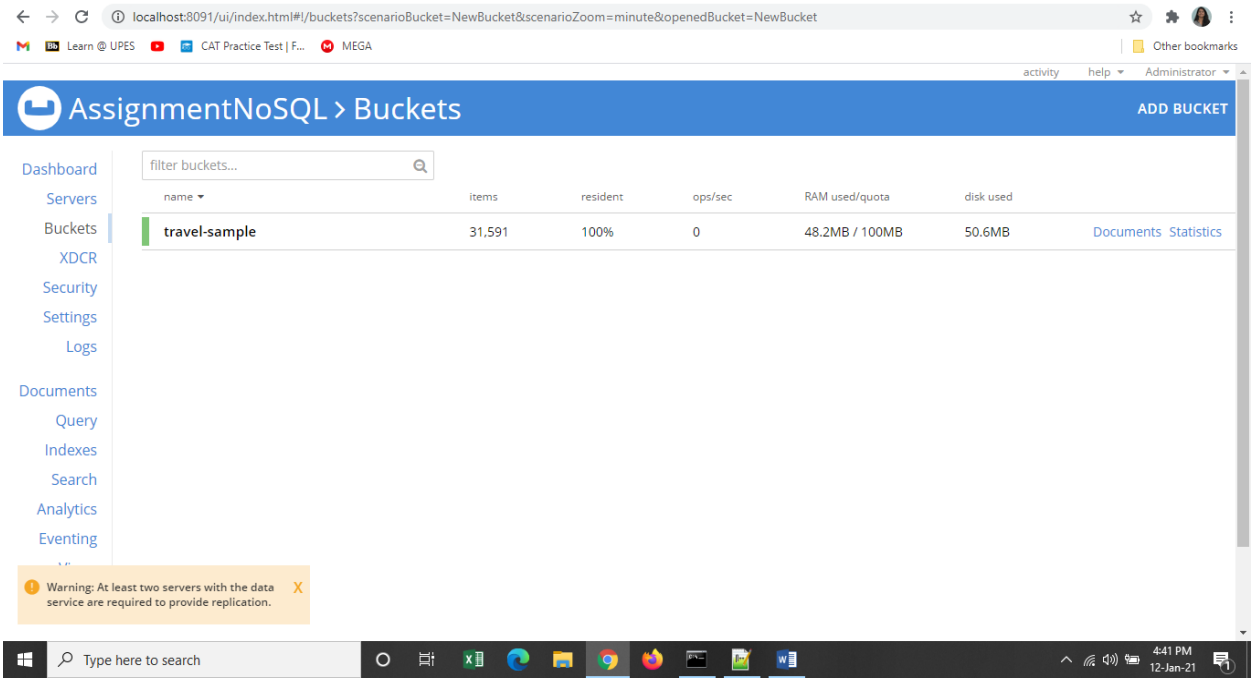
AU 2021 - NoSQL Basics & Fundamentals

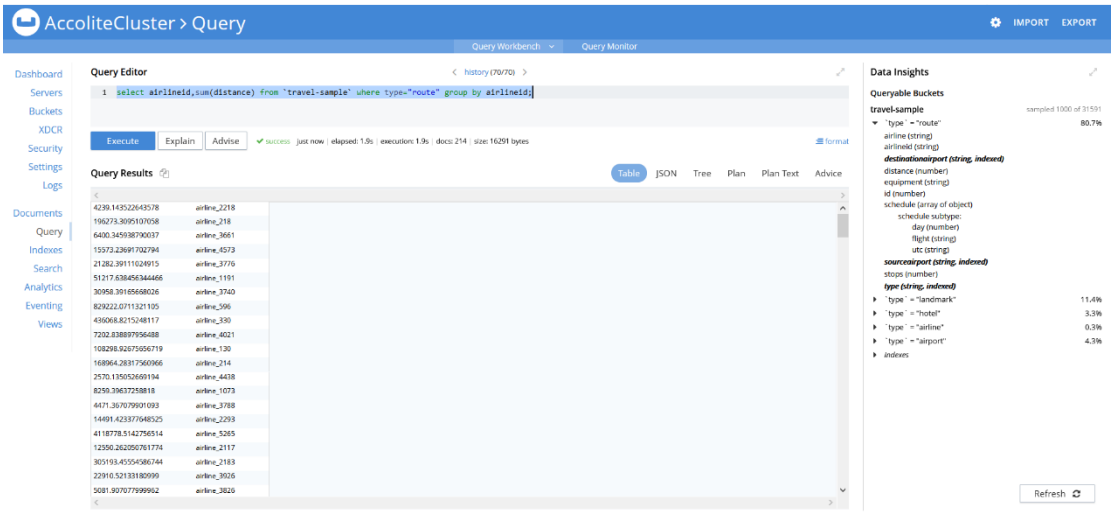
Assignment:

1. Import `travel-sample` bucket



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

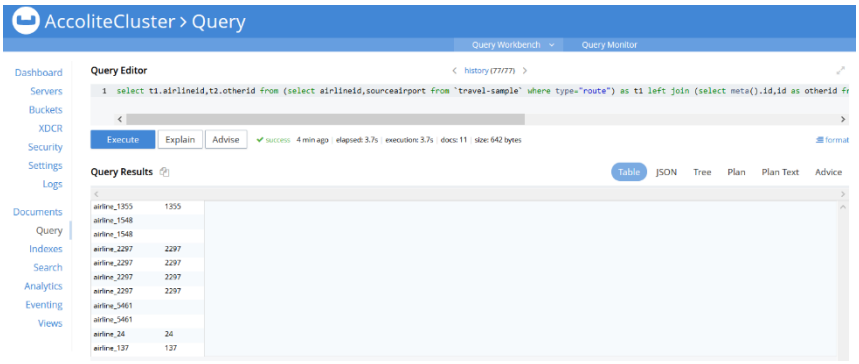
select airlineid,sum(distance) from `travel-sample` where type="route" group by airlineid;



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

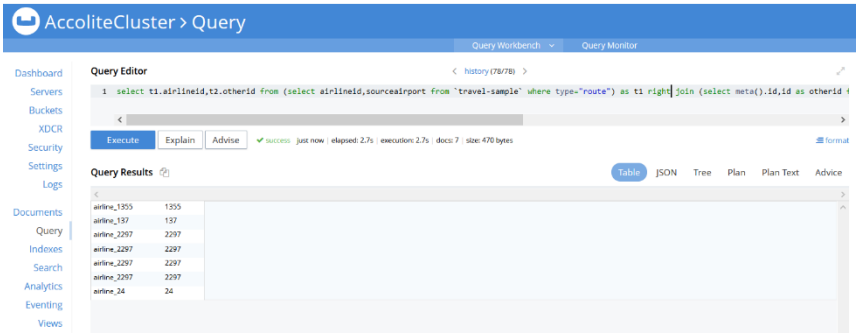
a) Left Join

select t1.airlineid,t2.otherid from (select airlineid,sourceairport from `travel-sample` where type="route") as t1 left join (select meta().id,id as otherid from `travel-sample` where type="airline") as t2 on t1.airlineid=t2.id where t1.sourceairport="SOF";



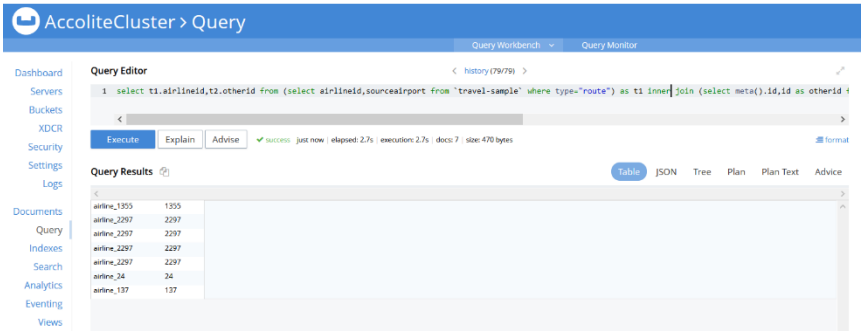
b) Right Join

select t1.airlineid,t2.otherid from (select airlineid,sourceairport from `travel-sample` where type="route") as t1 right join (select meta().id,id as otherid from `travel-sample` where type="airline") as t2 on t1.airlineid=t2.id where t1.sourceairport="SOF";



c) Inner Join

select t1.airlineid,t2.otherid from (select airlineid,sourceairport from `travel-sample` where type="route") as t1 inner join (select meta().id,id as otherid from `travel-sample` where type="airline") as t2 on t1.airlineid=t2.id where t1.sourceairport="SOF";



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

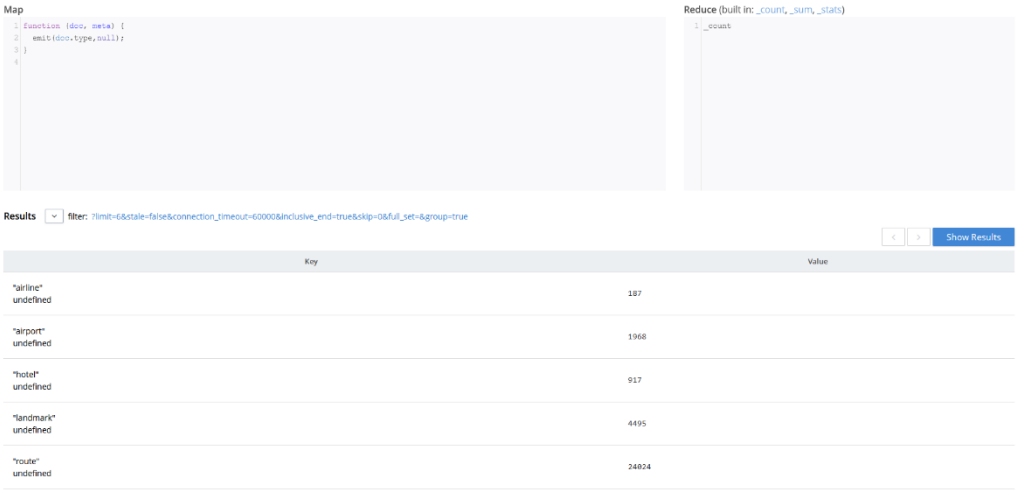
Code in map

```
function (doc,meta){
        emit(doc.type,null);
}
```

// Tick group checkbox in results

Code in reduce

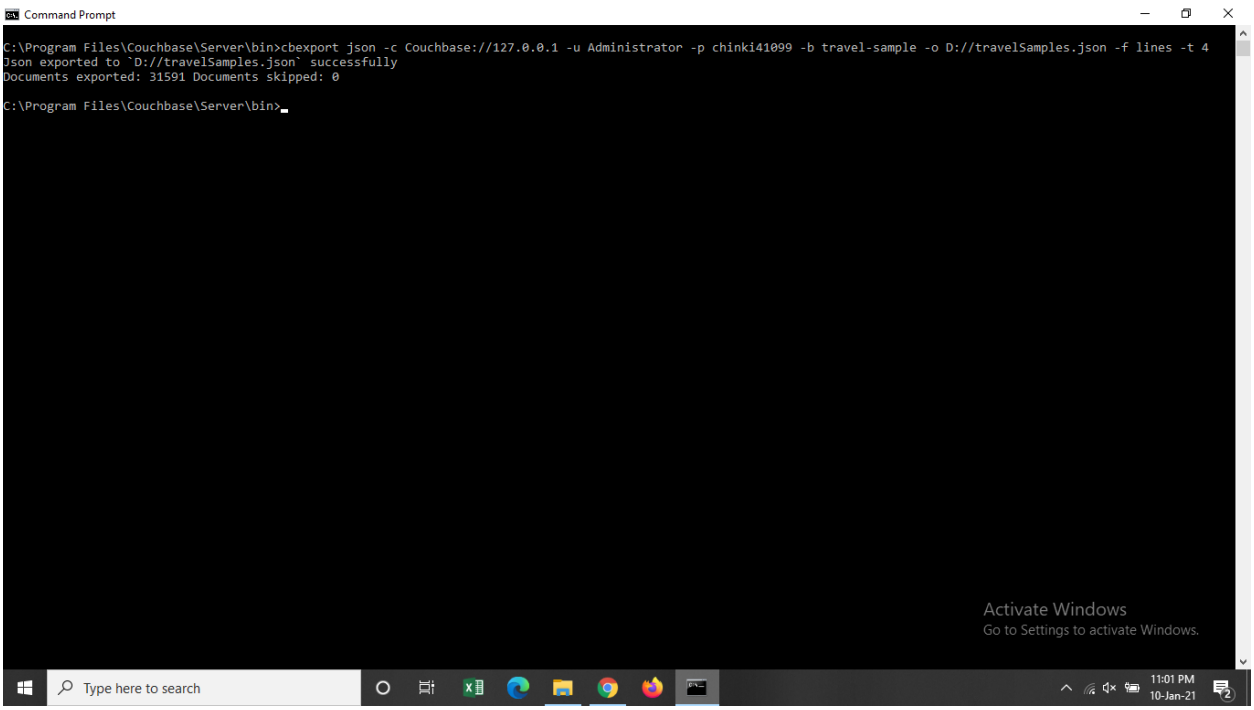
```
        _count
```

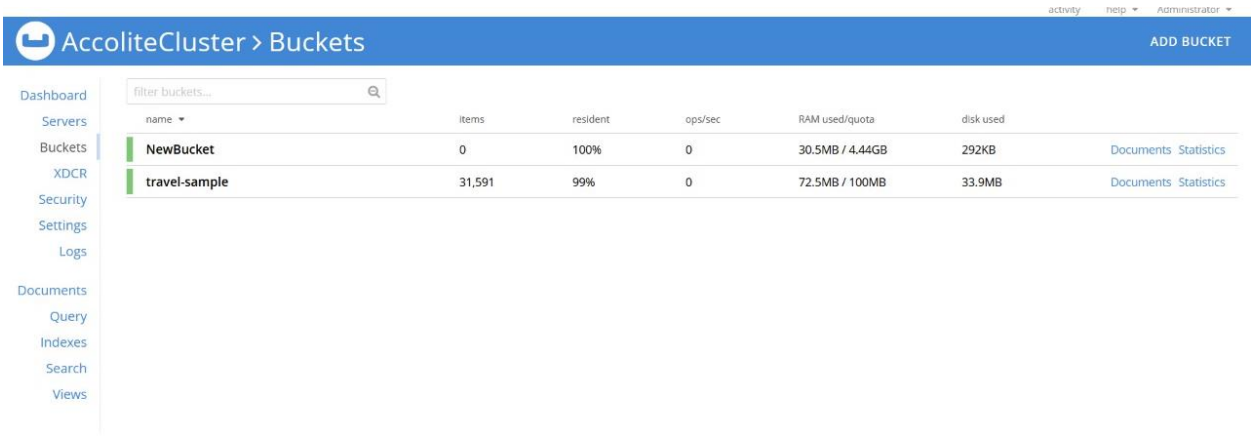


```
{"rows":[
{"key":"airline","value":187},
{"key":"airport","value":1968},
{"key":"hotel","value":917},
{"key":"landmark","value":4495},
{"key":"route","value":24024}
]
}
```


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

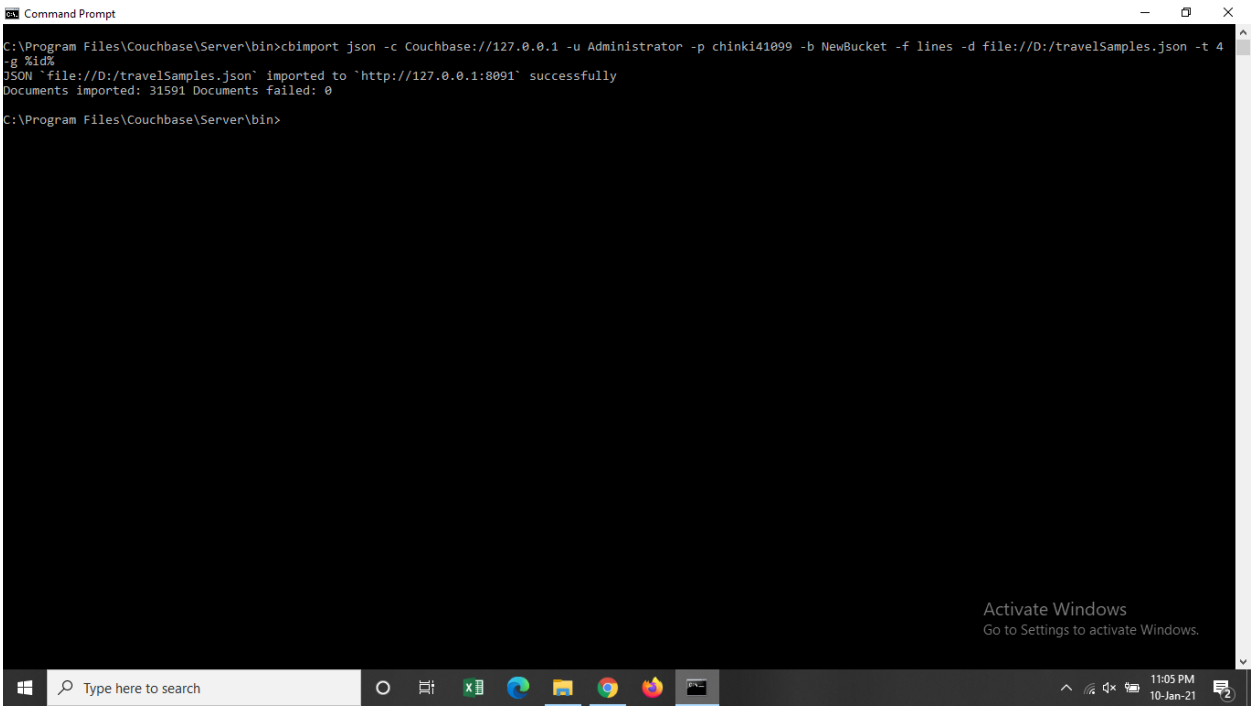


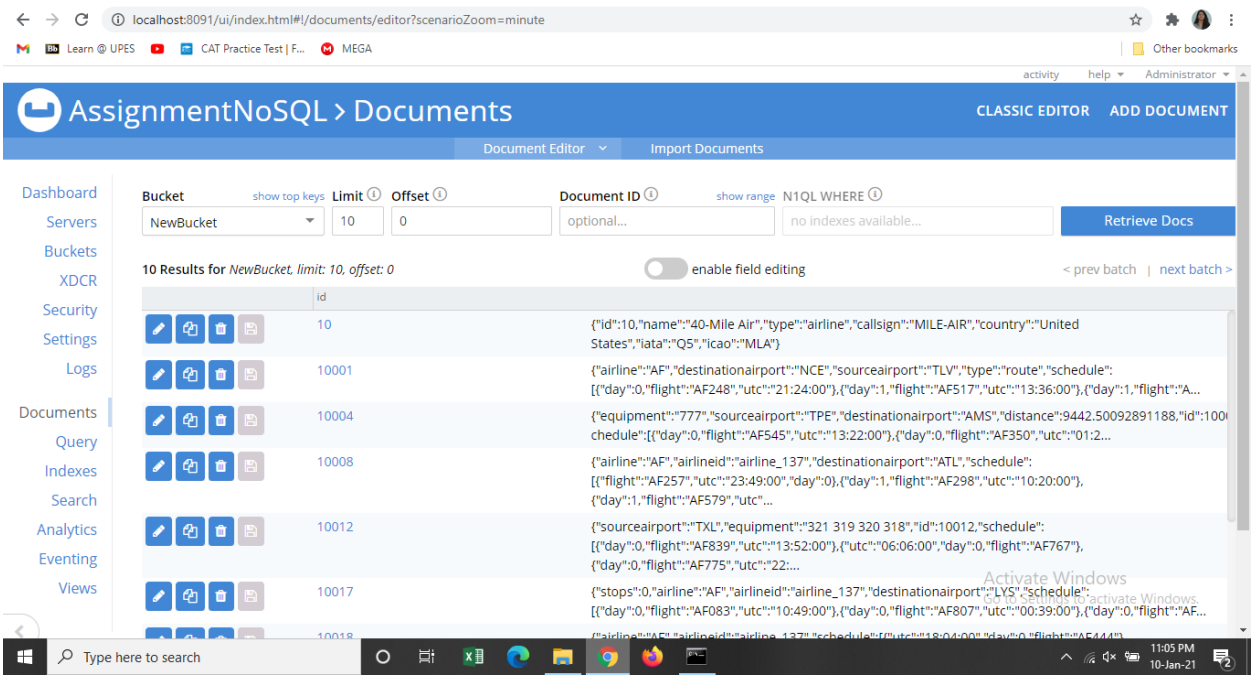


D) Create a new Bucket “NewBucket” & import the data to it:

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.





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