NoSQL Assignment – AU 2021- Utkarsh Agnihotri

Assignment:

1. Import `travel-sample` bucket
- Head on SETTINGS , then SAMPLE BUCKETS

2. Write a query to get the sum of all distances where type="route" for each airline id.
- Query written below

```
1  SELECT airlineid,Sum(distance) FROM `travel-sample` WHERE type = "route" GROUP BY airlineid;
```

3. Write queries to join(LEFT,RIGHT,INNER) type="route"&"airline" and fetch the data whose sourceairport="SFO"

Inner Join
```
SELECT *
FROM `travel-sample` route
INNER JOIN `travel-sample` airline ON META(airline).id = route.airlineid
    AND airline.type = "airline"
WHERE route.sourceairport="SFO";
```

Right Join
```
SELECT *
FROM `travel-sample` route RIGHT
    JOIN `travel-sample` airline ON META(airline).id = route.airlineid
    AND airline.type = "airline"
WHERE route.sourceairport="SFO";
```
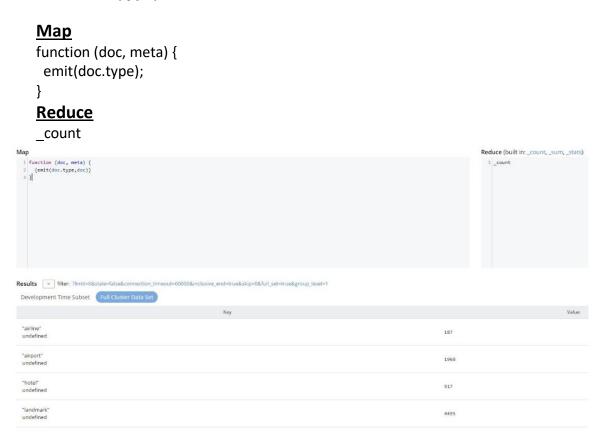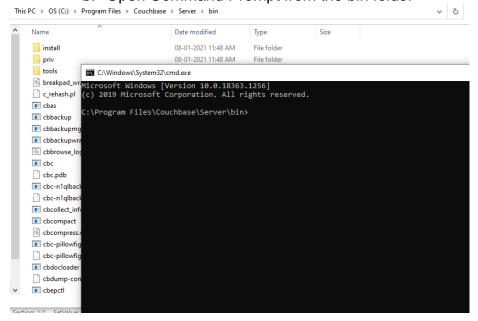
Left Join
```
SELECT *
FROM `travel-sample` route LEFT
    JOIN `travel-sample` airline ON META(airline).id = route.airlineid
    AND airline.type = "airline"
WHERE route.sourceairport="SFO";
```

4. Write a mapreduce to get the number of all documents based on entities(type).

Map
function (doc, meta) {
  emit(doc.type);
}
Reduce
_count

Map

```
1 function (doc, meta) {
2   {emit(doc.type,doc)}
3 }
```

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

Results ⌄ filter: ?limit=6&stale=false&connection_timeout=60000&inclusive_end=true&skip=0&full_set=true&group_level=1

Development Time Subset   Full Cluster Data Set

Key	Value
"airline" undefined	187
"airport" undefined	1968
"hotel" undefined	917
"landmark" undefined	4495

5. Refer CLI interface & try to export the travel sample data. Below are the steps:
   a. Go to Couchbase Bin folder - C:\Program Files\Couchbase\Server\bin
   b. Open Command Prompt from the bin folder

This PC › OS (C:) › Program Files › Couchbase › Server › bin

Name	Date modified	Type	Size
install	08-01-2021 11:48 AM	File folder	
priv	08-01-2021 11:48 AM	File folder	
tools			
breakpad_wr			
c_rehash.pl			
cbas			
cbbackup			
cbbackupmg			
cbbackupwra			
cbbrowse_log			
cbc			
cbc.pdb			
cbc-n1qlback			
cbc-n1qlback			
cbcollect_inf			
cbcompact			
cbcompress.			
cbc-pillowfig			
cbc-pillowfig			
cbdocloader			
cbdump-con			
cbepctl			

C:\Windows\System32\cmd.exe

Microsoft Windows [Version 10.0.18363.1256]
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C:\Program Files\Couchbase\Server\bin>

Section: 1/1   SetValue:

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      c. Run the below command to export the data from travel-sample bucket:

cbexport json -c couchbase://127.0.0.1 -u <USER NAME> -p <password> -b travel-sample -o C:/travelSample.json -f lines -t 4

D) Create a new Bucket "NewBucket" & import the data to it:

cbimport json -c couchbase://127.0.0.1 -u <User Name> -p <password> -b NewBucket -f lines -d file://C:/travelSample.json -t 4 -g %id%

    E) Once the data is imported, please attach the screenshot.

<u>Note</u>:
-u --> UserId which you've created
-p --> password
-b --> bucket name

```
C:\Programs\couchbase\bin>cbexport json -c couchbase://127.0.0.1 -u Administrator -p agniutkarsh -b travel-sample -o C:/travelSample.json -f lines -t 4
C:\softwares\couchbase\bin>cbexport json -c couchbase://127.0.0.1 -u Administrator -p agniutkarsh -b travel-sample -o c:/travelSample.json -f lines -t 4
Json exported to 'C:/travelSample.json' successfully
Documents exported: 31591 Documents skipped: 0
```