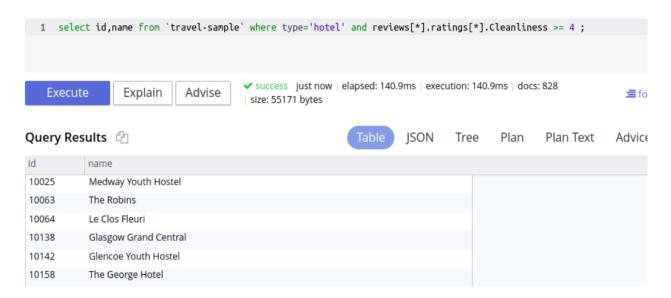# NoSQL Basics/Fundamentals with Couchbase Assignment
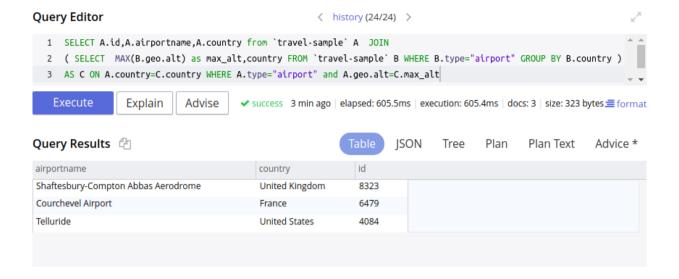
1. Find all hotels with ratings for Cleanliness>=4
Solution:

select id,name from `travel-sample`
where type='hotel'
and reviews[*].ratings[*].Cleanliness >= 5

2. Find the highest airport in each country.
Solution:

SELECT A.id,A.airportname,A.country from `travel-sample` A
JOIN
(SELECT MAX(B.geo.alt) as max_alt,country FROM `travel-sample` B
WHERE B.type="airport" GROUP BY B.country) AS C
ON A.country=C.country
WHERE A.type="airport" and A.geo.alt=C.max_alt

```
1   SELECT A.id,A.airportname,A.country from `travel-sample` A  JOIN
2   ( SELECT  MAX(B.geo.alt) as max_alt,country FROM `travel-sample` B WHERE B.type="airport" GROUP BY B.country )
3   AS C ON A.country=C.country WHERE A.type="airport" and A.geo.alt=C.max_alt
```

Execute | Explain | Advise   ✔ success   3 min ago | elapsed: 605.5ms | execution: 605.4ms | docs: 3 | size: 323 bytes ≡ format

Query Results   Table JSON Tree Plan Plan Text Advice *

airportname	country	id
Shaftesbury-Compton Abbas Aerodrome	United Kingdom	8323
Courchevel Airport	France	6479
Telluride	United States	4084

3. Find all routes operated by Air France from the city of Marseille. (use field faa)
Solution:

SELECT id as route_ids from `travel-sample` B
WHERE B.airline='AF'
and B.sourceairport IN
(SELECT RAW A.faa from `travel-sample` A WHERE type='airport' and city='Marseille')

```
1   SELECT id as route_ids from `travel-sample` B WHERE B.airline='AF'
2   and B.sourceairport IN  (SELECT RAW A.faa from `travel-sample` A WHERE type='airport' and city='Marseille')
```

Execute | Explain | Advise   ✔ success   just now | elapsed: 3.6s | execution: 3.6s | docs: 25 | size: 825 bytes   ≡ format

Query Results   Table JSON Tree Plan Plan Text Advice *

route_ids
9734
9735
9736
9737
9738
9739
9740
9741
9742
9743
9744
9745