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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.

3. Write a mapreduce to get the number of breweries based on country.

Please attach the mapreduce code and json output screenshot.

Map

```
1 function (doc, meta) {
2   if(doc.type=="brewery")
3     emit(doc.country, 1);
4 }
```

Reduce (built in: _count, _sum, _stats)

```
1 _count
```

Results ⌄ filter: ?limit=6&stale=false&connection_timeout=60000&inclusive_end=true&reduce=true&skip=0&full_set=true&group=true

Development Time Subset   Full Cluster Data Set   < >   Show Results

Key	Value

Development Time Subset   Full Cluster Data Set   < >   Show Results

Key	Value
"" undefined	1
"Argentina" undefined	2
"Aruba" undefined	1
"Australia" undefined	14
"Austria" undefined	10
"Belgium" undefined	99

Development Time Subset   Full Cluster Data Set   < >   Show Results

Key	Value
"Togo" undefined	1
"United Kingdom" undefined	79
"United States" undefined	875
"Viet Nam" undefined	2

4. XDCR:

a) Add a new bucket "Brewery".

b) Create a XDCR with a filter(type='brewery') to replicate only the

brewery entity from `beer-sample` bucket.

Bucket   show top keys   Limit ⓘ   Offset ⓘ   Document ID ⓘ   show range   N1QL WHERE ⓘ   **Retrieve Docs**

| Brewery ▼ | 10 | 0 | optional... | no indexes available... |

10 Results for *Brewery, limit: 10, offset: 0*   ⬤ enable field editing   < prev batch | next batch >

	id	
✏ ⧉ 🗑 💾	21st_amendment_brewery_cafe	{"address":["563 Second Street"],"city":"San Francisco","code":"94107","country":"United States","description":"The 21st Amendment Brewery offers a variety of award winning house made brews a Americ...
✏ ⧉ 🗑 💾	357	{"address": [],"city":"","code":"","country":"","description":"","name":"357","phone":"","state":"","type":"brewery","updated 010-07-22 20:00:20","website":""}
✏ ⧉ 🗑 💾	3_fonteinen_brouwerij_ambachtelijke_geu zestekerij	{"address":["Hoogstraat 2A"],"city":"Beersel","code":"","country":"Belgium","description":"","geo": {"accuracy":"RANGE_INTERPOLATED","lat":50.7668,"lon":4.3081},"name":"3 Fonteinen Brouwerij Ambachteli
✏ ⧉ 🗑 💾	512_brewing_company	{"address":["407 Radam, F200"],"city":"Austin","code":"78745","country":"United States","description":"(512) Brewing Company is a microbrewery located in the heart of Austin that brews for the communi...
✏ ⧉ 🗑 💾	aass_brewery	{"address":["Ole Steensgt. 10 Postboks 1530"],"city":"Drammen","code":"","country":"Norway","description":": Brewery was established in 1834 and is the oldest brewery in Norway today. It is located...
✏ ⧉ 🗑 💾	abbaye_de_leffe	{"address":["Dinant"],"city":"Dinant","code":"","country":"Belgium","description":"","geo": {"accuracy":"APPROXIMATE","lat":50.2606,"lon":4.9122},"name":"Abbaye de Leffe","phone":"","state":"Namur","ty...
✏ ⧉ 🗑 💾	abbaye_de_maredsous	{"address":["Rue de Maredsous, 11"],"city":"Dene","code":"","country":"Belgium","description":"","geo":

filter buckets... 🔍						
name ▼	items	resident	ops/sec	RAM used/quota	disk used	
beer-sample	7,303	100%	0	37.2MB / 100MB	25.5MB	Documents Statistics
Brewery	1,412	100%	0	30.9MB / 1.27GB	7.31MB	Documents Statistics

5. CLI:

a) Add a new bucket "Beer".

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

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>couchbase-cli bucket-create -c 127.0.0.1 --username Administrator --password passw
ord --bucket Beer --bucket-type couchbase --bucket-ramsize 101
SUCCESS: Bucket created
```

```
C:\Program Files\Couchbase\Server\bin>cbexport json -c couchbase://127.0.0.1 -u Administrator -p password -b beer-sample
 -o C:/Users/user/Documents/Sai\NosqlAssignment/beer-sample.json -f lines -t 4
2021-02-19T11:34:48.295+05:30 WARN: (Couchbase) Unexpected error 'operation timed out after 5s' while trying to get sequ
ence numbers, will retry in 5s -- couchbase.GetSequenceNumbers() at sequence_numbers.go:38
2021-02-19T11:35:03.305+05:30 WARN: (Couchbase) Unexpected error 'operation timed out after 10s' while trying to get seq
uence numbers, will retry in 10s -- couchbase.GetSequenceNumbers() at sequence_numbers.go:38
Json exported to `C:/Users/user/Documents/Sai\NosqlAssignment/beer-sample.json` successfully
Documents exported: 7303 Documents skipped: 0
```

```
C:\Program Files\Couchbase\Server\bin>cbimport json -c couchbase://127.0.0.1 -u Administrator -p password -b Beer -f lin
es -d file://C:/Users/user/Documents/Sai\NosqlAssignment/beer-sample.json -t 4 -g %brewery_id%
2021-02-19T11:39:07.659+05:30 ERRO: Error in key expression at char 0, field 'brewery_id' does not exist -- jsondata.(*P
arallelizer).Execute.func1() at source.go:217
2021-02-19T11:39:07.681+05:30 ERRO: Error in key expression at char 0, field 'brewery_id' does not exist -- jsondata.(*P
arallelizer).Execute.func1() at source.go:217
2021-02-19T11:39:07.693+05:30 ERRO: Error in key expression at char 0, field 'brewery_id' does not exist -- jsondata.(*P
arallelizer).Execute.func1() at source.go:217
2021-02-19T11:39:07.696+05:30 ERRO: Error in key expression at char 0, field 'brewery_id' does not exist -- jsondata.(*P
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2021-02-19T11:39:07.697+05:30 ERRO: Error in key expression at char 0, field 'brewery_id' does not exist -- jsondata.(*P
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2021-02-19T11:39:07.700+05:30 ERRO: Error in key expression at char 0, field 'brewery_id' does not exist -- jsondata.(*P
arallelizer).Execute.func1() at source.go:217
```

Beer	1,329	100%	0	30.7MB / 101MB	7MB	Documents Statistics
beer-sample	7,303	44.2%	0	37.2MB / 100MB	31MB	Documents Statistics
Brewery	1,412	100%	0	30.9MB / 102MB	7.31MB	Documents Statistics

Type: Couchbase

Bucket RAM Quota: 102MB

Cluster RAM Quota: 1.36GB

Replicas: 1

Server Nodes: 1

Ejection Method: Value-Only

Conflict Resolution: Sequence Number

Compaction: Not active

Memory

cluster quota (1.36 GB)

■ other buckets (201 MB)
■ this bucket (102 MB)
☐ remaining (1.07 GB)

Disk

total cluster storage (97 GB)

■ other buckets (38 MB)
■ this bucket (7.31 MB)
☐ remaining (21.3 GB)

Delete   Compact   Edit