NOSQL Basics/Fundamentals

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Assignment

1. Import `travel-sample` bucket

2. Write a query to get the sum of all distances where type=”route” for each airline id.

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

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

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

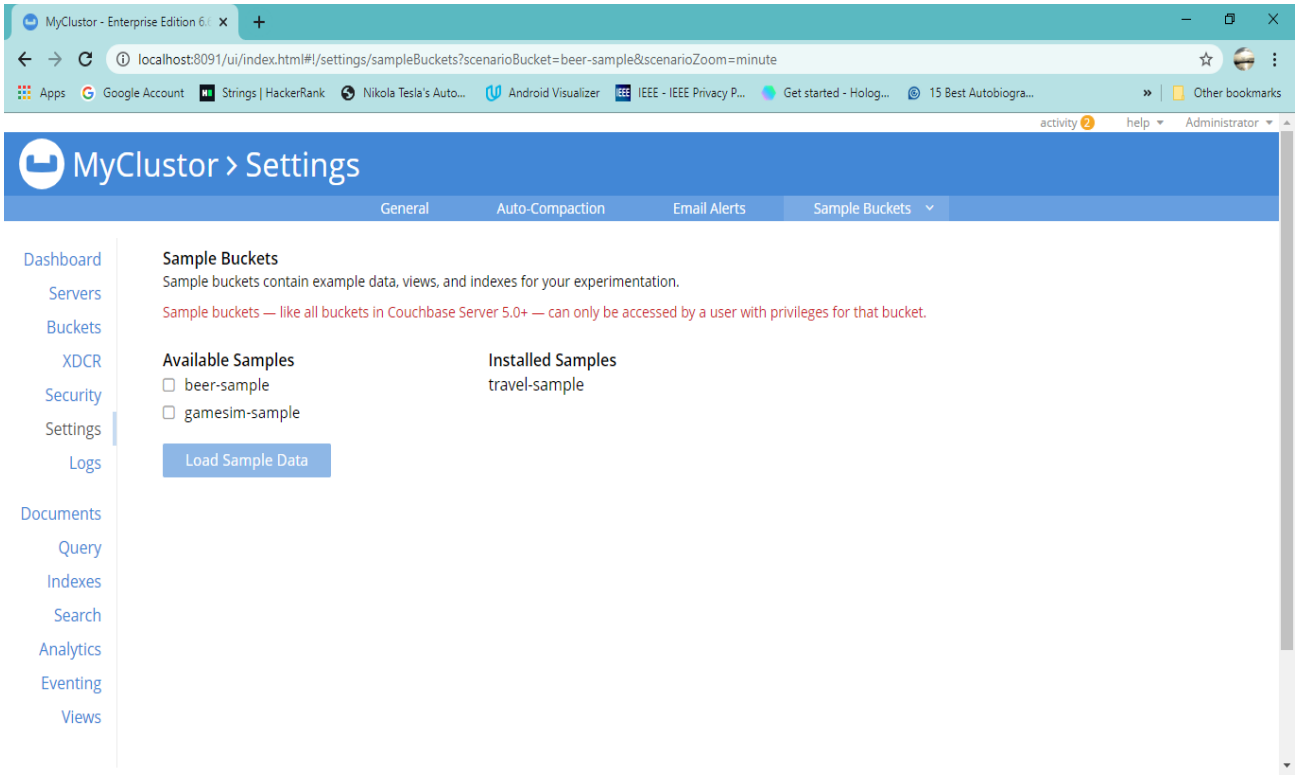
b) Open Command Prompt from the bin folder

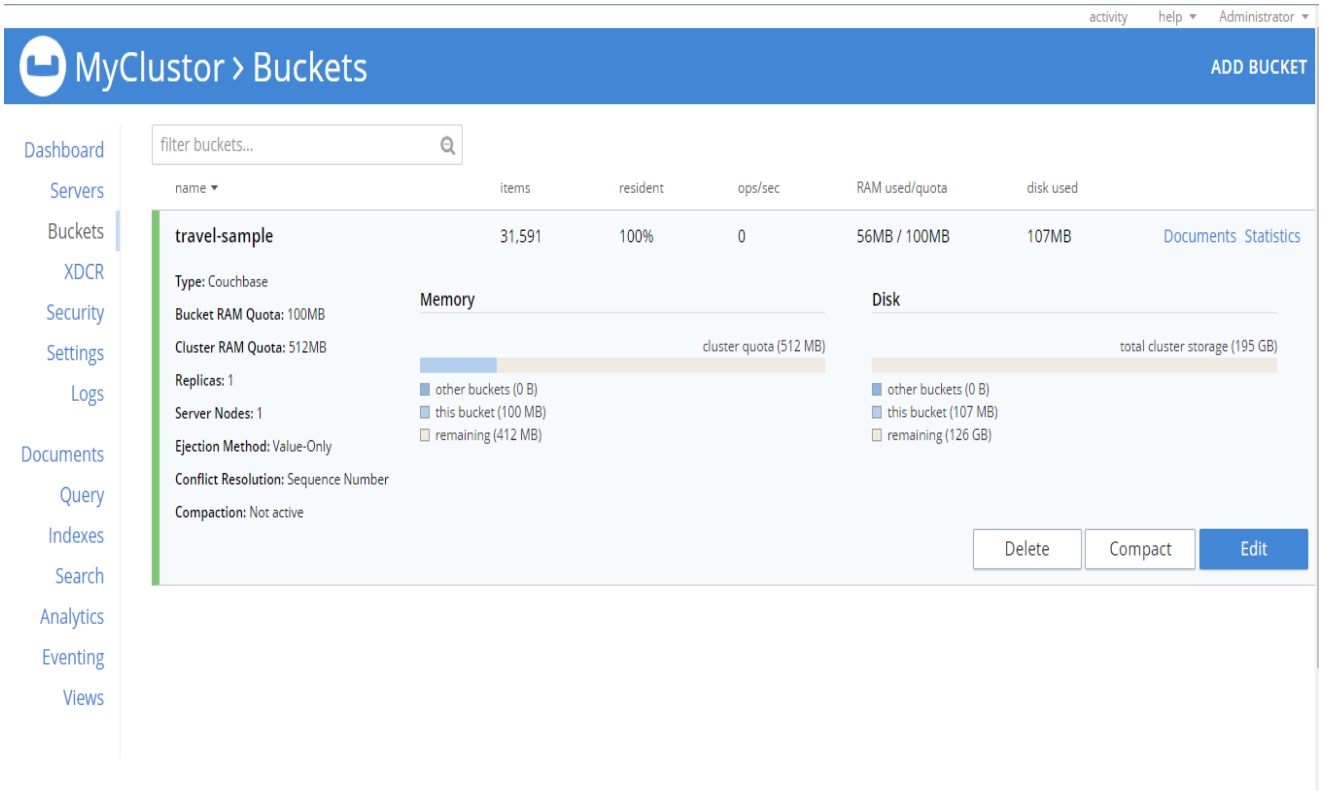
c) Run the below command to export the data from travel-sample bucket: cbexport json -c couchbase://127.0.0.1 -u -p -b travel-sample -o C:/travelSample.json -f lines -t 4

D) Create a new Bucket “NewBucket” & import the data to it: cbimport json -c couchbase://127.0.0.1 -u -p -b NewBucket -f lines -d file://C:/travelSample.json -t 4 -g %id%

E) Once the data is imported, please attach the screenshot. Note: -u --> UserId which you’ve created -p --> password -b --> bucket name

Answer 1





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Answer 2

Query Editor history (55/55)

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

Execute | Explain | Advise | success just now | elapsed: 2.7s | execution: 2.7s | docs: 214 | size: 16291 bytes | format

Query Results — Table | JSON | Tree | Plan | Plan Text | Advice


```
[
{
    "$1": 22910.52133180999,
    "airlineid": "airline_3926"
},
{
    "$1": 167326.74076888536,
    "airlineid": "airline_5067"
},
{
    "$1": 121250.51601142721,
    "airlineid": "airline_3200"
},
```


Query Editor history (56/56)

```
SELECT airlineid, airline, SUM(distance) FROM `travel-sample`
WHERE type = "route" GROUP BY airlineid,airline

```

Execute | Explain | Advise | success just now | elapsed: 1.7s | execution: 1.7s | docs: 223 | size: 22529 bytes | format

Query Results — Table | JSON | Tree | Plan | Plan Text | Advice


```
[
{
    "$1": 75806.20571820374,
    "airline": "BW",
    "airlineid": "airline_1663"
},
{
    "$1": 4239.143522643578,
    "airline": "OV",
    "airlineid": "airline_2218"
},
{
    "$1": 19834.89006126716,
```


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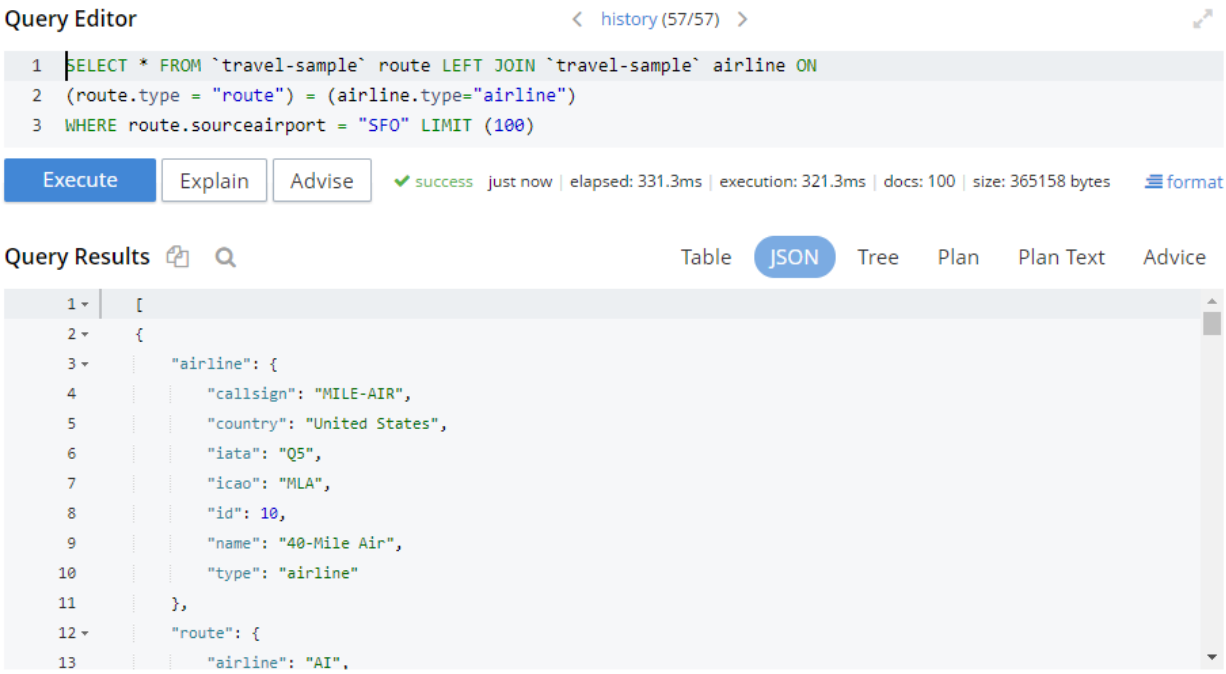
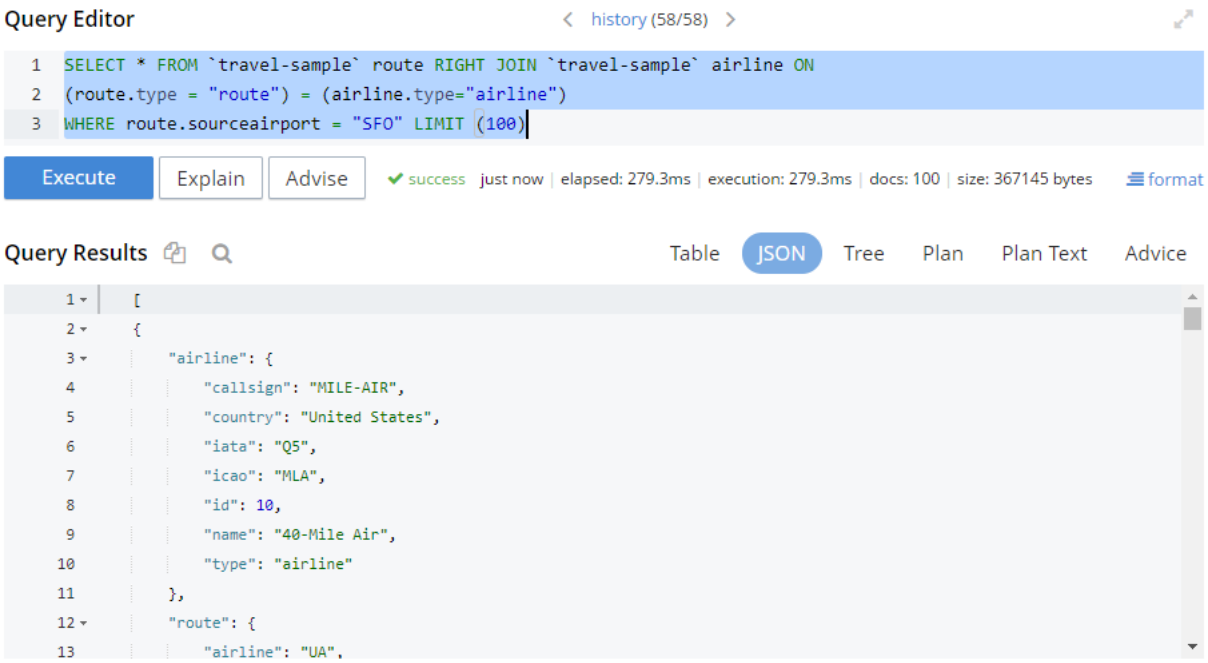
Answer 3

LEFT



RIGHT



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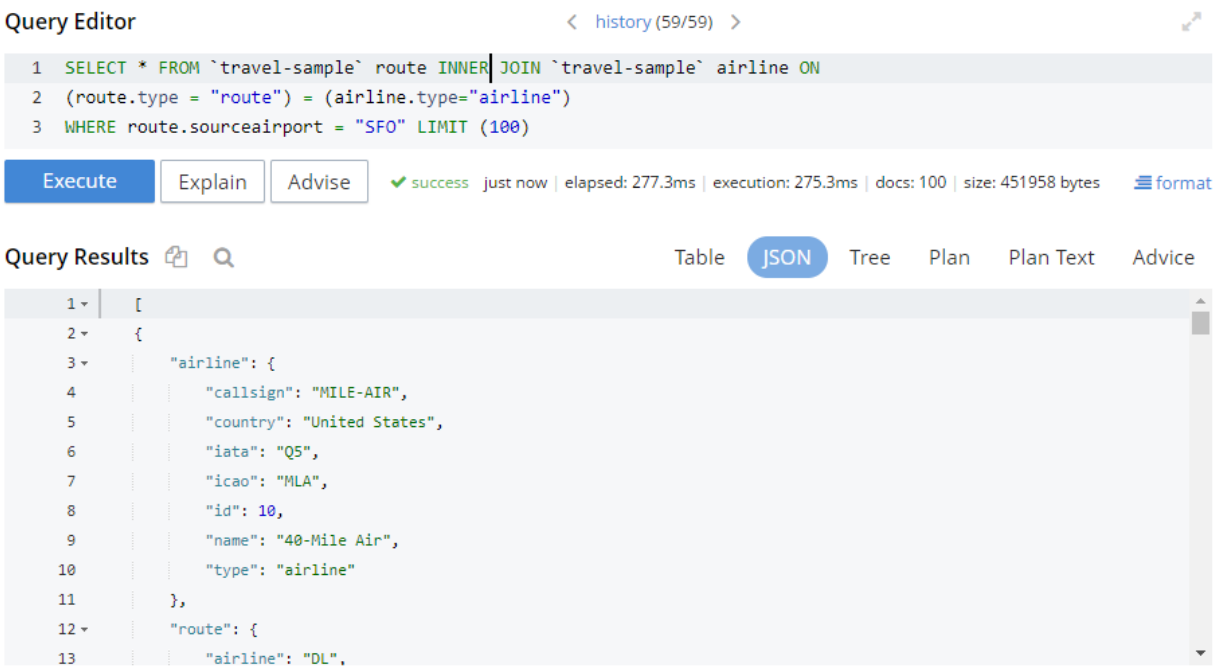
INNER



Answer 4

View Index Code

Map

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

Reduce (built in: _count, _sum, _stats)

```
1 _count
```

Map

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

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

Development Time Subset | Full Cluster Data Set | Show Results

Key	Value
null undefined	22733

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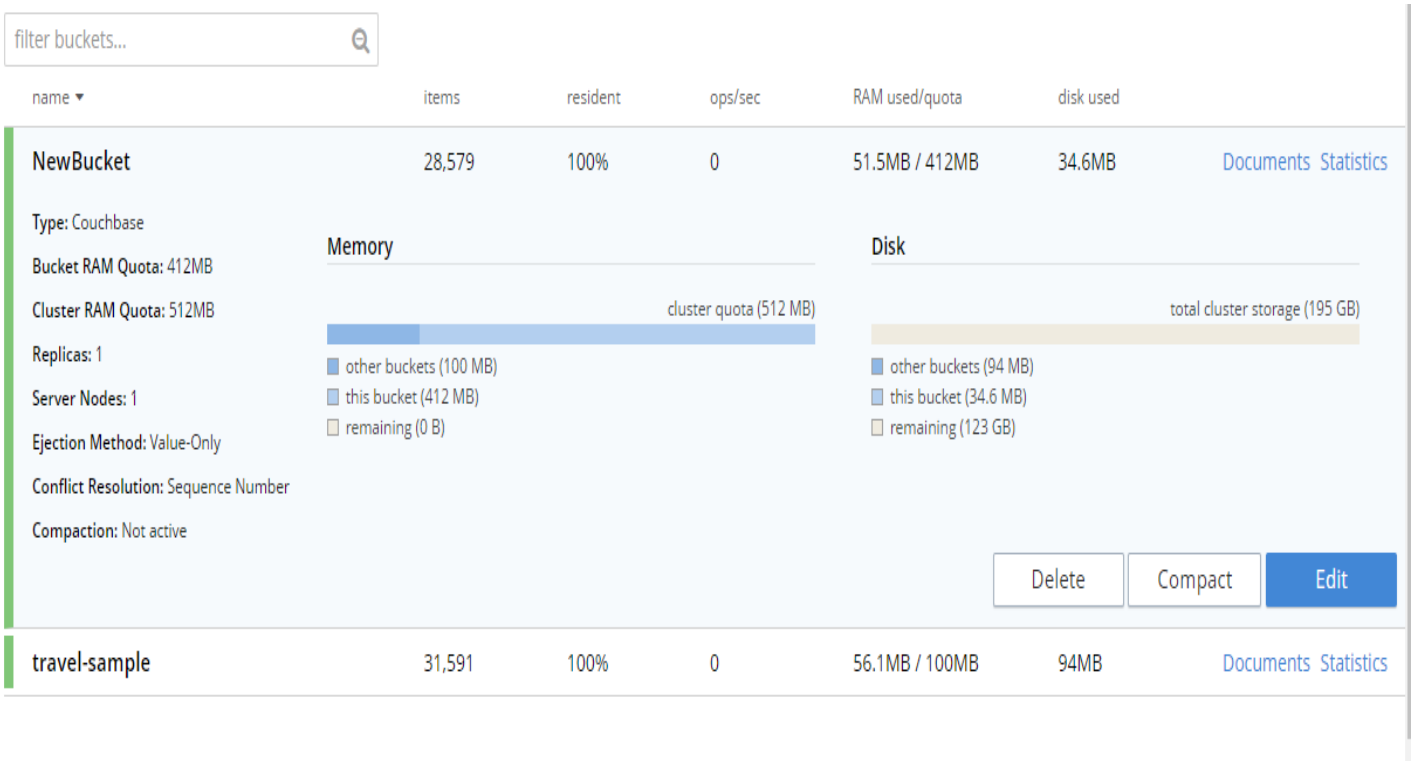
Answer 5

```
C:\Program Files\Couchbase\Server\bin>cbexport json -c couchbase://127.0.0.1 -u Administrator -b travel-sample
 -o D:/travelSample.json -f lines -t 4 -p
Password:
Json exported to `D:/travelSample.json` successfully
Documents exported: 31591 Documents skipped: 0

C:\Program Files\Couchbase\Server\bin>cbimport json -c couchbase://127.0.0.1 -u Administrator  -b NewBucket -f
 lines -d file://D:/travelSample.json -t 4 -g %id% -p
Password:
JSON `file://D:/travelSample.json` imported to `http://127.0.0.1:8091` successfully
Documents imported: 31591 Documents failed: 0
```



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