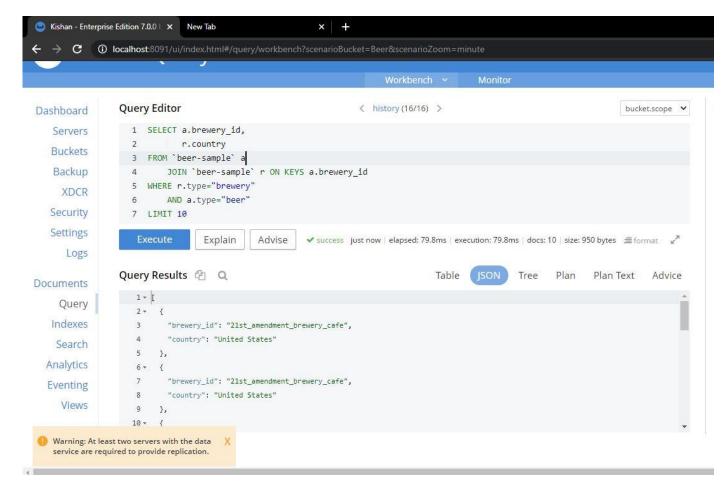
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## AU 2021 - NoSQL Basics & Drudamentals

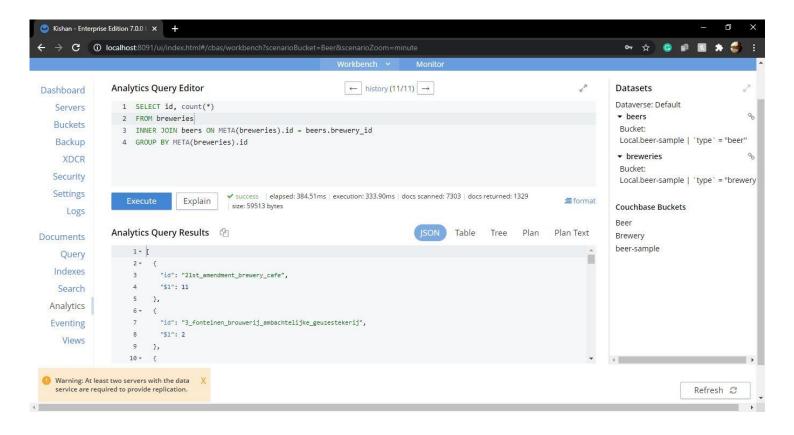
1: Import `beer-sample` bucket



2: Write a join query to fetch the Top 10 brewery(type="beer") and their country(type="brewery") which produces more varieties of beers.



Basic join query to return brewery id(type = beer) and country(type = brewery)



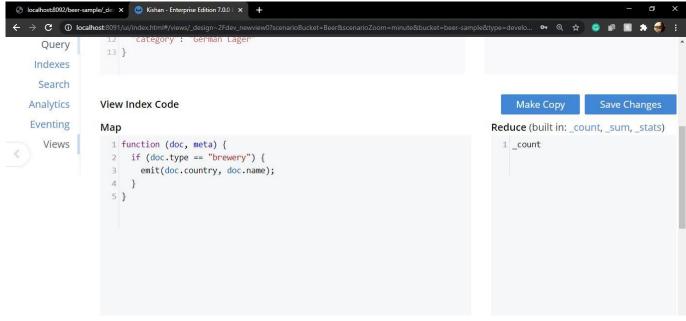
Analytics query: First created two separate datasets: beers and breweries. For providing count of the variety of beers produced by a brewery along with it's id

```
Breweries = CREATE DATASET breweries ON `beer-sample` WHERE `type` = "brewery";

Beers = CREATE DATASET beers ON `beer-sample` WHERE `type` = "beer";
```

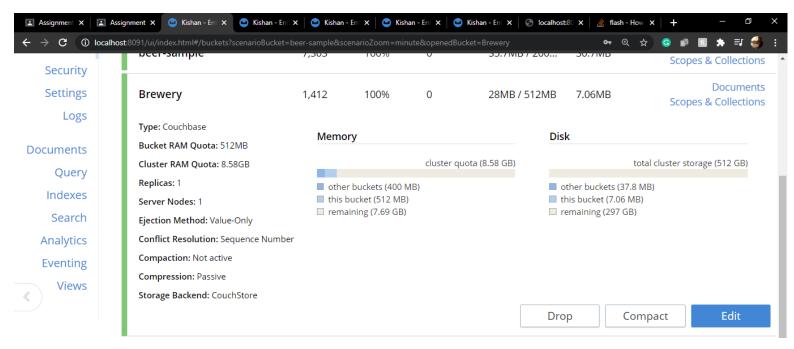
3: Write a mapreduce to get the number of breweries based on country. Please attach the mapreduce code and json output screenshot.

JSON output of MapReduce Query (number of breweries based on country)

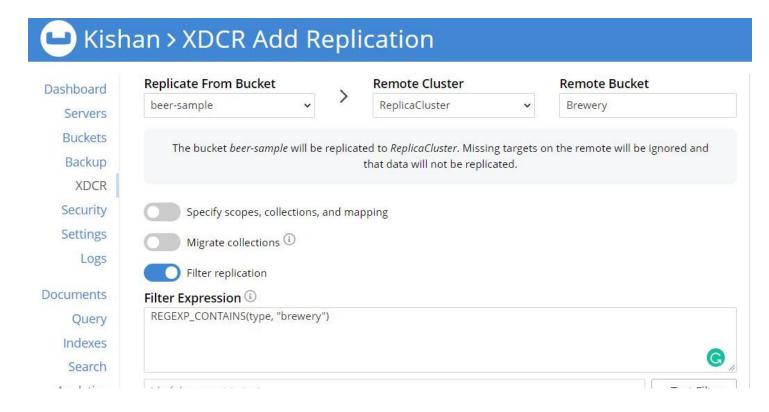


Map Reduce Code

## 4. XDCR: a) Add a new bucket "Brewery".



b) Create a XDCR with a filter(type='brewery') to replicate only the brewery entity from `beersample` bucket.



Created a new replica cluster named "ReplicaCluster", and started replication from `beersample` bucket to "Brewery" as Remote Bucket using "ReplicaCluster" as Remote Cluster.

Filter Expression used = REGEXP\_CONTAINS(type, "brewery")

This replicates entities in Brewery bucket from beer-sample bucket, only the one's which have type = brewery.



Brewery table after replication

## 5) <u>CLI:</u>

a) Add a new bucket "Beer".



b) Using CLI - do a cbexport of the entire `beer-sample`

```
C:\Program Files\Couchbase\Server\bin>cbexport json -c couchbase://127.0.0.1 -u Administrator -p kishan302 -b beer-sample -o F:/beer-sample.json -f lines -t 4

JSON exported to `F:/beer-sample.json` successfully

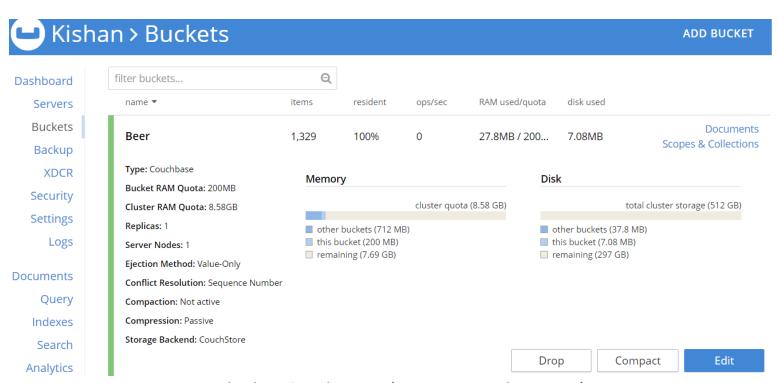
Documents exported: 7303 Documents skipped: 0

C:\Program Files\Couchbase\Server\bin>
```

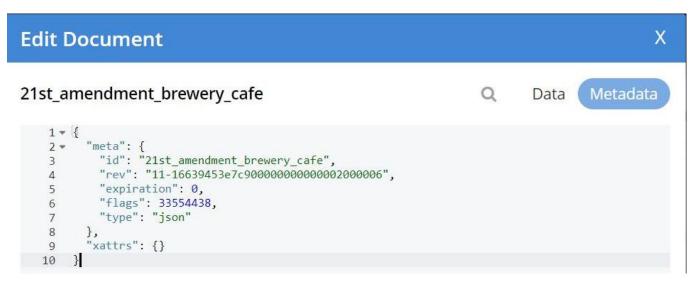
c) And do a cbimport with "brewery\_id" as primary key. As a result, in the new bucket - only "beer" documents will be imported with their respective brewery name as meta().id

```
C:\Program Files\Couchbase\Server\bin>cbimport json -c couchbase://127.0.0.1 -u Administrator -p kishan302 -b Beer -f lines -d file://F:/beer-sample.json -t 4 -g %bre wery_id%
2021-02-14715:19:37.579+05:30 ERRO: Failed to import document 9: Error in key expression at char 0, field 'brewery_id' does not exist -- jsondata.(*JSONSource).handleEr ror() at source.go:379
2021-02-14715:19:37.598+05:30 ERRO: Failed to import document 16: Error in key expression at char 0, field 'brewery_id' does not exist -- jsondata.(*JSONSource).handleEr ror() at source.go:379
2021-02-14715:19:37.599+05:30 ERRO: Failed to import document 3: Error in key expression at char 0, field 'brewery_id' does not exist -- jsondata.(*JSONSource).handleEr ror() at source.go:379
2021-02-14715:19:37.604+05:30 ERRO: Failed to import document 10: Error in key expression at char 0, field 'brewery_id' does not exist -- jsondata.(*JSONSource).handleEr ror() at source.go:379
2021-02-14715:19:37.613+05:30 ERRO: Failed to import document 11: Error in key expression at char 0, field 'brewery_id' does not exist -- jsondata.(*JSONSource).handleEr ror() at source.go:379
2021-02-14715:19:37.614+05:30 ERRO: Failed to import document 19: Error in key expression at char 0, field 'brewery_id' does not exist -- jsondata.(*JSONSource).handleEr ror() at source.go:379
2021-02-14715:19:37.614+05:30 ERRO: Failed to import document 19: Error in key expression at char 0, field 'brewery_id' does not exist -- jsondata.(*JSONSource).handleError() at source.go:379
```

It imports only those documents which contain "brewery\_id", Hence successfully imports 1329 documents which contain "brewery\_id", and fails to import 5974 documents, because they don't contain a field called "brewery\_id".



Beer bucket after chimport (contains 1329 documents)



Beer bucket's meta().id = brewery name