

NoSQL Basics/Fundamentals

Task Submission

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1. Find all hotels with ratings for Cleanliness>=4

Query 1

This query displays the document id, name and address of each hotel which has at-least one review in which the rating of Cleanliness>=4. Hotels which have no reviews are not included in this list.

```
select meta().id,name,address from `travel-sample` where type='hotel' and ANY i IN reviews SATISFIES i.ratings.Cleanliness>=4 END;
```

Query Editor

< history (38/38) >

```
1 select meta().id,name,address from `travel-sample` where type="hotel"
2 and ANY i IN reviews SATISFIES i.ratings.Cleanliness>=4 END;
```

Execute

Explain

Advise

✓ success just now | elapsed: 329.3ms | execution: 329.2ms | docs: 804 | size: 94097 bytes

format

Query Results

Table

JSON

Tree

Plan

Plan Text

Advice *

<			>
Capstone Road, ME7 3JE	hotel_10025	Medway Youth Hostel	^
6 rue aux Juifs	hotel_10063	The Robins	
5 rue de la Dime	hotel_10064	Le Clos Fleuri	
Glencoe, PA39 4HX	hotel_10142	Glencoe Youth Hostel	
Norfolk Street	hotel_10158	The George Hotel	
Woodhead Road	hotel_10159	Windy Harbour Farm Hotel	
28 Woodhead Road	hotel_10160	Avondale Guest House	
102 Church Street, Old Glossop	hotel_10161	The Bulls Head	
8301 Hollister Ave	hotel_10180	Bacara Resort & Spa	
Middleton, Rhossili, Swansea SA3 1PL	hotel_10289	Rhossili Bunkhouse	
Llanrhidian, Swansea, SA3 1ER	hotel_10290	Hill House Holiday Cottage	v
<			>

2. Find the highest airport in each country.

Query 2

This query displays each country's name, the name of the highest airport in that country and its corresponding altitude.

```
select country,  
(array i.airportname for i in array_agg({"alt": geo.alt, airportname}))  
when i.alt = altitude end) as highest_airport_name, altitude  
from `travel-sample`  
where type = "airport"  
group by country  
letting altitude = max(geo.alt);
```

Query Editor

< history (35/35) >

```
1 select country,  
2 (array i.airportname for i in array_agg({"alt": geo.alt, airportname}))  
3 when i.alt = altitude end) as highest_airport_name, altitude  
4 from `travel-sample`  
5 where type = "airport"  
6 group by country  
7 letting altitude = max(geo.alt);
```

Execute

Explain

Advise

✓ success just now | elapsed: 359.6ms | execution: 359.5ms | docs: 3 | size: 439 bytes

format

Query Results

Table

JSON

Tree

Plan

Plan Text

Advice

811	United Kingdom	Shaftesbury-Compton Abbas Aerodrome
6588	France	Courchevel Airport
9078	United States	Telluride

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

I have written 2 queries for the given problem.

Query 3.1

This query assumes that 'iata' is a candidate key for every airline and uses 'airline' field in routes as a reference to 'iata' field in airlines.

```
select meta().id from `travel-sample` A where A.type='route' and
A.airline IN (select raw iata from `travel-sample` B where
B.type='airline' and B.name='Air France') and
A.sourceairport IN (select raw faa from `travel-sample` C where
C.type='airport' and C.city='Marseille');
```

Query Editor

< history (36/36) >

```
1 select meta().id from `travel-sample` A where A.type='route' and
2 A.airline IN (select raw iata from `travel-sample` B where B.type='airline' and B.name='Air France') and
3 A.sourceairport IN (select raw faa from `travel-sample` C where C.type='airport' and C.city='Marseille');
```

Execute

Explain

Advise

✓ success just now | elapsed: 6.6s | execution: 6.6s | docs: 25 | size: 850 bytes

format

Query Results

Table

JSON

Tree

Plan

Plan Text

Advice *

route_9734
route_9735
route_9736
route_9737
route_9738
route_9739
route_9740
route_9741
route_9742
route_9743
route_9744

Query 3.2

This query uses 'airlineid' field in routes as a reference to the document ids of airlines.

```
select meta().id from `travel-sample` A where A.type='route' and
A.airlineid IN (select raw meta().id from `travel-sample` B where
B.type='airline' and B.name='Air France') and
A.sourceairport IN (select raw faa from `travel-sample` C where
C.type='airport' and C.city='Marseille');
```

Query Editor

< history (40/40) >

```
1 select meta().id from `travel-sample` A where A.type='route' and
2 A.airlineid IN (select raw meta().id from `travel-sample` B where B.type='airline' and B.name='Air France') and
3 A.sourceairport IN (select raw faa from `travel-sample` C where C.type='airport' and C.city='Marseille');
```

Execute

Explain

Advise

✓ success just now | elapsed: 6.4s | execution: 6.4s | docs: 25 | size: 850 bytes

format

Query Results

Table

JSON

Tree

Plan

Plan Text

Advice *

route_9734
route_9735
route_9736
route_9737
route_9738
route_9739
route_9740
route_9741
route_9742
route_9743
route_9744
route_9745
route_9746
route_9747