calais","country":"France", "faa":"CQF","icao":"LFAC","tz":"Europe/Paris","geo":{"lat":50.962097,"lon":1.954764,"alt":12.0}}
airport_1255	{ "id":1254,"type":"airport","airportname":"CalaisDunkerque","city":"Calais","country":"France", "faa":"CQF","icao":"LFAC","tz":"Europe/Paris","geo":{"lat":50.962097,"lon":1.954764,"alt":12.0}}
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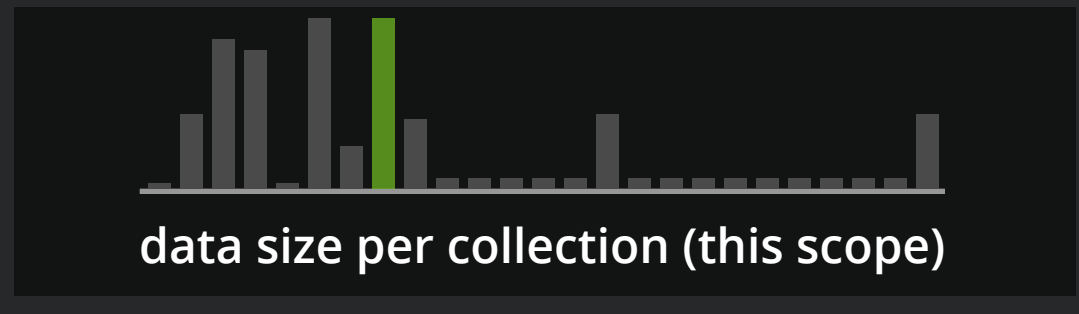
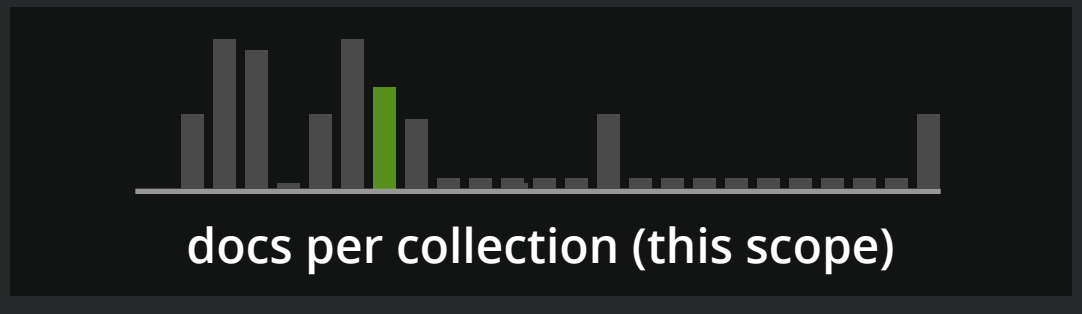
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type = airport 80% of 1,000 docs sampled

address (null,string) ✓ indexed field

alias (null,string)

geo (object)

accuracy (string)

lat (num) [copy icon] [share icon] [arrow icon]

lon (num)

id (num)

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< **airport_1254** >

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  "type": "airport",
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```

- > INDEXES N1QL 7 Search 3 [Advice icon]
- > QUERIES

> travel-sample.inventory.hotel 11,678 docs

QUERIES + RECENT QUERIES 0/14

```
1 FROM `travel-sample`.`inventory`.`airport`
...
2 SELECT meta().id order by meta().id limit 10000;
```

; + <enter> to execute query

parameters & funcs Run as TX format query Copy Python | Share Query/Results

execution time 19ms items 1,439 size 140KiB Query Plan Index/Query Advice

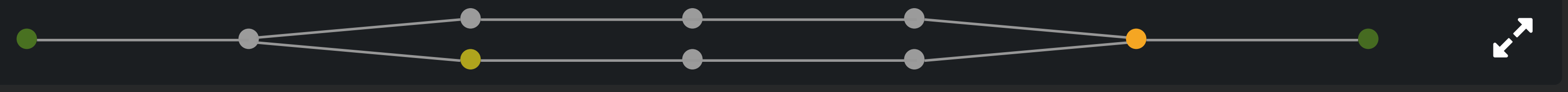


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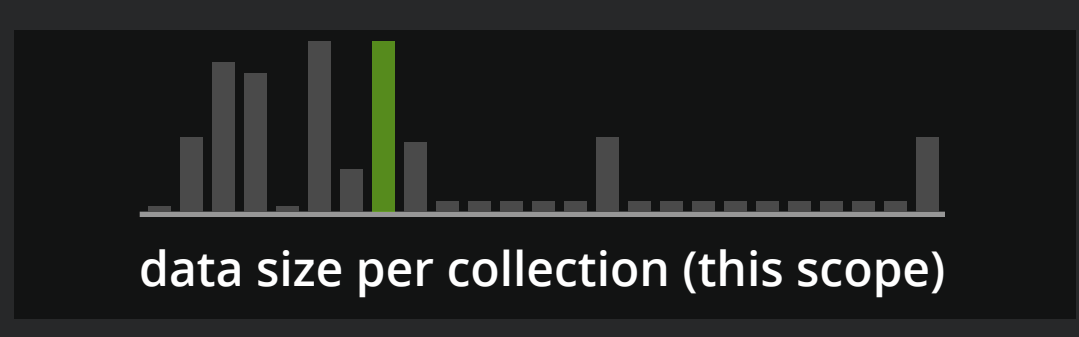
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geo (object)

accuracy (string)

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lon (num)

id (num)

name (string)

pets_ok (bool)

phone (null,string)

Index Field

add field to existing index...

or

type a name here to create a new index...

Create Index defer building the index

DOCUMENTS

```
{
  "airportname": "Calais",
  "city": "Calais",
  "country": "France",
  "faa": "CQF",
  "geo": {
    "alt": 12,
    "lat": 50.962097,
    "lon": 1.954764
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- > INDEXES N1QL 7 Search 3 Advice
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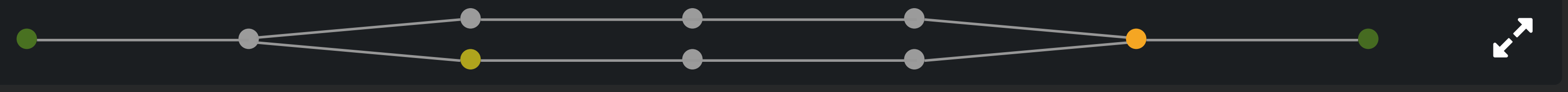


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Couch-Basics

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docs < collection < scope < bucket < cluster

documents Documents are the actual unit of data storage...usually a JSON document with an ID and declared type. They are also sometimes referred to as items in, for instance, some stats.

collections Collections contain documents. Collections also provide a protected namespace for document names and a convenient way to organize access rights for users and applications. Data is indexed and replicated per collection.

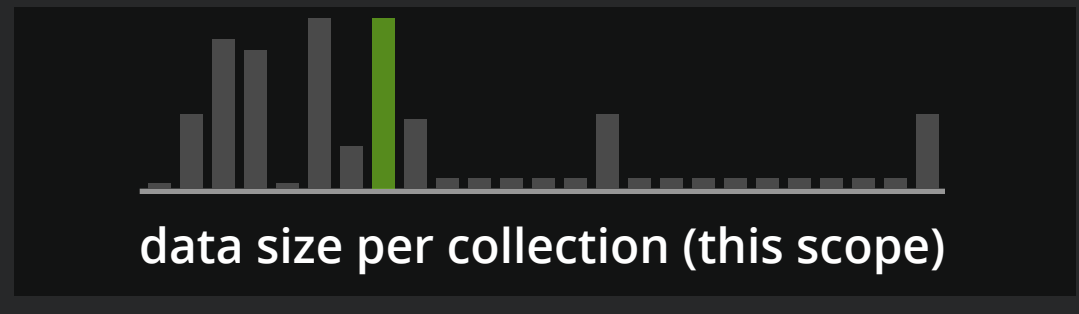
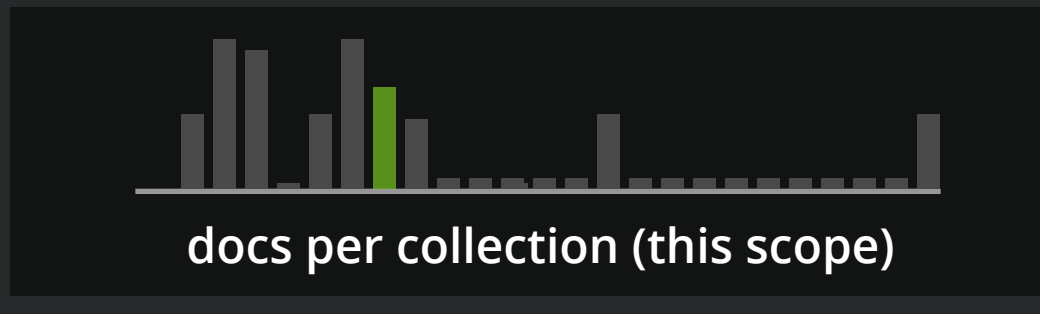
scopes Scopes contain one or more collections and provide a protected namespace for collection names as well as access rights for users and applications.

buckets Like the RDBMS database, Couchbase buckets have defined resources and access. Buckets contain scopes and collections.

cluster An instance of Couchbase Server which may span multiple physical or virtual server nodes (it's a cluster of nodes) and contain one or more buckets.

search field names...

- travel-sample.inventory 3 collections
- > travel-sample.inventory.airline 917 docs
- > **travel-sample.inventory.airport** 85,097 docs



type = airport 80% of 1,000 docs sampled

address (null,string)	✓ indexed field
alias (null,string)	
geo (object)	
accuracy (string)	
lat (num)	
lon (num)	
id (num)	
name (string)	
pets_ok (bool)	
phone (null,string)	

> DOCUMENTS < **airport_1254** >

```
{
  "airportname": "Calais Dunkerque",
  "city": "Calais",
  "country": "France",
  "faa": "CQF",
  "geo": {
    "alt": 12,
    "lat": 50.962097,
    "lon": 1.954764
  },
  "icao": "LFAC",
  "id": 1254,
  "type": "airport",
  "tz": "Europe/Paris"
}
```

> INDEXES N1QL 7 Search 3 ⚡ Advice

> QUERIES

- > travel-sample.inventory.hotel 11,678 docs

QUERIES + < RECENT QUERIES 0/14 >

```
1 FROM `travel-sample`.`inventory`.`airport`
.....
2 SELECT * WHERE geo.lat is not null;
```

<enter> to execute query

parameters & funcs Run as TX format query Copy Python | Share Query/Results

?

BASICS **N1QL STARTER** **N1QL CHEATSHEET**

Couch-Basics

TERMS

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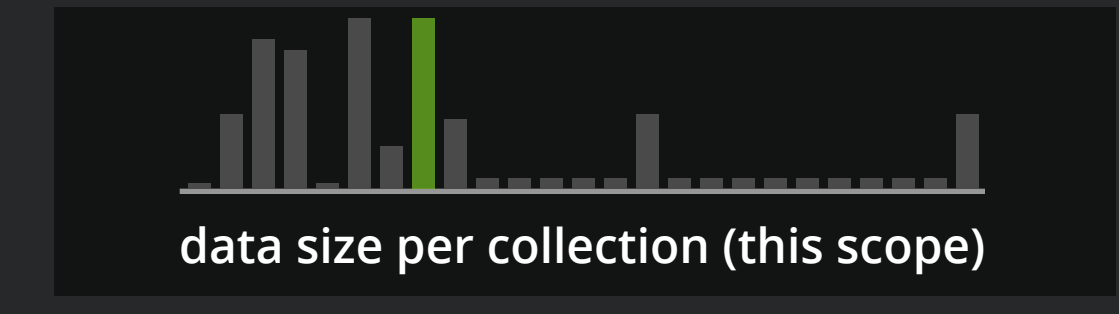
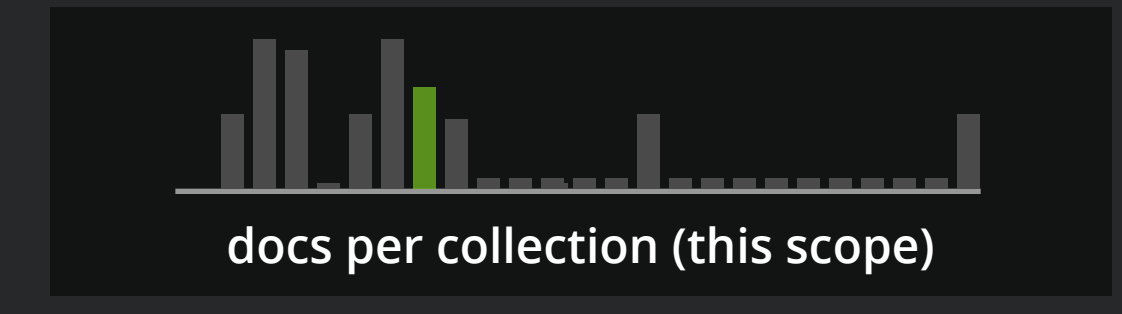
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search field names... [Search]

travel-sample.inventory 3 collections

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- travel-sample.inventory.airport** 85,097 docs



type = airport (Info) 80% of 1,000 docs sampled

- address (null,string) ✓ indexed field
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- geo (object)
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DOCUMENTS < **airport_1254** > [Search] >>

```
{
  "airportname": "Calais Dunkerque",
  "city": "Calais",
  "country": "France",
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  "geo": {
    "alt": 12,
    "lat": 50.962097,
    "lon": 1.954764
  },
  "icao": "LFAC",
  "id": 1254,
  "type": "airport",
  "tz": "Europe/Paris"
}
```

> **INDEXES** N1QL 7 Search 3 [Advice] [Expand]

> **QUERIES** [Expand]

> travel-sample.inventory.hotel 11,678 docs

QUERY HISTORY: travel-sample.inventory.*

successful queries 2307 this session 46 starred 9 imported 0

filter queries for any text... [Search]

last run	query definition	time	docs
0/03/2017 07:29:46 -0700	SELECT name, patronymic, fa lorem ipsum dolor...		
0/03/2017 07:29:46 -0700	SELECT namee, trade, sex, age, lorem ipsum dolor...		
0/03/2017 07:29:46 -0700	SELECT name, patronymic, family_name, lorem ipsum dolor...		
0/03/2017 07:29:46 -0700	SELECT * from `beer-sample...		
0/03/2017 07:29:46 -0700	SELECT * from `beer-sample...		
0/03/2017 07:29:46 -0700	ELECT * from `beer-sample...		
0/03/2017 07:29:46 -0700	SELECT * from `beer-sample...		
0/03/2017 07:29:46 -0700	SELECT * from `beer-sample...		
0/03/2017 07:29:46 -0700	SELECT * from `beer-sample...		
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[Share] [Delete Saved Queries]

N1QL STARTER N1QL CHEATSHEET

h-Basics

collection < scope < bucket < cluster

Documents Documents are the actual unit of storage...usually a JSON document with a unique *ID* and declared *type*. They are also sometimes referred to as *items* in, for example, some stats.

Scopes Collections contain documents. Scopes also provide a protected namespace for document names and a convenient way to organize access rights for individual applications. Data is indexed and aggregated per collection.

Buckets Scopes contain one or more buckets and provide a protected namespace for collection names as well as access rights for users and applications.

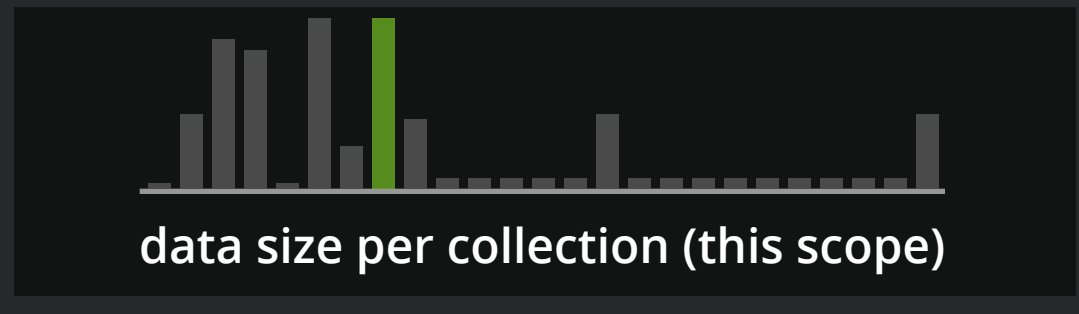
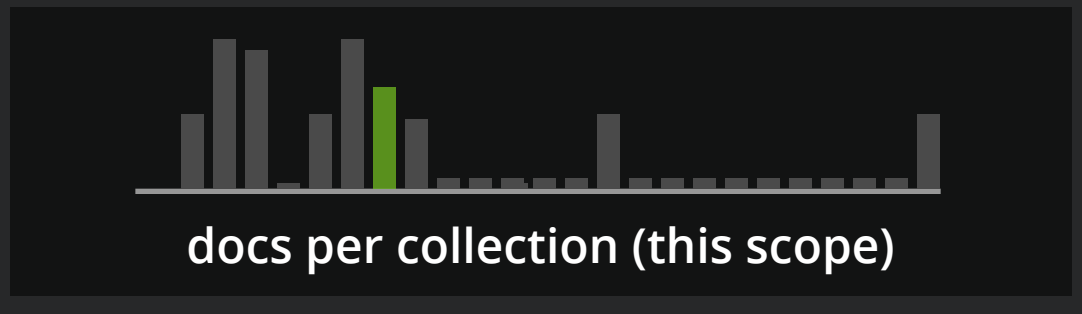
Resources Like the RDBMS database, Couchbase Server buckets have defined resources (users, roles, privileges). Buckets contain scopes and collections.

Nodes An instance of Couchbase Server may span multiple physical or virtual nodes (it's a cluster of nodes) and may contain one or more buckets.

[LP] **INDEX ADVICE** **CHARTS**

search field names...

- travel-sample.inventory 3 collections
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- < travel-sample.inventory.airport 85,097 docs



type = airport 80% of 1,000 docs sampled

address (null,string)	✓ indexed field
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< **airport_1254** >

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  "airportname": "Calais Dunkerque",
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  "id": 1254,
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}
```

> INDEXES N1QL 7 Search 3

> QUERIES

> travel-sample.inventory.hotel 11,678 docs

QUERY HISTORY: travel-sample.inventory.*

successful queries ²³⁰⁷ this session ⁴⁶ starred ⁹ imported ⁰

filter queries for any text...

last run	query definition	time	docs
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Share

Delete Saved Queries

N1QL STARTER N1QL CHEATSHEET

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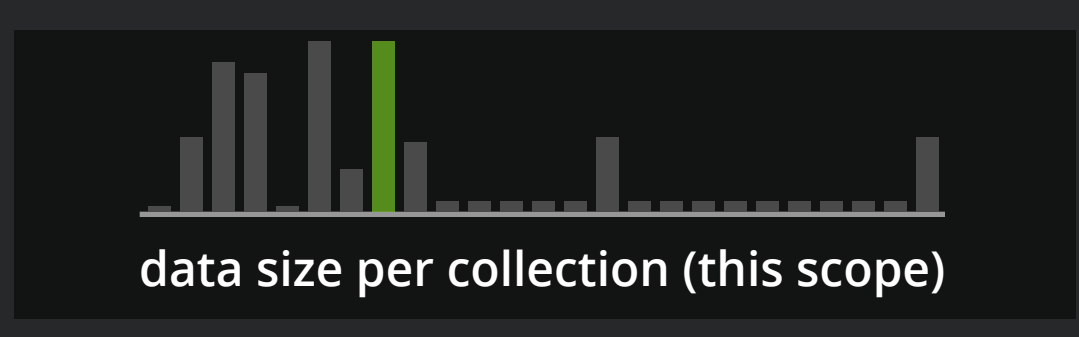
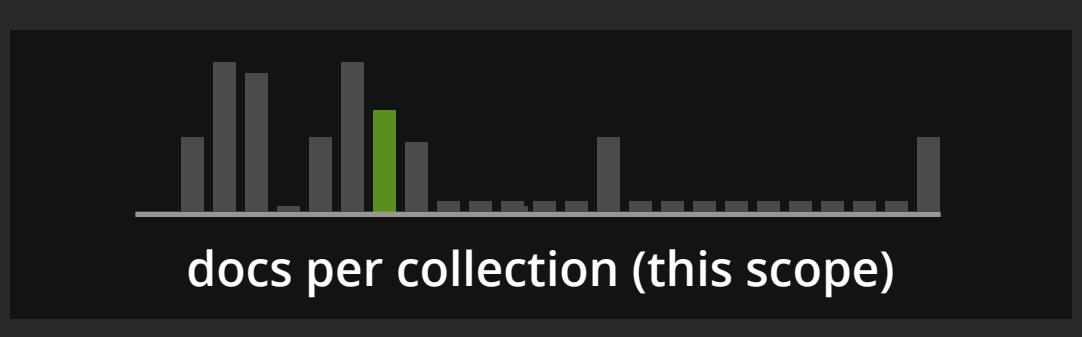
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- > INDEXES N1QL 7 Search 3 Advice
- > QUERIES
- > travel-sample.inventory.hotel 11,678 docs

QUERIES + < RECENT QUERIES 0/14 >

```
1 FROM `travel-sample`.`inventory`.`airport`
2 SE
```

SELECT

SELECT Syntax

SELECT Clause

ADVISE

ALTER INDEX

BEGIN TRANSACTION

BUILD INDEX

COMMIT TRANSACTION

CREATE COLLECTION

CREATE FUNCTION

CREATE INDEX

CREATE PRIMARY INDEX

CREATE SCOPE

DELETE

DROP COLLECTION

DROP FUNCTION

DROP INDEX

DROP PRIMARY INDEX

DROP SCOPE

EXECUTE

EXECUTE FUNCTION

EXPLAIN

GRANT

INFERR

INSERT

N1QL HELP →

Copy Python | Share Query/Results

Basics N1QL STARTER N1QL CHEATSHEET

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