

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

```
SELECT be.name AS beer_name,  
       br.country AS country  
FROM `beer-sample` be  
     JOIN `beer-sample` br ON KEYS be.brewery_id  
WHERE be.type="beer"  
      AND br.type="brewery"  
LIMIT 10;
```

OUTPUT-

Workbench

Monitor

Query Editor

< history (12/12) >

bucket.scope

```
1 SELECT be.name AS beer_name,  
2     br.country AS country  
3 FROM `beer-sample` be  
4     JOIN `beer-sample` br ON KEYS be.brewery_id  
5 WHERE be.type="beer"  
6     AND br.type="brewery"  
7 LIMIT 10;
```

Execute

Explain

Advise

✓ success 3 min ago | elapsed: 109.7ms | execution: 109.7ms | docs: 10  
size: 826 bytes

format

Query Results

Table JSON Tree Plan Plan Text Advice

beer_name	country
21A IPA	United States
563 Stout	United States
Amendment Pale Ale	United States
Bitter American	United States
Double Trouble IPA	United States
General Pippo's Porter	United States

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

**OUTPUT-**

Map code-

```
function (doc, meta) {  
    if(doc.type=="brewery")  
        emit(doc.country, null);  
}
```

Reduce code-

`_count`

Map

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

Reduce (built in: `_count`, `_sum`, `_stats`)

```
1 _count
```

```
{  
  - rows: [  
    - {  
      key: "Togo",  
      value: 1  
    },  
    - {  
      key: "United Kingdom",  
      value: 79  
    },  
    - {  
      key: "United States",  
      value: 875  
    },  
    - {  
      key: "Viet Nam",  
      value: 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.

#### OUTPUT-

Filter Condition-

REGEXP\_CONTAINS(type, "brewery")

VIEW MODE - UNSUPPORTED - NOT FOR USE IN PRODUCTION

activity

himanshu\_cluster > XDCR Replications

ADD REPLICATION

board

vers

:kets

ckup

:DCR

urity

tings

Logs

ents

uery

exes

arch

Remote Clusters

name ▾	IP/hostname
himanshu_cluster	127.0.0.1:8091

Delete

Outgoing Replications

source bucket	destination bucket	remote cluster	status
beer-sample <div>filter</div>	Brewery	himanshu_cluster	replicating ..

Active Filters

REGEXP\_CONTAINS(type, "brewery")

## 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

d) Share your observation on counts with screenshot.

## OUTPUT:

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

```
beer-sample.json - Notepad
File Edit Format View Help
{"address":{"Douvieweg 2"},"city":"Watou","code":"","country":"Belgium","description":"","geo":{"accuracy":"ROOFTOP","lat":50.8612,"lon":2.6615},"name":"Brouwerij Van E
{"abv":0,"brewery_id":"martini_brauerei","description":"","ibu":0,"name":"Weissbier Dunkel","srm":0,"type":"beer","upc":0,"updated":"2010-07-22 20:00:20"}
{"abv":0,"brewery_id":"mcmenamins_mill_creek","category":"North American Ale","description":"","ibu":0,"name":"Irish Stout","srm":0,"style":"American-Style Stout","type
{"abv":0,"brewery_id":"copper_kettle_brewery","category":"Belgian and French Ale","description":"This beer is medium dark in color but it has a light body and a smooth
{"abv":8,"brewery_id":"brasserie_de_blaugies","description":"","ibu":0,"name":"La Moneuse","srm":0,"type":"beer","upc":0,"updated":"2010-07-22 20:00:20"}
{"abv":0,"brewery_id":"atwater_block_brewing","category":"North American Ale","description":"","ibu":0,"name":"Alt","srm":0,"style":"American-Style Brown Ale","type":"b
{"abv":0,"brewery_id":"pumphouse_brewery_restaurant","category":"North American Ale","description":"","ibu":0,"name":"Red Alert Ale","srm":0,"style":"American-Style Amb
{"address":{"21 W. Bay St."},"city":"Savannah","code":"31401","country":"United States","description":"The Moon River Brewing Company is founded on our obsession with c
{"address":{"3435 Cesar Chavez #227"},"city":"San Francisco","code":"94110","country":"United States","description":"","geo":{"accuracy":"RANGE_INTERPOLATED","lat":37.7
{"abv":0,"brewery_id":"brown_street_brewery","description":"","ibu":0,"name":"South of the Border Light","srm":0,"type":"beer","upc":0,"updated":"2010-07-22 20:00:20"}
{"abv":0,"brewery_id":"barley_john_s_brewpub","description":"","ibu":0,"name":"Wit","srm":0,"type":"beer","upc":0,"updated":"2010-07-22 20:00:20"}
{"abv":6,"brewery_id":"abbaye_de_maredsous","category":"North American Ale","description":"Blonde Ales are one of the fastest growing beer styles in Belgium, France and
{"abv":11,"brewery_id":"pacific_rim_brewing","description":"","ibu":0,"name":"Castaway Barley Wine Winter Ale","srm":0,"type":"beer","upc":0,"updated":"2010-07-22 20:00
{"address":{"Gallowgate"},"city":"Newcastle-upon-Tyne","code":"","country":"United Kingdom","description":"","geo":{"accuracy":"APPROXIMATE","lat":40.8918,"lon":-76.797
{"abv":4.5,"brewery_id":"rahr_sons_brewing_company","category":"North American Ale","description":"Rahr's Buffalo Butt is a smooth, medium-bodied amber lager. Notes of
{"abv":6.2,"brewery_id":"great_lakes_brewing","category":"North American Lager","description":"An amber lager with rich, fragrant malt flavors balanced by crisp, noble
{"abv":0,"brewery_id":"loaf_and_stein_brewing","category":"North American Ale","description":"","ibu":0,"name":"Nut Brown","srm":0,"style":"American-Style Brown Ale","t
{"abv":8.75,"brewery_id":"deschutes_brewery","category":"North American Ale","description":"HOP HENGE IMPERIAL IPA - The Ultimate in Hop Innovation \r\n\r\nHop Henge In
the five alarm award. The high-octane hoppiness is a wildly refreshing antidote to a wide array of hot foods.\r\n\r\nLimited Availability April through June.\r\n\r\n\r\nDon
r\n\r\n\r\nAlcohol By Volume: 8.1%\r\n\r\n\r\n\r\nIBU 95\r\n\r\n\r\nWhen one of our brewers suggested we name our new IPA Hop Henge, he also came up with the idea of actually rec
th an appealing rocky head, and rich hop aroma wafting from the glass. "They sure dosed it with a lot of hops...[there's] a lot of hop bitterness in the taste," one tas
{"address":{"100 Little Dam Road"},"city":"Dillon","code":"80435","country":"United States","description":"","geo":{"accuracy":"GEOMETRIC_CENTER","lat":39.6282,"lon":-1
{"abv":6.2,"brewery_id":"moose_s_tooth_pub_and_pizzeria","category":"North American Ale","description":"A deep-red, full-bodied, malty ale heavily hopped with Centennia
{"abv":0,"brewery_id":"goose_island_beer_company_clybourn","category":"North American Ale","description":"","ibu":0,"name":"Dublin Stout","srm":0,"style":"American-Style
{"address":{"Spott Road"},"city":"East Lothian","code":"","country":"United Kingdom","description":"","geo":{"accuracy":"GEOMETRIC_CENTER","lat":55.997,"lon":-2.5098},"
{"abv":4.5,"brewery_id":"uerige_obergribe_hausbrauerei","category":"North American Ale","description":"","ibu":0,"name":"Alt","srm":0,"style":"American-Style Brown Ale"
{"abv":0,"brewery_id":"route_66_brewery","category":"Other Style","description":"","ibu":0,"name":"Rambling Raspberry Ale","srm":0,"style":"Light American Wheat Ale or
{"abv":0,"brewery_id":"abita_brewing_company","category":"Other Style","description":"This Wit beer has a sweet and subtle citrus flavor with a touch of spice that is c
{"address":{"2800 North Reading Road"},"city":"Adamstown","code":"19501","country":"United States","description":"Over 20 years, Stoudt's Brewing Company has grown and
{"address":{"Zrich"},"city":"Zrich","code":"","country":"Switzerland","description":"","geo":{"accuracy":"APPROXIMATE","lat":47.369,"lon":8.538},"name":"Steinfels Back \u0026
{"address":{"68 route d'Oberhausbergen"},"city":"Strasbourg","code":"","country":"France","description":"","geo":{"accuracy":"RANGE_INTERPOLATED","lat":48.593,"lon":7.7
{"abv":4.8,"brewery_id":"bar_harbor_brewing_company","category":"North American Ale","description":"","ibu":0,"name":"Thunder Hole Ale","srm":0,"style":"American-Style
{"abv":7.2,"brewery_id":"youngs_company_brewery","description":"","ibu":0,"name":"Old Nick","srm":0,"type":"beer","upc":0,"updated":"2010-07-22 20:00:20"}
{"abv":0,"brewery_id":"big_ridge_brewing","category":"Irish Ale","description":"","ibu":0,"name":"Old Sullivan Porter","srm":0,"style":"Porter","type":"beer","upc":0,"u
{"abv":9.47,"brewery_id":"stone_brewing_co","category":"North American Ale","description":"","ibu":0,"name":"Imperial Stout 2002","srm":0,"style":"American-Style Stout"
{"address":{"Concord"},"city":"Concord","code":"","country":"United States","description":"","geo":{"accuracy":"APPROXIMATE","lat":37.978,"lon":-122.031},"name":"Coastal Fog Bre
<
```

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

```
Select Command Prompt
2021-02-18T21:14:17.659+05:30 ERRO: Failed to import document 7186: Error in key expression at char 0, field 'brewery_id' does not exist -- jsontdata.(*JSONSource).handl
eError() at source.go:379
2021-02-18T21:14:17.660+05:30 ERRO: Failed to import document 7194: Error in key expression at char 0, field 'brewery_id' does not exist -- jsontdata.(*JSONSource).handl
eError() at source.go:379
2021-02-18T21:14:17.661+05:30 ERRO: Failed to import document 7201: Error in key expression at char 0, field 'brewery_id' does not exist -- jsontdata.(*JSONSource).handl
eError() at source.go:379
2021-02-18T21:14:17.665+05:30 ERRO: Failed to import document 7204: Error in key expression at char 0, field 'brewery_id' does not exist -- jsontdata.(*JSONSource).handl
eError() at source.go:379
2021-02-18T21:14:17.665+05:30 ERRO: Failed to import document 7209: Error in key expression at char 0, field 'brewery_id' does not exist -- jsontdata.(*JSONSource).handl
eError() at source.go:379
2021-02-18T21:14:17.669+05:30 ERRO: Failed to import document 7220: Error in key expression at char 0, field 'brewery_id' does not exist -- jsontdata.(*JSONSource).handl
eError() at source.go:379
2021-02-18T21:14:17.672+05:30 ERRO: Failed to import document 7221: Error in key expression at char 0, field 'brewery_id' does not exist -- jsontdata.(*JSONSource).handl
eError() at source.go:379
2021-02-18T21:14:17.681+05:30 ERRO: Failed to import document 7224: Error in key expression at char 0, field 'brewery_id' does not exist -- jsontdata.(*JSONSource).handl
eError() at source.go:379
2021-02-18T21:14:17.729+05:30 ERRO: Failed to import document 7236: Error in key expression at char 0, field 'brewery_id' does not exist -- jsontdata.(*JSONSource).handl
eError() at source.go:379
2021-02-18T21:14:17.732+05:30 ERRO: Failed to import document 7239: Error in key expression at char 0, field 'brewery_id' does not exist -- jsontdata.(*JSONSource).handl
eError() at source.go:379
2021-02-18T21:14:17.734+05:30 ERRO: Failed to import document 7246: Error in key expression at char 0, field 'brewery_id' does not exist -- jsontdata.(*JSONSource).handl
eError() at source.go:379
2021-02-18T21:14:17.738+05:30 ERRO: Failed to import document 7251: Error in key expression at char 0, field 'brewery_id' does not exist -- jsontdata.(*JSONSource).handl
eError() at source.go:379
2021-02-18T21:14:17.739+05:30 ERRO: Failed to import document 7255: Error in key expression at char 0, field 'brewery_id' does not exist -- jsontdata.(*JSONSource).handl
eError() at source.go:379
2021-02-18T21:14:17.742+05:30 ERRO: Failed to import document 7266: Error in key expression at char 0, field 'brewery_id' does not exist -- jsontdata.(*JSONSource).handl
eError() at source.go:379
2021-02-18T21:14:17.743+05:30 ERRO: Failed to import document 7268: Error in key expression at char 0, field 'brewery_id' does not exist -- jsontdata.(*JSONSource).handl
eError() at source.go:379
2021-02-18T21:14:17.744+05:30 ERRO: Failed to import document 7280: Error in key expression at char 0, field 'brewery_id' does not exist -- jsontdata.(*JSONSource).handl
eError() at source.go:379
2021-02-18T21:14:17.745+05:30 ERRO: Failed to import document 7285: Error in key expression at char 0, field 'brewery_id' does not exist -- jsontdata.(*JSONSource).handl
eError() at source.go:379
2021-02-18T21:14:17.747+05:30 ERRO: Failed to import document 7293: Error in key expression at char 0, field 'brewery_id' does not exist -- jsontdata.(*JSONSource).handl
eError() at source.go:379
2021-02-18T21:14:17.749+05:30 ERRO: Failed to import document 7294: Error in key expression at char 0, field 'brewery_id' does not exist -- jsontdata.(*JSONSource).handl
eError() at source.go:379
2021-02-18T21:14:17.752+05:30 ERRO: Failed to import document 7303: Error in key expression at char 0, field 'brewery_id' does not exist -- jsontdata.(*JSONSource).handl
eError() at source.go:379
JSON import failed: 5891 documents were imported, 1412 documents failed to be imported
JSON import failed: Some errors occurred while transferring data, see logs for more details
Activate Windows
Go to Settings to activate Windows.
C:\Program Files\Couchbase\Server\bin>
```

```
eError() at source.go:379
2021-02-18T21:14:17.749+05:30 ERRO: Failed to import document 7294: Error in key expression at ch
eError() at source.go:379
2021-02-18T21:14:17.752+05:30 ERRO: Failed to import document 7303: Error in key expression at ch
eError() at source.go:379
JSON import failed: 5891 documents were imported, 1412 documents failed to be imported
JSON import failed: Some errors occurred while transferring data, see logs for more details
C:\Program Files\Couchbase\Server\bin>
```

## Edit Document



21st\_amendment\_brewery\_cafe



Data

Metadata

```
1 {  
2   "abv": 5.2,  
3   "brewery_id": "21st_amendment_brewery_cafe",  
4   "category": "North American Ale",  
5   "description": "Rich golden hue color. Floral hop with sweet malt aroma. Medium  
6     mouth feel with malt sweetness, hop quenching flavor and well-balanced  
7     bitterness.",  
8   "ibu": 0,  
9   "name": "Amendment Pale Ale",  
10  "srm": 0,  
11  "style": "American-Style Pale Ale",  
12  "type": "beer",  
13  "upc": 0,  
14  "updated": "2010-07-22 20:00:20"  
15 }
```

Cancel

Save

## Edit Document



21st\_amendment\_brewery\_cafe



Data

Metadata

```
1 {  
2   "meta": {  
3     "id": "21st_amendment_brewery_cafe",  
4     "rev": "11-1664e2005a7e000000000000002000006",  
5     "expiration": 0,  
6     "flags": 33554438,  
7     "type": "json"  
8   },  
9   "xattrs": {}  
10 }
```

Cancel

Save