

1. Import `travel-sample` bucket - **imported**
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 &lt;USER NAME&gt; -p &lt;password&gt; -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 &lt;User Name&gt; -p &lt;password&gt; -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 --&gt; UserId which you've created

-p --&gt; password

-b --&gt; bucket name

1. Import `travel-sample` bucket - **imported**
2. Write a query to get the sum of all distances where type="route" for each airline id.

```
select count(id) TotalRoutes, sum(distance) TotalDistance, airlineid
from `travel-sample` where type="route" group by airlineid;
```

The screenshot shows the Couchbase Query Editor interface. The query editor contains the following SQL query:

```
1 select count(id) TotalRoutes, sum(distance) TotalDistance, airlineid
2 from `travel-sample` where type="route" group by airlineid;
```

The query has been executed successfully, as indicated by the "External Query Advisor" status. The query results are displayed in a table format:

TotalDistance	TotalRoutes	airlineid
37138.108708921485	10	airline_3210
15072.967783630336	8	airline_5179
28463.659477239846	6	airline_5041
187490.70573803212	66	airline_5331

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

Since there so many rows to process, I have added limit 10 in screenshot only.

```
-- 3
-- inner join
SELECT * FROM `travel-sample` lefttab JOIN `travel-
sample` righttab ON lefttab.airlineid = META(righttab).id
```

```

WHERE lefttab.sourceairport = "SFO";
-- left join
SELECT * FROM `travel-sample` lefttab LEFT JOIN `travel-
sample` righttab ON lefttab.airlineid = META(righttab).id
WHERE lefttab.sourceairport = "SFO";
-- right join
SELECT * FROM `travel-sample` lefttab RIGHT JOIN `travel-
sample` righttab ON lefttab.airlineid = META(righttab).id
WHERE lefttab.sourceairport = "SFO";

```

Query Editor < history (12/12) >

```

1 SELECT * FROM `travel-sample` lefttab JOIN `travel-sample` righttab ON lefttab.airlineid = META(righttab).id
2 WHERE lefttab.sourceairport = "SFO" limit 10

```

[Execute](#)
[Explain](#)
[External Query Advisor](#)
✓ success
2 min ago | elapsed: 21.9ms | execution: 21.9ms | docs: 10 | size: 37421 bytes [format](#)

Query Results [🔗](#) [🔍](#) Table **JSON** Tree Plan Plan Text

```

1 [
2   {
3     "lefttab": {
4       "airline": "B6",
5       "airlineid": "airline_3029",
6       "destinationairport": "AUS",
7       "distance": 2416.0035377223094

```

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

```

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

```

AU21 > Views > Views Editing activity help Administrator

Dashboard

Servers

Buckets

XDCR

Security

Settings

Logs

Documents

Query

Indexes

Search

Views

▼ Sample Document: route\_9394

```

1 {
2   "airline": "AF",
3   "airlineid": "airline_137",
4   "destinationairport": "SCL",
5   "distance": 11672.846870214331,
6   "equipment": "772 77W",
7   "id": 9394,
8   "schedule": [{
9     "day": 0,
10    "flight": "AF886",
11    "utc": "21:28:00"
12  }], {
13    "day": 0,
14    "flight": "AF694",

```

Load Another Document

Edit Document

```

1 {
2   "id": "route_9394",
3   "rev": "1-16582e8de64400000000000002000000",
4   "expiration": 0,
5   "flags": 33554432
6 }

```

View Index Code

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&state=false&connection\\_timeout=60000&inclusive\\_end=true&skip=0&full\\_set=](#)

[Development Time Subset](#) [Full Cluster Data Set](#) [Show Results](#)

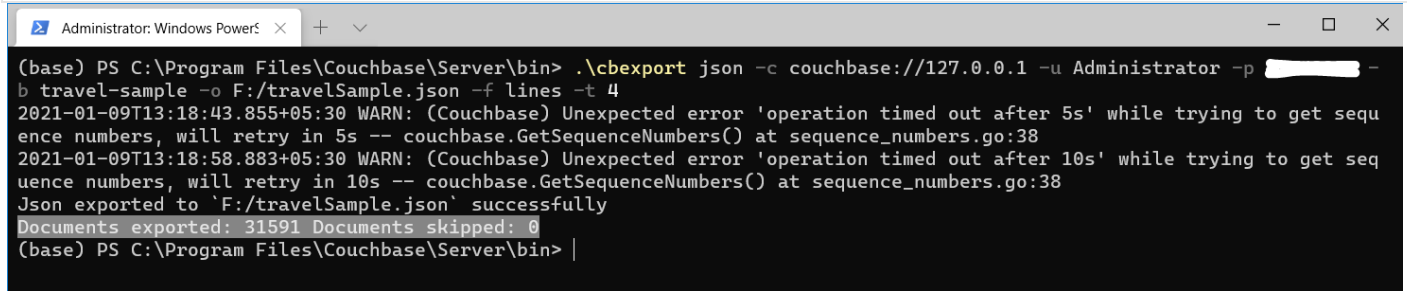
Key	Value
null	
undefined	

34

5. Refer CLI interface try to export the travel sample data. Below are the steps:

- Go to Couchbase Bin folder - C:\Program Files\Couchbase\Server\bin
- Open Command Prompt from the bin folder
- Run the below command to export the data from travel-sample bucket:

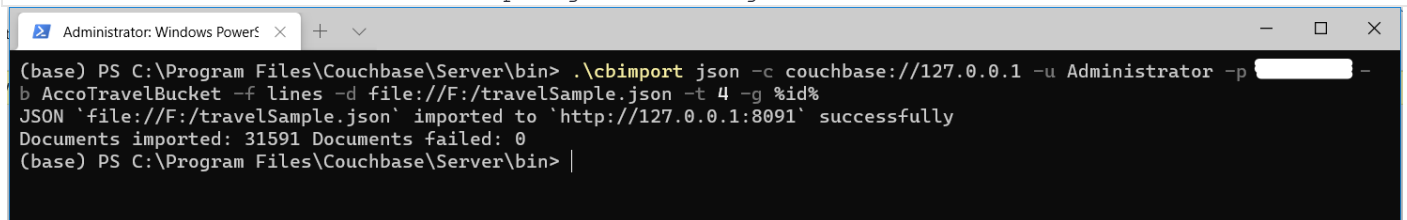
```
cbexport json -c couchbase://127.0.0.1 -u Administrator -p password -b travel-sample -o C:/travelSample.json -f lines -t 4
```



```
(base) PS C:\Program Files\Couchbase\Server\bin> .\cbexport json -c couchbase://127.0.0.1 -u Administrator -p [REDACTED] -b travel-sample -o F:/travelSample.json -f lines -t 4
2021-01-09T13:18:43.855+05:30 WARN: (Couchbase) Unexpected error 'operation timed out after 5s' while trying to get sequence numbers, will retry in 5s -- couchbase.GetSequenceNumbers() at sequence_numbers.go:38
2021-01-09T13:18:58.883+05:30 WARN: (Couchbase) Unexpected error 'operation timed out after 10s' while trying to get sequence numbers, will retry in 10s -- couchbase.GetSequenceNumbers() at sequence_numbers.go:38
Json exported to 'F:/travelSample.json' successfully
Documents exported: 31591 Documents skipped: 0
(base) PS C:\Program Files\Couchbase\Server\bin> |
```

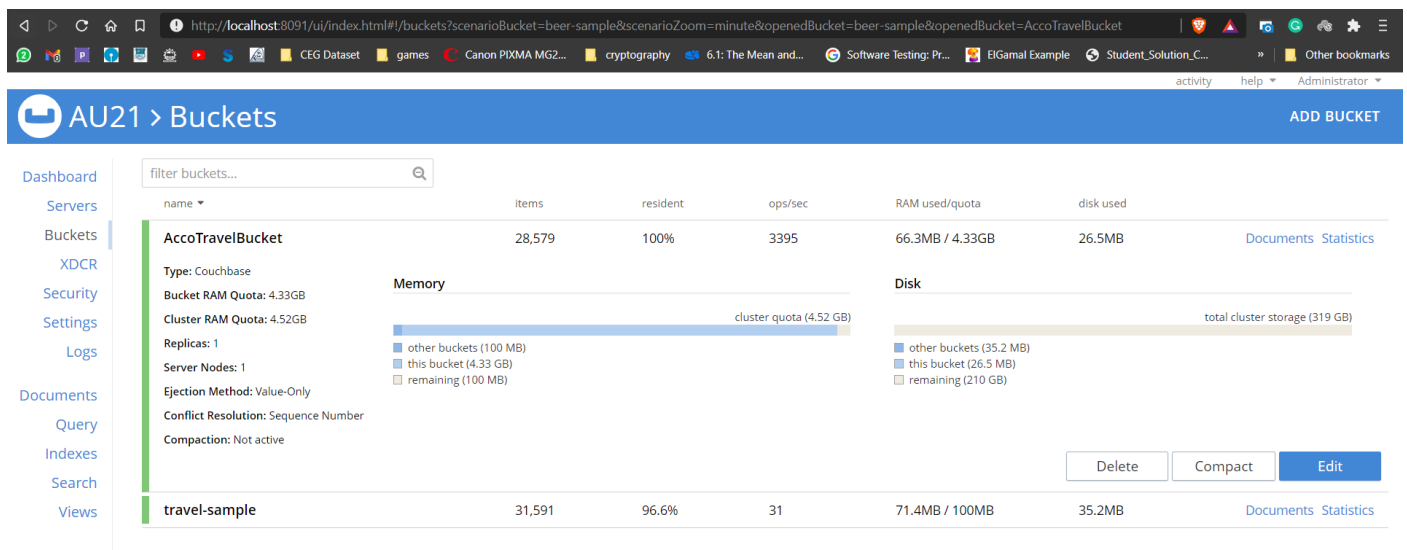
D) Create a new Bucket "NewBucket" import the data to it:

```
cbimport json -c couchbase://127.0.0.1 -u Administrator -p password -b AccoTravelBucket -f lines -d file://C:/travelSample.json -t 4 -g %id%
```



```
(base) PS C:\Program Files\Couchbase\Server\bin> .\cbimport json -c couchbase://127.0.0.1 -u Administrator -p [REDACTED] -b AccoTravelBucket -f lines -d file://F:/travelSample.json -t 4 -g %id%
JSON 'file://F:/travelSample.json' imported to 'http://127.0.0.1:8091' successfully
Documents imported: 31591 Documents failed: 0
(base) PS C:\Program Files\Couchbase\Server\bin> |
```

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



http://localhost:8091/ui/index.html#/buckets?scenarioBucket=beer-sample&scenarioZoom=minute&openedBucket=beer-sample&openedBucket=AccoTravelBucket

activity help Administrator

## AU21 > Buckets

filter buckets...

name	Items	resident	ops/sec	RAM used/quota	disk used	
<b>AccoTravelBucket</b>	28,579	100%	3395	66.3MB / 4.33GB	26.5MB	<a href="#">Documents</a> <a href="#">Statistics</a>
<b>Type:</b> Couchbase						
<b>Bucket RAM Quota:</b> 4.33GB						
<b>Cluster RAM Quota:</b> 4.52GB						
<b>Replicas:</b> 1						
<b>Server Nodes:</b> 1						
<b>Ejection Method:</b> Value-Only						
<b>Conflict Resolution:</b> Sequence Number						
<b>Compaction:</b> Not active						
<b>Memory</b>						
cluster quota (4.52 GB)						
other buckets (100 MB)						
this bucket (4.33 GB)						
remaining (100 MB)						
<b>Disk</b>						
total cluster storage (319 GB)						
other buckets (35.2 MB)						
this bucket (26.5 MB)						
remaining (210 GB)						
						<a href="#">Delete</a> <a href="#">Compact</a> <a href="#">Edit</a>
<b>travel-sample</b>	31,591	96.6%	31	71.4MB / 100MB	35.2MB	<a href="#">Documents</a> <a href="#">Statistics</a>