

AU 2021 - NoSQL Basics & Fundamentals

Assignment:

1. Import `travel-sample` bucket

The screenshot shows the AccoliteCluster web interface. The top navigation bar includes 'activity', 'help', and 'Administrator'. The main header is 'AccoliteCluster > Buckets' with an 'ADD BUCKET' button. A sidebar on the left lists navigation options: Dashboard, Servers, Buckets (selected), XDCR, Security, Settings, Logs, Documents, Query, Indexes, Search, and Analytics. The main content area displays a table of buckets. The 'travel-sample' bucket is highlighted, showing 31,592 items, 100% resident, 0 ops/sec, 55.9MB / 100MB RAM used/quota, and 37.9MB disk used. Links for 'Documents' and 'Statistics' are provided for the selected bucket.

name	items	resident	ops/sec	RAM used/quota	disk used
travel-sample	31,592	100%	0	55.9MB / 100MB	37.9MB

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

The screenshot shows the Query Editor interface. The query text is: `1 SELECT airlineid , SUM(distance) AS distance FROM `travel-sample` WHERE type='route' GROUP BY airlineid ;`. Below the query editor, there are buttons for 'Execute', 'Explain', and 'Advise'. The status bar indicates 'success just now | elapsed: 5.9s | execution: 5.9s | docs: 214 | size: 17575 bytes'. The 'Query Results' section shows a table with two columns: 'airlineid' and 'distance'. The results are displayed in a table format, with the 'Table' tab selected. The table contains 15 rows of data, showing the sum of distances for each airline id where the type is 'route'.

Query Editor

```
1 SELECT airlineid , SUM(distance) AS distance FROM `travel-sample` WHERE type='route' GROUP BY airlineid ;
```

Execute Explain Advise success just now | elapsed: 5.9s | execution: 5.9s | docs: 214 | size: 17575 bytes

Query Results

airlineid	distance
airline_1682	14244.039128167078
airline_5496	6420.898398278695
airline_324	347965.52063718165
airline_5347	721869.8731022599
airline_2688	290416.19255017705
airline_4319	157871.12169602897
airline_5179	15072.967783630336
airline_1316	1016607.16456096
airline_3871	122860.66435480649
airline_2439	95930.6657356799
airline_3026	651416.9639648107
airline_1073	8259.39637258818
airline_879	40698.214279087886

AU 2021 - NoSQL Basics & Fundamentals

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

Query Editor < history(17/17) >

```
1 SELECT *
2 FROM `travel-sample` AS route
3 INNER JOIN `travel-sample` AS airline ON route.airlineid = META(airline).id
4 WHERE route.sourceairport="SFO";
```

Execute Explain Advise ✓ success just now | elapsed: 317.2ms | execution: 316.2ms | docs: 183 | size: 669953 bytes [format](#)

Query Results [Table](#) JSON Tree Plan Plan Text Advice

airline							route		
callsign	country	iata	icao	id	name	type	airline	airlineid	destination
JETBLUE	United States	B6	JBU	3029	JetBlue Airways	airline	B6	airline_3029	AUS

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

View Index Code Make Copy Save Changes

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=

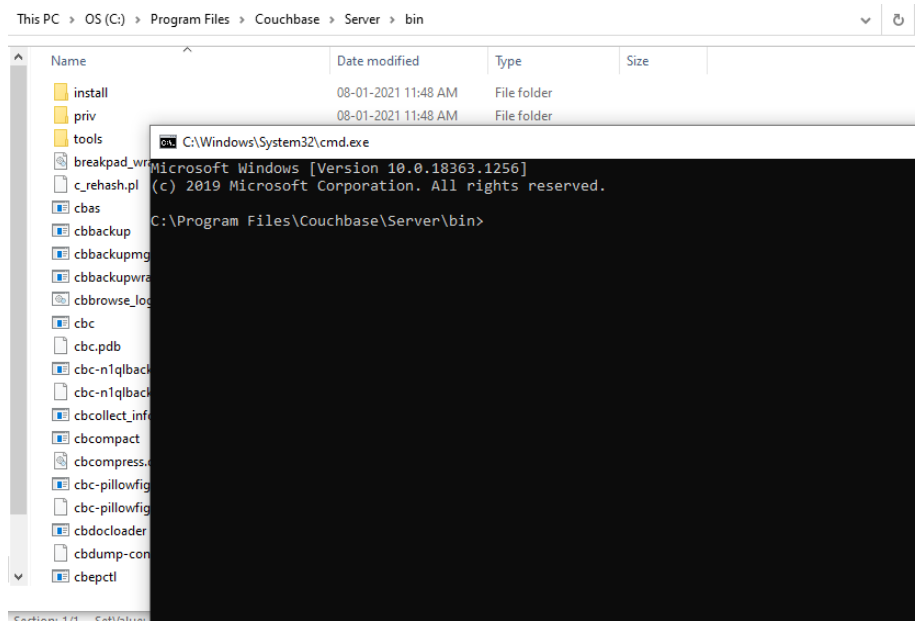
Development Time Subset Full Cluster Data Set < > Show Results

Key	Value
null	38
undefined	

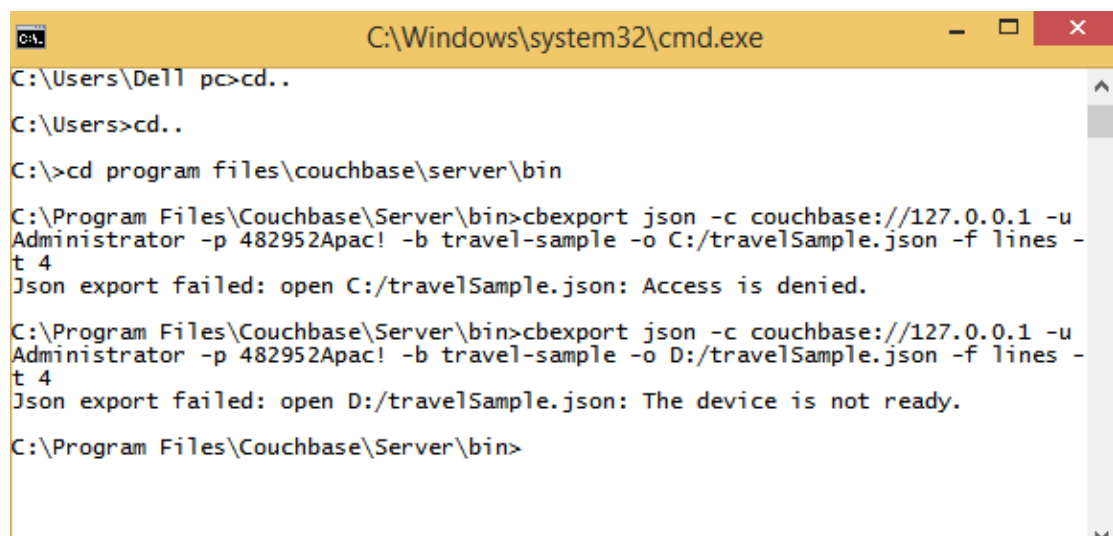
5. Refer CLI interface & try to export the travel sample data. Below are the steps:

- Go to Couchbase Bin folder - C:\Program Files\Couchbase\Server\bin
- Open Command Prompt from the bin folder

AU 2021 - NoSQL Basics & Fundamentals



- 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