

Workshop Screenshot Files of NoSQL databases

ISSUE:Homework Assignment
[HW]-Workshop-Introduction -to-NoSQL

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Linkedin Profile:ambedkar1985@gmail.com

1.Screenshot of Create Astra instance:Hands on #1 Astra DB Account

The screenshot shows the DataStax Astra Dashboard for user K S A R AMBEDKAR. The current organization is ambedkar1985@gmail.com. The dashboard displays the following information:

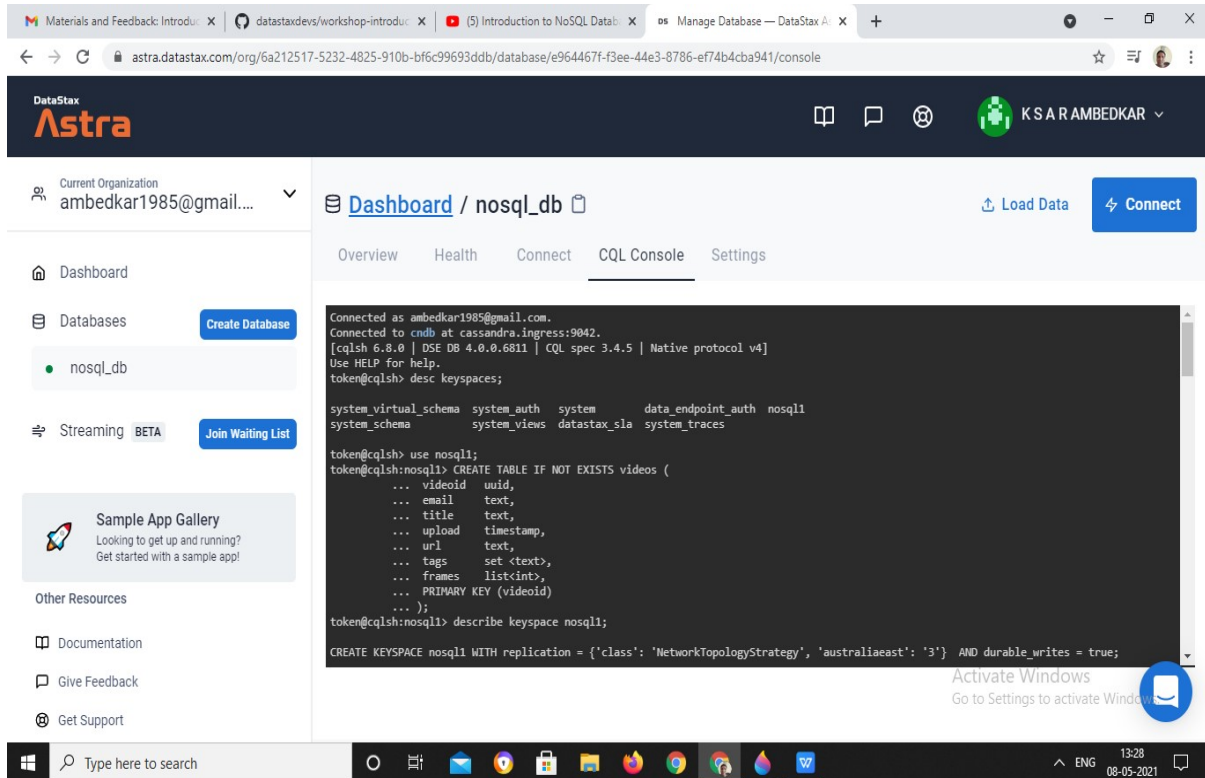
- Current Plan:** Pay as you go
- Credits Remaining:** \$25.00 (with a progress bar showing \$0.00 spent)
- Usage For Current Billing Period:**
 - Read Requests: 3
 - Write Requests: 4
 - Storage Consumed: 0.00
 - Data Transfer: 0.00
- Databases (1):** A table listing the database 'nosql_db' with 3 reads, 4 writes, 0.00 storage, 0.00 data transfer, and a cost of \$0.00. The status is 'Active'.

The screenshot shows the DataStax Astra Dashboard for a specific database instance named 'nosql_db'. The dashboard displays the following information:

- Usage For Current Billing Period for nosql_db:** Status is Active.
 - Read Requests: 3
 - Write Requests: 4
 - Storage Consumed: 0.00
 - Data Transfer: 0.00
 - Database Cost: \$0.00
- Regions:** A table listing the region 'australiaeast' on the 'AZURE' provider with 1 capacity unit and cluster ID 'e964467f-f3ee-44e3-8786-ef74b4cba941'.
- Keyspaces:** A section for managing keyspace applications.

2. Screenshot of Tabular Database: Hands on #2 Tabular Databases

2a. Describing keyspace



The screenshot shows the DataStax Astra console interface. The user is logged in as 'K S A R AMBEDKAR'. The current organization is 'ambedkar1985@gmail...'. The dashboard shows a database named 'nosql_db'. The CQL Console is active, displaying the following commands and output:

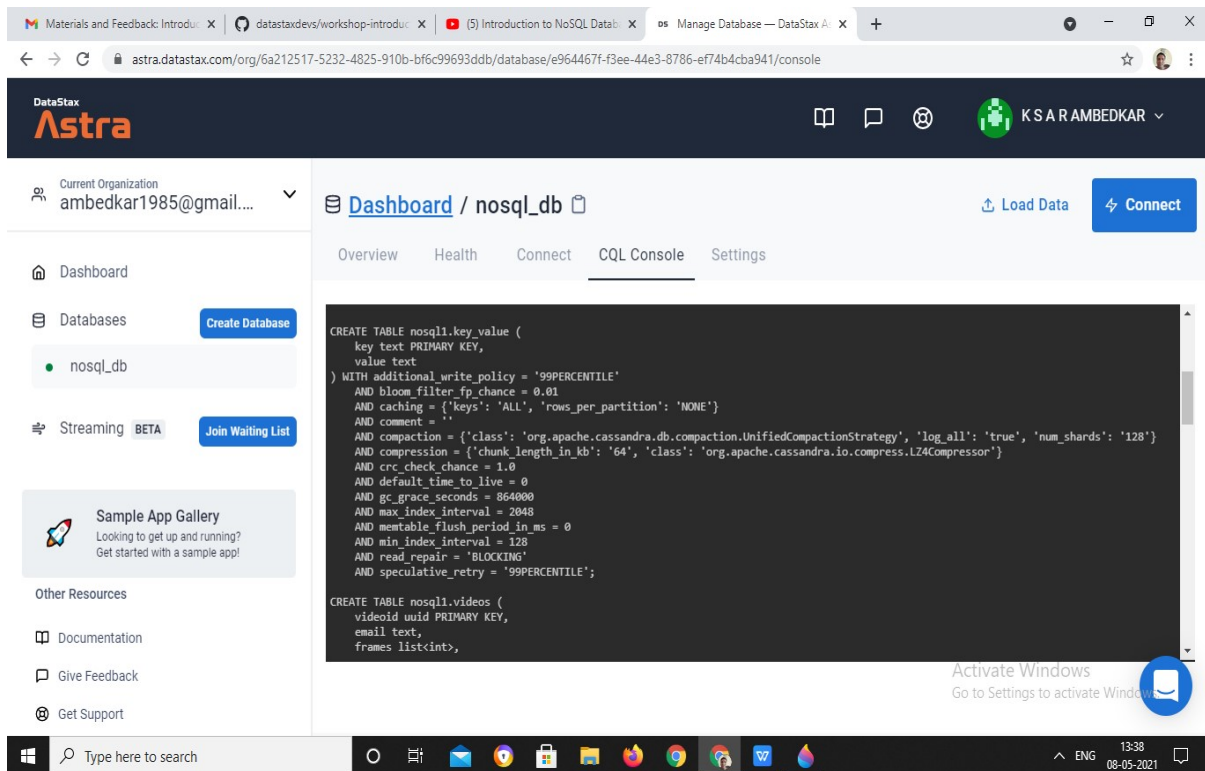
```
Connected as ambedkar1985@gmail.com.
Connected to cndb at cassandra.ingress:9042.
[cqlsh 6.8.0 | DSE DB 4.0.0.6811 | CQL spec 3.4.5 | Native protocol v4]
Use HELP for help.
token@cqlsh> desc keyspaces;

system_virtual_schema  system_auth  system  data_endpoint_auth  nosql1
system_schema          system_views  datastax_sla  system_traces

token@cqlsh> use nosql1;
token@cqlsh:nosql1> CREATE TABLE IF NOT EXISTS videos (
...  videoid  uuid,
...  email   text,
...  title   text,
...  upload  timestamp,
...  url     text,
...  tags   set<text>,
...  frames list<int>,
...  PRIMARY KEY (videoid)
... );
token@cqlsh:nosql1> describe keyspace nosql1;

CREATE KEYSPACE nosql1 WITH replication = {'class': 'NetworkTopologyStrategy', 'australiaeast': '3'} AND durable_writes = true;
```

2b. Create table



The screenshot shows the DataStax Astra console interface. The user is logged in as 'K S A R AMBEDKAR'. The current organization is 'ambedkar1985@gmail...'. The dashboard shows a database named 'nosql_db'. The CQL Console is active, displaying the following commands and output:

```
CREATE TABLE nosql1.key_value (
  key text PRIMARY KEY,
  value text
) WITH additional_write_policy = '99PERCENTILE'
AND bloom_filter_fp_chance = 0.01
AND caching = {'keys': 'ALL', 'rows_per_partition': 'NONE'}
AND comment = ''
AND compaction = {'class': 'org.apache.cassandra.db.compaction.UnifiedCompactionStrategy', 'log_all': 'true', 'num_shards': '128'}
AND compression = {'chunk_length_in_kb': '64', 'class': 'org.apache.cassandra.io.compress.LZ4Compressor'}
AND crc_check_chance = 1.0
AND default_time_to_live = 0
AND gc_grace_seconds = 864000
AND max_index_interval = 2048
AND memtable_flush_period_in_ms = 0
AND min_index_interval = 128
AND read_repair = 'BLOCKING'
AND speculative_retry = '99PERCENTILE';

CREATE TABLE nosql1.videos (
  videoid uuid PRIMARY KEY,
  email text,
  frames list<int>,
);
```

Materials and Feedback: Introdu... | datastaxdevs/workshop-introdu... | (5) Introduction to NoSQL Datab... | Manage Database — DataStax A... | +

astradatastax.com/org/6a212517-5232-4825-910b-bf6c99693ddb/database/e964467f-f3ee-44e3-8786-ef74b4cba941/console

DataStax Astra K S A R AMBEDKAR

Current Organization: ambedkar1985@gmail...

Dashboard / nosql_db

Overview Health Connect CQL Console Settings

```
p21 text,
p22 text,
p23 text,
p24 text,
p25 text,
p26 text,
p27 text,
p28 text,
p29 text,
p30 text,
p31 text,
p32 text,
p33 text,
p34 text,
p35 text,
p36 text,
p37 text,
p38 text,
p39 text,
p40 text,
p41 text,
p42 text,
p43 text,
```

Activate Windows
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Materials and Feedback: Introdu... | datastaxdevs/workshop-introdu... | (5) Introduction to NoSQL Datab... | Manage Database — DataStax A... | +

astradatastax.com/org/6a212517-5232-4825-910b-bf6c99693ddb/database/e964467f-f3ee-44e3-8786-ef74b4cba941/console

DataStax Astra K S A R AMBEDKAR

Current Organization: ambedkar1985@gmail...

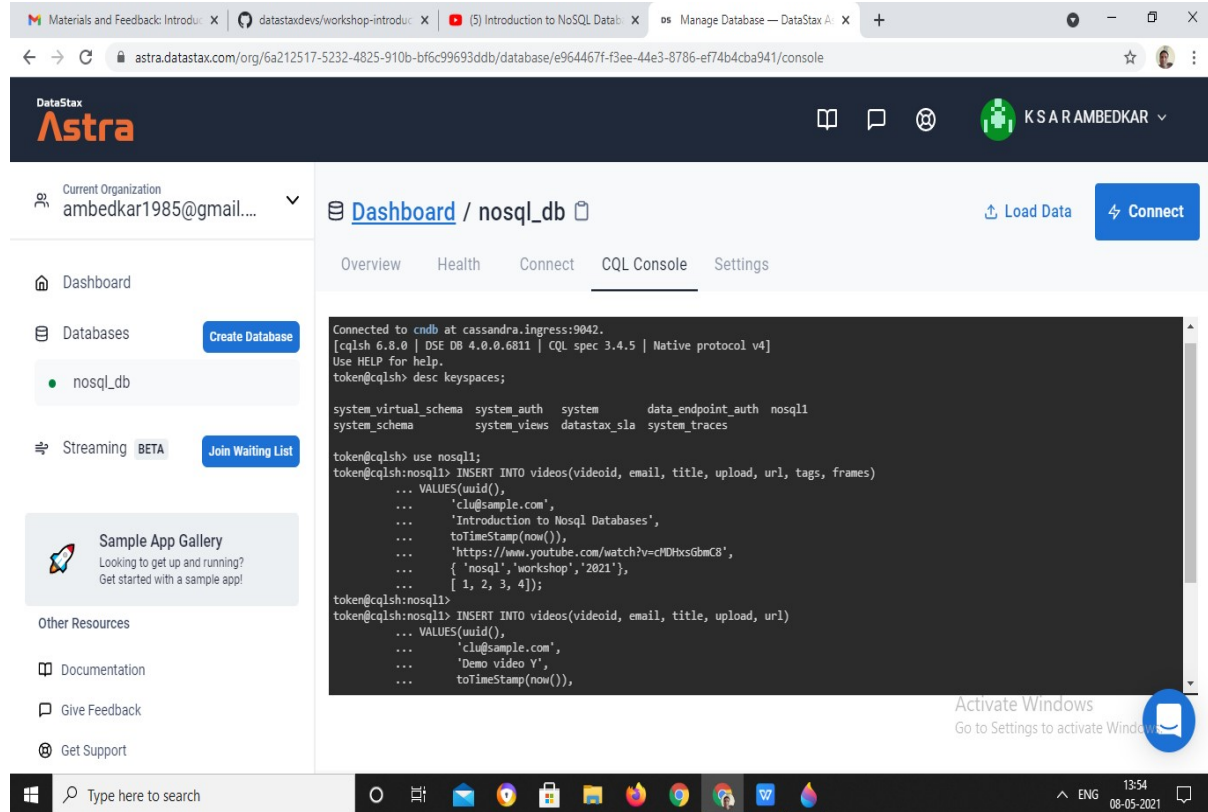
Dashboard / nosql_db

Overview Health Connect CQL Console Settings

```
CREATE TABLE nosql1.videos (
  videoid uuid PRIMARY KEY,
  email text,
  frames list<int>,
  tags set<text>,
  title text,
  upload timestamp,
  url text
) WITH additional_write_policy = '99PERCENTILE'
AND bloom_filter_fp_chance = 0.01
AND caching = {'keys': 'ALL', 'rows_per_partition': 'NONE'}
AND comment = ''
AND compaction = {'class': 'org.apache.cassandra.db.compaction.UnifiedCompactionStrategy', 'log_all': 'true', 'num_shards': '128'}
AND compression = {'chunk_length_in_kb': '64', 'class': 'org.apache.cassandra.io.compress.LZ4Compressor'}
AND crc_check_chance = 1.0
AND default_time_to_live = 0
AND gc_grace_seconds = 864000
AND max_index_interval = 2048
AND memtable_flush_period_in_ms = 0
AND min_index_interval = 128
AND read_repair = 'BLOCKING'
AND speculative_retry = '99PERCENTILE';
```

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2c. Working with Date



Materials and Feedback: Introdu... | datastaxdevs/workshop-introduc... | (5) Introduction to NoSql Data... | Manage Database — DataStax A... | +

astradatastax.com/org/6a212517-5232-4825-910b-bf6c99693ddb/database/e964467f-f3ee-44e3-8786-ef74b4cba941/console

DataStax Astra

Current Organization: ambedkar1985@gmail... | Dashboard / nosql_db | Load Data | Connect

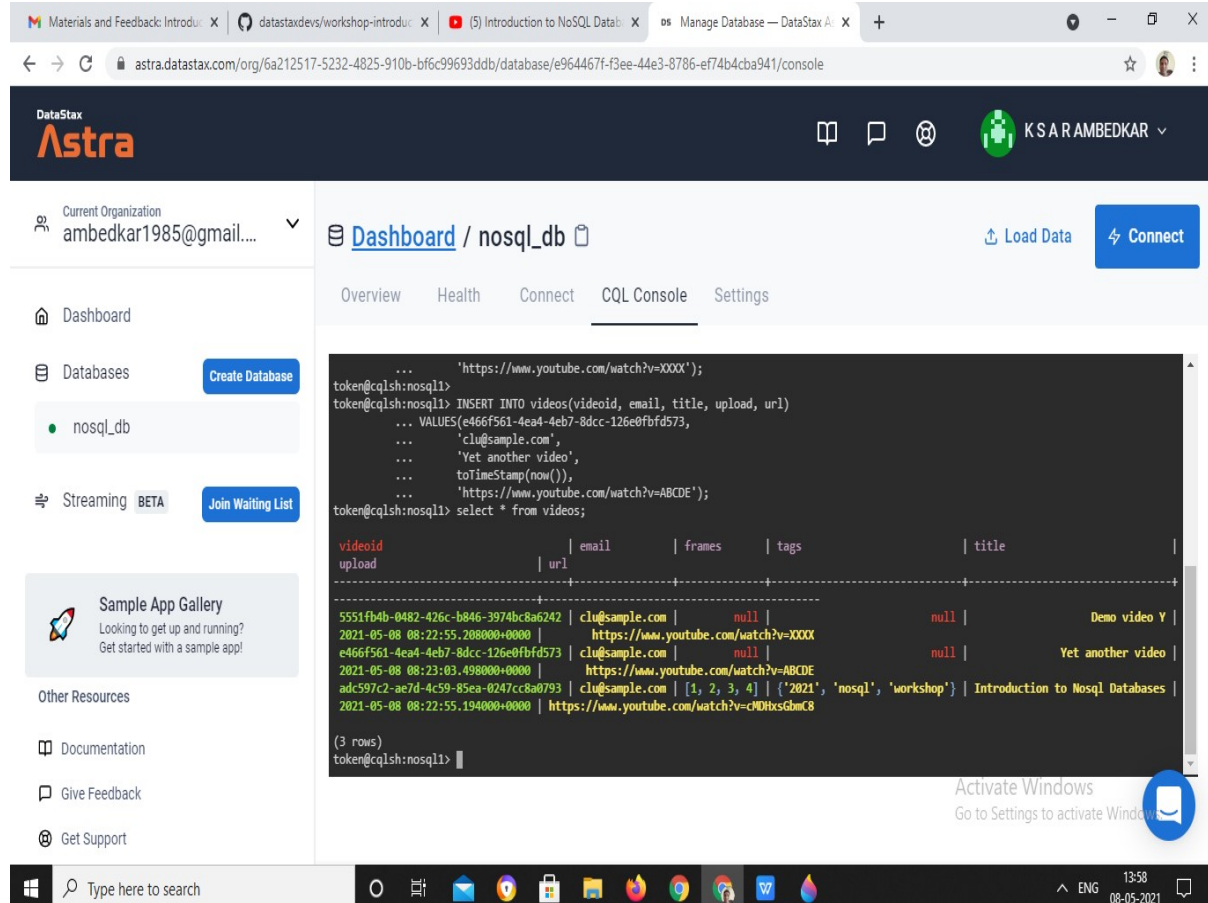
Overview | Health | Connect | CQL Console | Settings

```
Connected to cndb at cassandra.ingress:9042.
[cqlsh 6.8.0 | DSE DB 4.0.0.6811 | CQL spec 3.4.5 | Native protocol v4]
Use HELP for help.
token@cqlsh> desc keyspaces;

system_virtual_schema  system_auth  system      data_endpoint_auth  nosql1
system_schema          system_views  datastax_sla  system_traces

token@cqlsh> use nosql1;
token@cqlsh:nosql1> INSERT INTO videos(videoid, email, title, upload, url, tags, frames)
... VALUES(uuid(),
... 'clu@sample.com',
... 'Introduction to Nosql Databases',
... toTimeStamp(now()),
... 'https://www.youtube.com/watch?v=CMDHxsGbmC8',
... {'nosql','workshop','2021'},
... [ 1, 2, 3, 4]);
token@cqlsh:nosql1>
token@cqlsh:nosql1> INSERT INTO videos(videoid, email, title, upload, url)
... VALUES(uuid(),
... 'clu@sample.com',
... 'Demo video Y',
... toTimeStamp(now()),
... );
```

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Materials and Feedback: Introdu... | datastaxdevs/workshop-introduc... | (5) Introduction to NoSql Data... | Manage Database — DataStax A... | +

astradatastax.com/org/6a212517-5232-4825-910b-bf6c99693ddb/database/e964467f-f3ee-44e3-8786-ef74b4cba941/console

DataStax Astra

Current Organization: ambedkar1985@gmail... | Dashboard / nosql_db | Load Data | Connect

Overview | Health | Connect | CQL Console | Settings

```
... 'https://www.youtube.com/watch?v=XXXX');
token@cqlsh:nosql1>
token@cqlsh:nosql1> INSERT INTO videos(videoid, email, title, upload, url)
... VALUES(e466f561-4ea4-4eb7-8dcc-126e0fbfd573,
... 'clu@sample.com',
... 'Yet another video',
... toTimeStamp(now()),
... 'https://www.youtube.com/watch?v=ABCDE');
token@cqlsh:nosql1> select * from videos;

videoid      | email      | frames | tags | title
upload      | url
-----+-----+-----+-----+-----
5551fb4b-0482-426c-b846-3974bc8a6242 | clu@sample.com | null | null | Demo video Y
2021-05-08 08:22:55.208000+0000 | https://www.youtube.com/watch?v=XXXX
e466f561-4ea4-4eb7-8dcc-126e0fbfd573 | clu@sample.com | null | null | Yet another video
2021-05-08 08:23:03.498000+0000 | https://www.youtube.com/watch?v=ABCDE
ad597c2-ae7d-4c59-85ea-0247cc8a0793 | clu@sample.com | [ 1, 2, 3, 4 ] | {'2021', 'nosql', 'workshop'} | Introduction to Nosql Databases
2021-05-08 08:22:55.194000+0000 | https://www.youtube.com/watch?v=CMDHxsGbmC8

(3 rows)
token@cqlsh:nosql1>
```

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Materials and Feedback: Introdu... | datastaxdevs/workshop-introduc... | (5) Introduction to NoSQL Data... | Manage Database — DataStax Astra

astradatastax.com/org/6a212517-5232-4825-910b-bf6c99693ddb/database/e964467f-f3ee-44e3-8786-ef74b4cba941/console

DataStax Astra

Current Organization: ambedkar1985@gmail...

Dashboard / nosql_db

Overview Health Connect CQL Console Settings

videoid	email	frames	tags	title	upload	url
5551fb4b-0482-426c-b846-3974bc8a6242	clu@sample.com	null	null	Demo video Y	2021-05-08 08:22:55.208000+0000	https://www.youtube.com/watch?v=XXXX
e466f561-4ea4-4eb7-8dcc-126e0fbfd573	clu@sample.com	null	null	Yet another video	2021-05-08 08:23:03.498000+0000	https://www.youtube.com/watch?v=ABCDE
ad597c2-ae7d-4e59-85ea-0247cc8a0793	clu@sample.com	[1, 2, 3, 4]	'nosql', 'workshop'	Introduction to Nosql Databases	2021-05-08 08:22:55.194000+0000	https://www.youtube.com/watch?v=ch0ixsGmC8

```
token@cqlsh:nosql1> select * from videos
... where videoid=e466f561-4ea4-4eb7-8dcc-126e0fbfd573;
```

videoid	email	frames	tags	title	upload	url
e466f561-4ea4-4eb7-8dcc-126e0fbfd573	clu@sample.com	null	null	Yet another video	2021-05-08 08:23:03.498000+0000	https://www.youtube.com/watch?v=ABCDE

```
token@cqlsh:nosql1>
```

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2d. Working with Partitions

Materials and Feedback: Introdu... | datastaxdevs/workshop-introduc... | (5) Introduction to NoSQL Data... | Manage Database — DataStax Astra

astradatastax.com/org/6a212517-5232-4825-910b-bf6c99693ddb/database/e964467f-f3ee-44e3-8786-ef74b4cba941/console

DataStax Astra

Current Organization: ambedkar1985@gmail...

Dashboard / nosql_db

Overview Health Connect CQL Console Settings

videoid	email	frames	tags	title	upload	url
e466f561-4ea4-4eb7-8dcc-126e0fbfd573	clu@sample.com	null	null	Yet another video	2021-05-08 08:23:03.498000+0000	https://www.youtube.com/watch?v=ABCDE

```
token@cqlsh:nosql1> CREATE TABLE IF NOT EXISTS users_by_city (
... city text,
... firstname text,
... lastname text,
... email text,
... PRIMARY KEY ((city), lastname, email)
...) WITH CLUSTERING ORDER BY(lastname ASC, email ASC);
token@cqlsh:nosql1> INSERT INTO users_by_city(city, firstname, lastname, email)
... VALUES('PARIS', 'Lunven', 'Cedrick', 'clu@sample.com');
token@cqlsh:nosql1>
token@cqlsh:nosql1> INSERT INTO users_by_city(city, firstname, lastname, email)
... VALUES('PARIS', 'Yellow', 'Jackets', 'yj@sample.com');
token@cqlsh:nosql1>
token@cqlsh:nosql1> INSERT INTO users_by_city(city, firstname, lastname, email)
... VALUES('ORLANDO', 'David', 'Gillard', 'dgi@sample.com');
token@cqlsh:nosql1>
```

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Materials and Feedback: Introdu... | datastaxdevs/workshop-introduc... | (5) Introduction to NoSQL Datab... | os Manage Database — DataStax Astra

astradatastax.com/org/6a212517-5232-4825-910b-bf6c99693ddb/database/e964467f-f3ee-44e3-8786-ef74b4cba941/console

DataStax Astra K S A R AMBEDKAR

Current Organization: ambedkar1985@gmail...

Dashboard / nosql_db Load Data Connect

Overview Health Connect **CQL Console** Settings

```

token@cqlsh:nosql1> SELECT * from users_by_city WHERE city='PARIS';

```

city	lastname	email	firstname
PARIS	Cedrick	clu@sample.com	Lunven
PARIS	Jackets	yj@sample.com	Yellow

(2 rows)

```

token@cqlsh:nosql1> SELECT * from users_by_city WHERE lastname='Gilardi';
InvalidRequest: Error from server: code=2200 [Invalid query] message="cannot execute this query as it might involve data filtering and thus may have unpredictable performance. If you want to execute this query despite the performance unpredictability, use ALLOW FILTERING"
token@cqlsh:nosql1> tracing on;
Now Tracing is enabled
token@cqlsh:nosql1> SELECT * from users_by_city WHERE city='PARIS';

```

city	lastname	email	firstname
PARIS	Cedrick	clu@sample.com	Lunven
PARIS	Jackets	yj@sample.com	Yellow

(2 rows)

Tracing session: 97b70490-afd9-11eb-9406-1f4b0fcd27f3

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Type here to search

14:15
08-05-2021

Materials and Feedback: Introdu... | datastaxdevs/workshop-introduc... | (5) Introduction to NoSQL Datab... | os Manage Database — DataStax Astra

astradatastax.com/org/6a212517-5232-4825-910b-bf6c99693ddb/database/e964467f-f3ee-44e3-8786-ef74b4cba941/console

DataStax Astra K S A R AMBEDKAR

Current Organization: ambedkar1985@gmail...

Dashboard / nosql_db Load Data Connect

Overview Health Connect **CQL Console** Settings

```

activity | source | source_elapsed | client | timestamp

```

activity	source	source_elapsed	client	timestamp
Execute CQL3 query		0	e964:467f:f3ee:44e3:8786:ef74:b4cb:a941	2021-05-08 08:44:25.306000
Parsing SELECT * from users by city WHERE city='PARIS'; [CoreThread-6]	172.25.0.193	1523	e964:467f:f3ee:44e3:8786:ef74:b4cb:a941	2021-05-08 08:44:25.307000
Preparing statement [CoreThread-6]	172.25.0.193	2269	e964:467f:f3ee:44e3:8786:ef74:b4cb:a941	2021-05-08 08:44:25.308000
Reading data from [/172.25.6.205] [CoreThread-6]	172.25.0.193	14906	e964:467f:f3ee:44e3:8786:ef74:b4cb:a941	2021-05-08 08:44:25.320000
READS.SINGLE_READ message received from /172.25.0.193 [CoreThread-2]	172.25.6.205	--	e964:467f:f3ee:44e3:8786:ef74:b4cb:a941	2021-05-08 08:44:25.320000
Reading digests from [/172.25.2.154] [CoreThread-6]	172.25.0.193	15199	e964:467f:f3ee:44e3:8786:ef74:b4cb:a941	2021-05-08 08:44:25.320000
Sending READS.SINGLE_READ message to /172.25.6.205, size=173 bytes [CoreThread-4]	172.25.0.193	15469	e964:467f:f3ee:44e3:8786:ef74:b4cb:a941	2021-05-08 08:44:25.320000
Sending READS.SINGLE_READ message to /172.25.2.154, size=174 bytes [CoreThread-1]	172.25.0.193	15528	e964:467f:f3ee:44e3:8786:ef74:b4cb:a941	2021-05-08 08:44:25.320000
Skipped 0/0 non-slice-intersecting sstables, included 0 due to tombstones [CoreThread-2]	172.25.6.205	315	e964:467f:f3ee:44e3:8786:ef74:b4cb:a941	2021-05-08 08:44:25.321000
Merged data from mentables and 0 sstables during single-partition query on users_by_city for key 'PARIS' [CoreThread-2]				2021-05-08 08:44:25.321000

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14:20
08-05-2021

Materials and Feedback: Introdu... | datastaxdevs/workshop-introduc... | (5) Introduction to NoSQL DataB... | Manage Database - DataStax Astra... | +

astradatastax.com/org/6a212517-5232-4825-910b-bf6c99693ddb/database/e964467f-f3ee-44e3-8786-ef74b4cb941/console

DataStax Astra K S A R AMBEDKAR

Current Organization: ambedkar1985@gmail...

Dashboard / nosql_db Load Data Connect

Overview Health Connect **CQL Console** Settings

```

Processing response from /172.25.6.205 [CoreThread-6] | 2021-05-08 08:
44:25.322000 | 172.25.0.193 | 17614 | e964:467f:f3ee:44e3:8786:ef74:b4cb:a941
READS.SINGLE_READ message received from /172.25.0.193 [CoreThread-2] | 2021-05-08 08:
44:25.324000 | 172.25.2.154 | 355 | e964:467f:f3ee:44e3:8786:ef74:b4cb:a941
Skipped 0/0 non-slice-intersecting sstables, included 0 due to tombstones [CoreThread-2] | 2021-05-08 08:
44:25.327000 | 172.25.2.154 | 5261 | e964:467f:f3ee:44e3:8786:ef74:b4cb:a941
Merged data from mentables and 0 sstables during single-partition query on users_by_city for key 'PARIS' [CoreThread-2] | 2021-05-08 08:
44:25.327000 | 172.25.2.154 | 5505 | e964:467f:f3ee:44e3:8786:ef74:b4cb:a941
Read 2 live rows and 0 tombstones ones [CoreThread-2] | 2021-05-08 08:
44:25.327000 | 172.25.2.154 | 5566 | e964:467f:f3ee:44e3:8786:ef74:b4cb:a941
Enqueuing READS.SINGLE_READ response to /172.25.2.154 [CoreThread-2] | 2021-05-08 08:
44:25.328000 | 172.25.2.154 | 5626 | e964:467f:f3ee:44e3:8786:ef74:b4cb:a941
Sending READS.SINGLE_READ message to /172.25.0.193, size=128 bytes [CoreThread-1] | 2021-05-08 08:
44:25.331000 | 172.25.2.154 | 8109 | e964:467f:f3ee:44e3:8786:ef74:b4cb:a941
READS.SINGLE_READ message received from /172.25.2.154 [CoreThread-6] | 2021-05-08 08:
44:25.331000 | 172.25.0.193 | 26492 | e964:467f:f3ee:44e3:8786:ef74:b4cb:a941
Processing response from /172.25.2.154 [CoreThread-6] | 2021-05-08 08:
44:25.331000 | 172.25.0.193 | 26557 | e964:467f:f3ee:44e3:8786:ef74:b4cb:a941
Request complete | 2021-05-08 08:
44:25.333893 | 172.25.0.193 | 27893 | e964:467f:f3ee:44e3:8786:ef74:b4cb:a941
token@cqlsh:nosql1>

```

Sample App Gallery: Looking to get up and running? Get started with a sample app!

Other Resources: Documentation, Give Feedback, Get Support

Windows Taskbar: Type here to search, 14:22, 08-05-2021

Materials and Feedback: Introdu... | datastaxdevs/workshop-introduc... | (5) Introduction to NoSQL DataB... | Manage Database - DataStax Astra... | +

astradatastax.com/org/6a212517-5232-4825-910b-bf6c99693ddb/database/e964467f-f3ee-44e3-8786-ef74b4cb941/console

DataStax Astra K S A R AMBEDKAR

Current Organization: ambedkar1985@gmail...

Dashboard / nosql_db Load Data Connect

Overview Health Connect **CQL Console** Settings

```

SyntaxException: line 1:0 no viable alternative at input 'VALUES' ([VALUES]...)
token@cqlsh:nosql1> SELECT * from users_by_city WHERE lastname='Gillard' ALLOW FILTERING;

city | lastname | email | firstname
-----+-----+-----+-----
ORLANDO | Gillardi | dgi@sample.com | David

(1 rows)

Tracing session: 0d0c2350-afdb-11eb-9406-1f4b0fcd27f3

activity | source | source_elapsed | client | timestamp
-----+-----+-----+-----+-----
Execute CQL3 query | 2021-05-08
08:54:51.653000 | 172.25.0.193 | 0 | e964:467f:f3ee:44e3:8786:ef74:b4cb:a941
Parsing SELECT * from users_by_city WHERE lastname='Gillard' ALLOW FILTERING; [CoreThread-3] | 2021-05-08
08:54:51.653000 | 172.25.0.193 | 447 | e964:467f:f3ee:44e3:8786:ef74:b4cb:a941
Preparing statement [CoreThread-3] | 2021-05-08
08:54:51.653000 | 172.25.0.193 | 626 | e964:467f:f3ee:44e3:8786:ef74:b4cb:a941
READS.RANGE_READ message received from /172.25.0.193 [CoreThread-2] | 2021-05-08
08:54:51.666000 | 172.25.2.154 | 59 | e964:467f:f3ee:44e3:8786:ef74:b4cb:a941

```

Sample App Gallery: Looking to get up and running? Get started with a sample app!

Other Resources: Documentation, Give Feedback, Get Support

Windows Taskbar: Type here to search, 14:25, 08-05-2021

Materials and Feedback: Introdu... | datastaxdevs/workshop-introdu... | (5) Introduction to NoSQL Data... | ds Manage Database — DataStax Astra

astra.datastax.com/org/6a212517-5232-4825-910b-bf6c99693ddb/database/e964467f-f3ee-44e3-8786-e774b4cb941/console

DataStax Astra K S A R AMBEDKAR

Current Organization: ambedkar1985@gmail...

Dashboard / nosql_db Load Data Connect

Overview Health Connect **CQL Console** Settings

```

08:54:51.666000 | 172.25.2.154 | 59 | e964:467f:f3ee:44e3:8786:ef74:b4cb:a941 | READS.RANGE_READ message received from /172.25.0.193 [CoreThread-2] | 2021-05-08
08:54:51.666000 | 172.25.0.193 | 12339 | e964:467f:f3ee:44e3:8786:ef74:b4cb:a941 | Computing ranges to query... [CoreThread-3] | 2021-05-08
08:54:51.666000 | 172.25.2.154 | 297 | e964:467f:f3ee:44e3:8786:ef74:b4cb:a941 | Executing seq scan across 0 sstables for (min(-9223372036854775808), min(-9223372036854775808)) [CoreThread-2] | 2021-05-08
08:54:51.666000 | 172.25.0.193 | 12459 | e964:467f:f3ee:44e3:8786:ef74:b4cb:a941 | Submitting range requests on 25 ranges with a concurrency of 1 (0.0 rows per range expected) [CoreThread-3] | 2021-05-08
08:54:51.666000 | 172.25.2.154 | 534 | e964:467f:f3ee:44e3:8786:ef74:b4cb:a941 | Read 1 live rows and 0 tombstone ones [CoreThread-2] | 2021-05-08
08:54:51.666000 | 172.25.0.193 | 12886 | e964:467f:f3ee:44e3:8786:ef74:b4cb:a941 | Submitted 1 concurrent range requests [CoreThread-3] | 2021-05-08
08:54:51.666000 | 172.25.2.154 | 593 | e964:467f:f3ee:44e3:8786:ef74:b4cb:a941 | Enqueuing READS.RANGE_READ response to /172.25.2.154 [CoreThread-2] | 2021-05-08
08:54:51.666000 | 172.25.0.193 | 12886 | e964:467f:f3ee:44e3:8786:ef74:b4cb:a941 | Sending READS.RANGE_READ message to /172.25.0.193, size=213 bytes [CoreThread-1] | 2021-05-08
08:54:51.666000 | 172.25.2.154 | 344 | e964:467f:f3ee:44e3:8786:ef74:b4cb:a941 | Sending READS.RANGE_READ message to /172.25.0.193, size=188 bytes [CoreThread-1] | 2021-05-08
08:54:51.666000 | 172.25.2.154 | 12886 | e964:467f:f3ee:44e3:8786:ef74:b4cb:a941 | Sending READS.RANGE_READ message to /172.25.6.205, size=213 bytes [CoreThread-4] | 2021-05-08
08:54:51.667000 | 172.25.6.205 | -- | e964:467f:f3ee:44e3:8786:ef74:b4cb:a941 | READS.RANGE_READ message received from /172.25.0.193 [CoreThread-2] | 2021-05-08
08:54:51.667000 | 172.25.6.205 | -- | e964:467f:f3ee:44e3:8786:ef74:b4cb:a941 | Executing seq scan across 0 sstables for (min(-9223372036854775808), min(-9223372036854775808)) [CoreThread-2] | 2021-05-08
  
```

Activate Windows
Go to Settings to activate Windows

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Materials and Feedback: Introdu... | datastaxdevs/workshop-introdu... | (5) Introduction to NoSQL Data... | ds Manage Database — DataStax Astra

astra.datastax.com/org/6a212517-5232-4825-910b-bf6c99693ddb/database/e964467f-f3ee-44e3-8786-e774b4cb941/console

DataStax Astra K S A R AMBEDKAR

Current Organization: ambedkar1985@gmail...

Dashboard / nosql_db Load Data Connect

Overview Health Connect **CQL Console** Settings

```

08:54:51.667000 | 172.25.6.205 | 590 | e964:467f:f3ee:44e3:8786:ef74:b4cb:a941 | Read 1 live rows and 0 tombstone ones [CoreThread-2] | 2021-05-08
08:54:51.667000 | 172.25.6.205 | 681 | e964:467f:f3ee:44e3:8786:ef74:b4cb:a941 | Enqueuing READS.RANGE_READ response to /172.25.6.205 [CoreThread-2] | 2021-05-08
08:54:51.668000 | 172.25.6.205 | 828 | e964:467f:f3ee:44e3:8786:ef74:b4cb:a941 | Sending READS.RANGE_READ message to /172.25.0.193, size=188 bytes [CoreThread-1] | 2021-05-08
08:54:51.669000 | 172.25.0.193 | 15393 | e964:467f:f3ee:44e3:8786:ef74:b4cb:a941 | READS.RANGE_READ message received from /172.25.2.154 [CoreThread-4] | 2021-05-08
08:54:51.669000 | 172.25.0.193 | 15466 | e964:467f:f3ee:44e3:8786:ef74:b4cb:a941 | Processing response from /172.25.2.154 [CoreThread-3] | 2021-05-08
08:54:51.669000 | 172.25.6.205 | 15466 | e964:467f:f3ee:44e3:8786:ef74:b4cb:a941 | READS.RANGE_READ message received from /172.25.6.205 [CoreThread-4] | 2021-05-08
08:54:51.669000 | 172.25.0.193 | 15466 | e964:467f:f3ee:44e3:8786:ef74:b4cb:a941 | Processing response from /172.25.6.205 [CoreThread-3] | 2021-05-08
08:54:51.669000 | 172.25.0.193 | 15590 | e964:467f:f3ee:44e3:8786:ef74:b4cb:a941 | Didn't get enough response rows; actual rows per range: 0.04; remaining rows: 99, new concurrent requests: 1 [CoreThread-3] | 2021-05-08
08:54:51.669000 | 172.25.0.193 | 16168 | e964:467f:f3ee:44e3:8786:ef74:b4cb:a941 | Request complete | 2021-05-08
08:54:51.669348 | 172.25.0.193 | 16348 | e964:467f:f3ee:44e3:8786:ef74:b4cb:a941 | Request complete | 2021-05-08
  
```

```

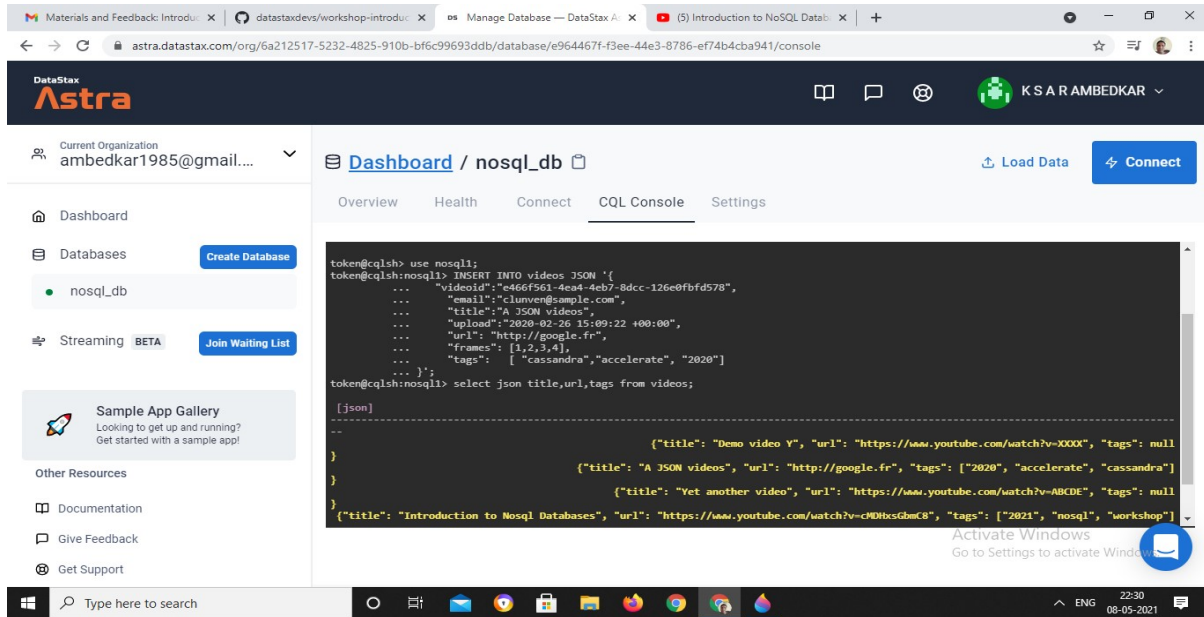
token@cqlsh:nosql1> tracing off;
Disabled Tracing.
token@cqlsh:nosql1>
  
```

Activate Windows
Go to Settings to activate Windows

Type here to search

Document Databases: Hands on #3 Document Database

3a. Cassandra known as JSON

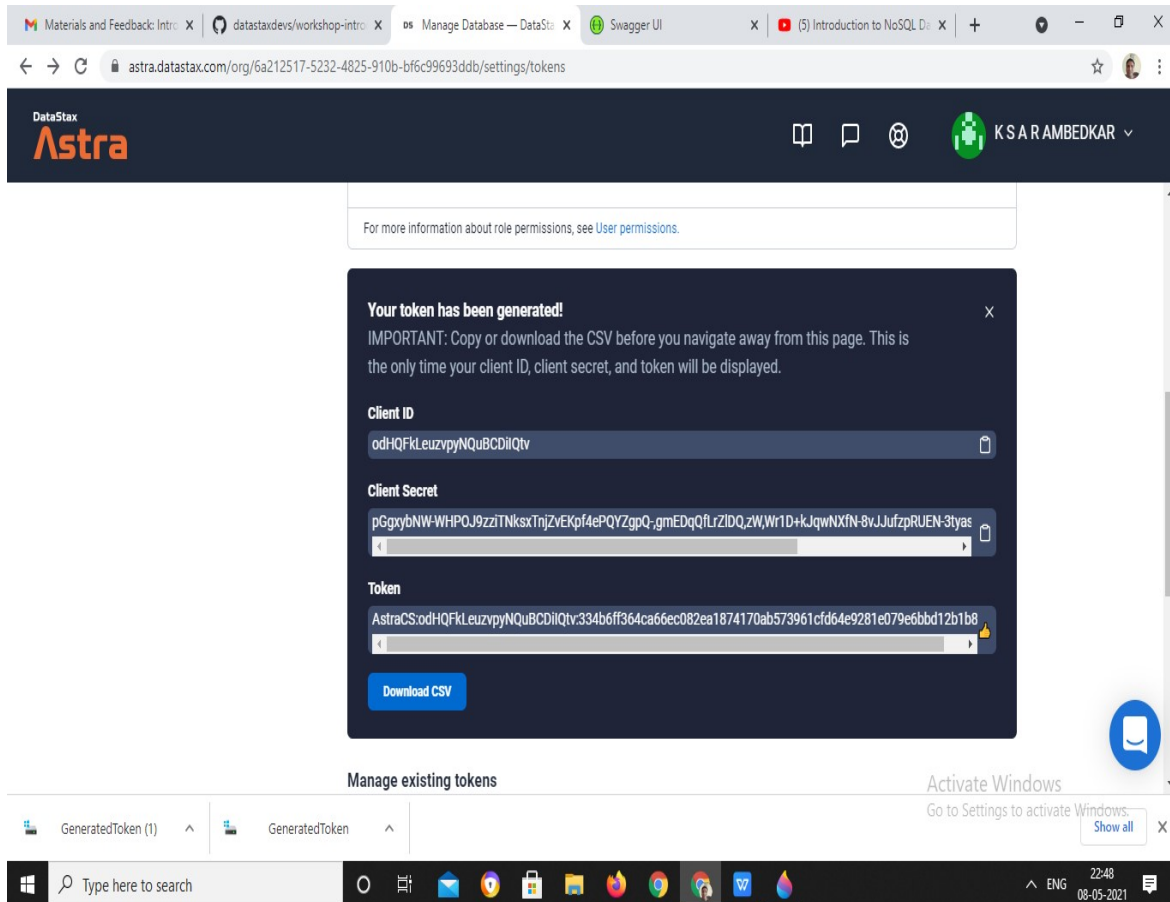


The screenshot shows the DataStax Astra console interface. On the left, there's a sidebar with navigation options like 'Dashboard', 'Databases', and 'Streaming'. The main area is titled 'Dashboard / nosql_db' and contains a 'CQL Console' tab. The console shows the following commands and output:

```
token@cqlsh> use nosql;
token@cqlsh:nosql> INSERT INTO videos JSON '{
...
  "videoId": "e466f561-4e44-4eb7-8dcc-126e0bfd578",
  ...
  "email": "clunven@sample.com",
  ...
  "title": "A JSON videos",
  ...
  "upload": "2020-02-26 15:00:22 +00:00",
  ...
  "url": "http://google.fr",
  ...
  "frames": [1,2,3,4],
  ...
  "tags": ["cassandra","accelerate","2020"]
... }';
token@cqlsh:nosql> select json title,url,tags from videos;

[json]
-----
{"title": "Demo video Y", "url": "https://www.youtube.com/watch?v=XXXX", "tags": null}
{"title": "A JSON videos", "url": "http://google.fr", "tags": ["2020", "accelerate", "cassandra"]}
{"title": "Yet another video", "url": "https://www.youtube.com/watch?v=ABCDE", "tags": null}
{"title": "Introduction to Nosql Databases", "url": "https://www.youtube.com/watch?v=cMDtbcGmC8", "tags": ["2021", "nosql", "workshop"]}
```

3b. Create my Application Token

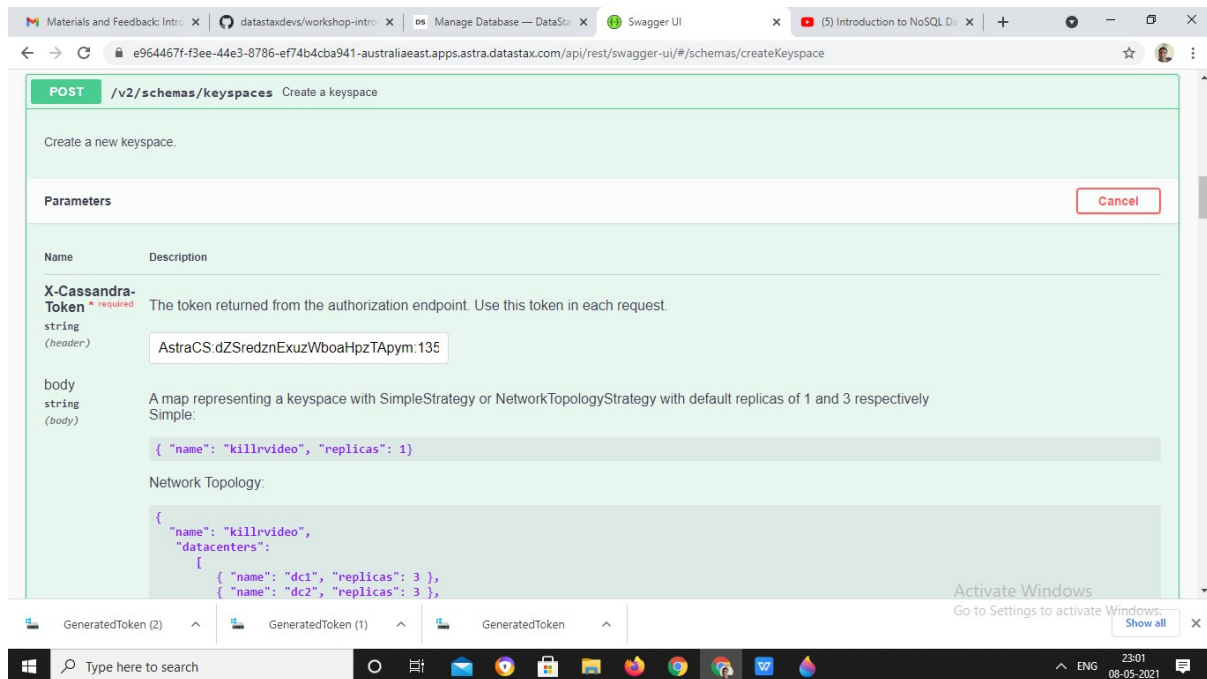


The screenshot shows the 'Settings/Tokens' page in the DataStax Astra console. A modal dialog titled 'Your token has been generated!' is displayed, providing the following information:

- Client ID:** odHQFkLeuzvpyNQuBCDiQiv
- Client Secret:** pGgxybNW-WHPQJ9zziTNksxTnjZVEKpf4ePQYZgpQ-gmEDqQflrZIDQ_zWwR1D+kJqwNXfN-8vJufzprUEN-3tyas
- Token:** AstraCS:odHQFkLeuzvpyNQuBCDiQiv:334b6ff364ca66ec082ea1874170ab573961cfd64e9281e079e6bbd12b1b8

Below the modal, there is a 'Download CSV' button and a section for 'Manage existing tokens' which shows a table with one entry: 'GeneratedToken (1)'.

3b1. Creating a namespace

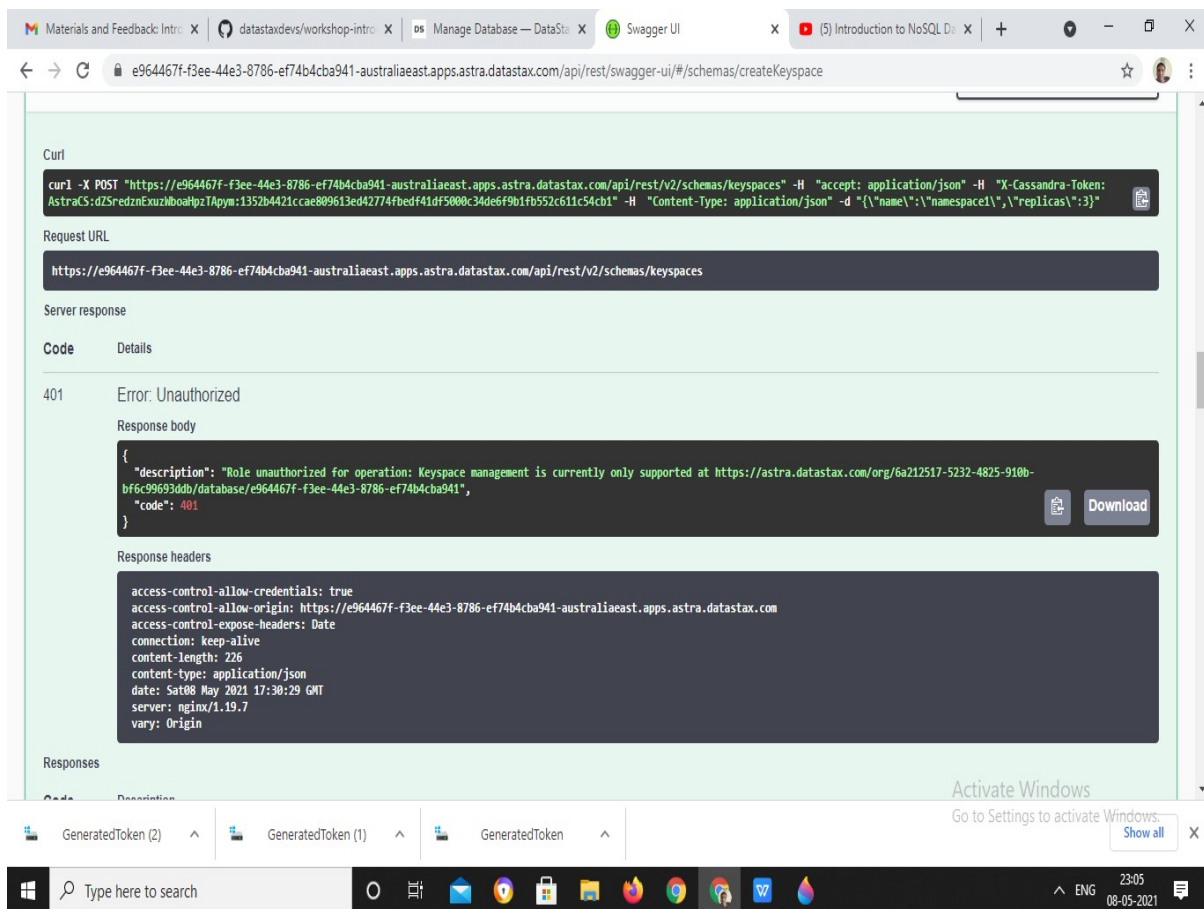


The image shows the Swagger UI for the endpoint `POST /v2/schemas/keyspaces`. The interface is titled "Create a namespace". It includes a "Parameters" section with a "Cancel" button. The parameters are:

- X-Cassandra-Token** (required, string, header): The token returned from the authorization endpoint. Use this token in each request. Value: `AstraCS:dZSredznEXuzWboaHpzTApym:135`
- body** (string, body): A map representing a keyspace with SimpleStrategy or NetworkTopologyStrategy with default replicas of 1 and 3 respectively. Simple: `{ "name": "killrvideo", "replicas": 1 }` Network Topology: `{ "name": "killrvideo", "datacenters": { "name": "dc1", "replicas": 3 }, { "name": "dc2", "replicas": 3 } }`

The bottom of the browser window shows the Windows taskbar with the search bar and system tray.

Error output



The image shows the Swagger UI displaying an error response for the `POST /v2/schemas/keyspaces` endpoint. The error is a 401 Unauthorized response.

Request URL: `https://e964467f-f3ee-44e3-8786-ef74b4cba941-australiaeast.apps.astra.datastax.com/api/rest/v2/schemas/keyspaces`

Server response:

Code	Details
401	Error: Unauthorized

Response body:

```
{
  "description": "Role unauthorized for operation: Keyspace management is currently only supported at https://astra.datastax.com/org/6a212517-5232-4825-910b-bf6c99693d0b/database/e964467f-f3ee-44e3-8786-ef74b4cba941",
  "code": 401
}
```

Response headers:

```
access-control-allow-credentials: true
access-control-allow-origin: https://e964467f-f3ee-44e3-8786-ef74b4cba941-australiaeast.apps.astra.datastax.com
access-control-expose-headers: Date
connection: keep-alive
content-length: 226
content-type: application/json
date: Sat08 May 2021 17:30:29 GMT
server: nginx/1.19.7
vary: Origin
```

The bottom of the browser window shows the Windows taskbar with the search bar and system tray.

3b2. Checking namespace existence

The image shows the Swagger UI for the endpoint `GET /v2/schemas/keyspaces`. The interface includes a "Parameters" section with the following details:

Name	Description
X-Cassandra-Token * required	The token returned from the authorization endpoint. Use this token in each request.
string (header)	<input type="text" value="AstraCS:rgkZmiYbmiFBZmLYqQAtyAlY.eeef"/>
raw boolean (query)	Unwrap results
	<input type="text" value="--"/>

Below the parameters is an "Execute" button and a "Clear" button. The "Responses" section shows the response content type set to `application/json`.

Expected output

The image shows the Swagger UI after the endpoint has been executed. The "Responses" section displays the following information:

- Response content type:** `application/json`
- Request URL:** `https://e964467f-f3ee-44e3-8786-ef74b4cba941-australiaeast.apps.astra.datastax.com/api/rest/v2/schemas/keyspaces`
- Server response:** `200`
- Response body:**

```
{
  "data": [
    {
      "name": "data_endpoint_auth",
      "datacenters": [
        {
          "name": "australiaeast",
          "replicas": 3
        }
      ]
    },
    {
      "name": "datastax_sla",
      "datacenters": [

```


3c. Create a new empty collection

The screenshot shows the Swagger UI interface for the endpoint `POST /v2/namespaces/{namespace-id}/collections`. The parameters section includes:

- X-Cassandra-Token** (required): The token returned from the authorization endpoint. Use this token in each request. Value: `AstraCS:vgIDbePQcmbBuErgJfkXblZl:8a12E`
- namespace-id** (required): the namespace to create the collection in. Value: `nosql1`
- body** (required): JSON with the name of the collection. Value: `{ "name": "col1" }`

The interface also shows a 'Cancel' button and an 'Activate Windows' watermark.

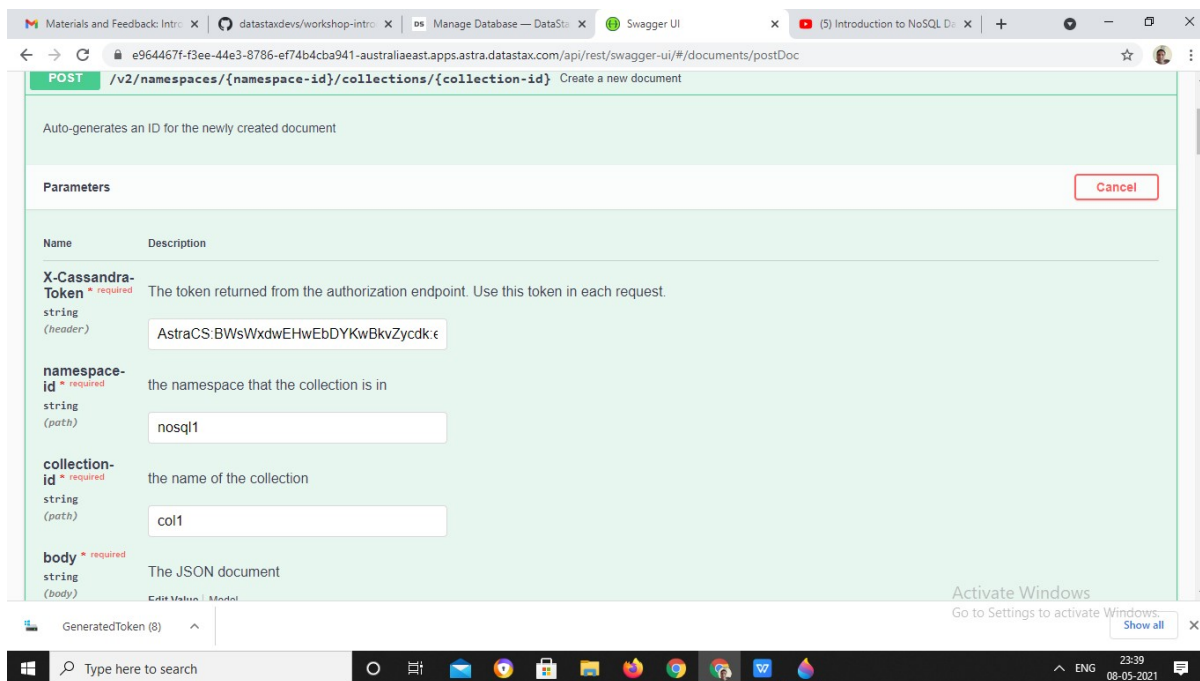
After execution, output is error

The screenshot shows the execution results for the `POST /v2/namespaces/nosql1/collections` endpoint. The response is a 409 Conflict error with the following details:

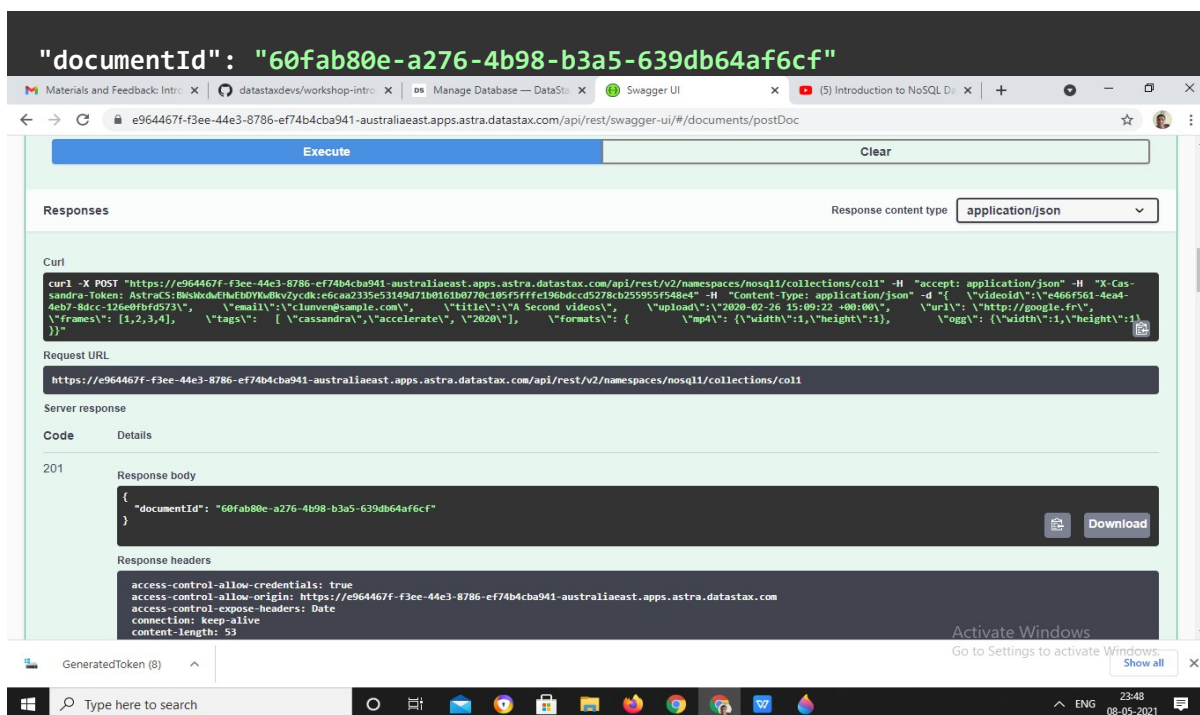
- Code:** 409
- Response body:** `{ "description": "Create failed: collection col1 already exists.", "code": 409 }`
- Response headers:** `access-control-allow-credentials: true, access-control-allow-origin: https://e964467f-f3ee-44e3-8786-ef74b4cba941-australiaeast.apps.astra.datastax.com, access-control-expose-headers: Date, connection: keep-alive, content-length: 75, content-type: application/json, date: Sat 08 May 2021 17:58:08 GMT, server: nginx/1.19.7, vary: Origin`

The interface also shows the 'Execute' button, 'Clear' button, and 'Response content type' set to `application/json`. An 'Activate Windows' watermark is present.

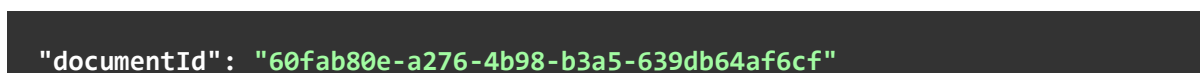
3d.Create a new document



After execution



Output with document id is



3e. Find all documents of a collection

The screenshot shows the Swagger UI for the endpoint `GET /v2/namespaces/{namespace-id}/collections/{collection-id}`. The description states: "Page over documents in a collection, with optional search parameters. Does not perform well for large documents." The parameters section includes:

Name	Description
X-Cassandra-Token * required	The token returned from the authorization endpoint. Use this token in each request.
string (header)	<input type="text" value="AstraCS:EZHgpzXqWwTqwjWkKdLwrBj:a7C"/>
namespace-id * required	the namespace that the collection is in
string (path)	<input type="text" value="nosql1"/>
collection-id * required	the name of the collection
string (path)	<input type="text" value="col1"/>

where

The screenshot shows the response for the GET endpoint. The response content type is `application/json`. The response body is:

```
{
  "pageState": "eyJkb2N1bWVudE1kIjo1ZDRlZDRyMjktNDU5ODNDNmLF-jYmFtMzQ5fjFhY2Q4NmM2IiwiaW50ZXJ0YXUyYm9YdU53RhdGU0IiIjQ==",
  "data": {
    "d4ed0269-4205-443f-acbc-349b1acd85c6": {
      "name": "col1"
    }
  }
}
```

The response headers are:

```
connection: keep-alive
content-length: 184
content-type: application/json
date: Sat08 May 2021 18:31:14 GMT
server: nginx/1.19.7
vary: Accept-Encoding
```

Document id from console as

```
d4ed0269-4205-443f-acbc-349b1acd85c6"
```


3f.Retrieve a document from id

The screenshot shows the Swagger UI for the 'getDoc' endpoint. The parameters are as follows:

Name	Description
X-Cassandra-Token * required string (header)	The token returned from the authorization endpoint. Use this token in each request.
namespace-id * required string (path)	the namespace that the collection is in
collection-id * required string (path)	the name of the collection
document-id * required string (path)	the name of the document
where string (query)	a JSON blob with search filters, allowed operators: \$eq, \$ne, \$in, \$nin, \$gt, \$lt, \$gte, \$lte, \$exists

Example values for the parameters:

- X-Cassandra-Token: AstraCS:IZDBsIfnvQXjaKdnZRjUaRTU:cb95f
- namespace-id: nosql1
- collection-id: col1
- document-id: d4ed0269-4205-443f-acbc-349b1acd85c6
- where: where - a JSON blob with search filters, allow

Expected output is

The screenshot shows the Swagger UI after executing the 'getDoc' endpoint. The response is as follows:

```
curl -X GET "https://e964467f-f3ee-44e3-8786-ef74b4cba941-australiaeast.apps.astra.datastax.com/api/rest/v2/namespaces/nosql1/collections/col1/d4ed0269-4205-443f-acbc-349b1acd85c6" -H "accept: application/json" -H "X-Cassandra-Token: AstraCS:IZDBsIfnvQXjaKdnZRjUaRTU:cb9567b0eea045f770da14978b9e486893fbcc295323c949ba50b95ad4f65"
```

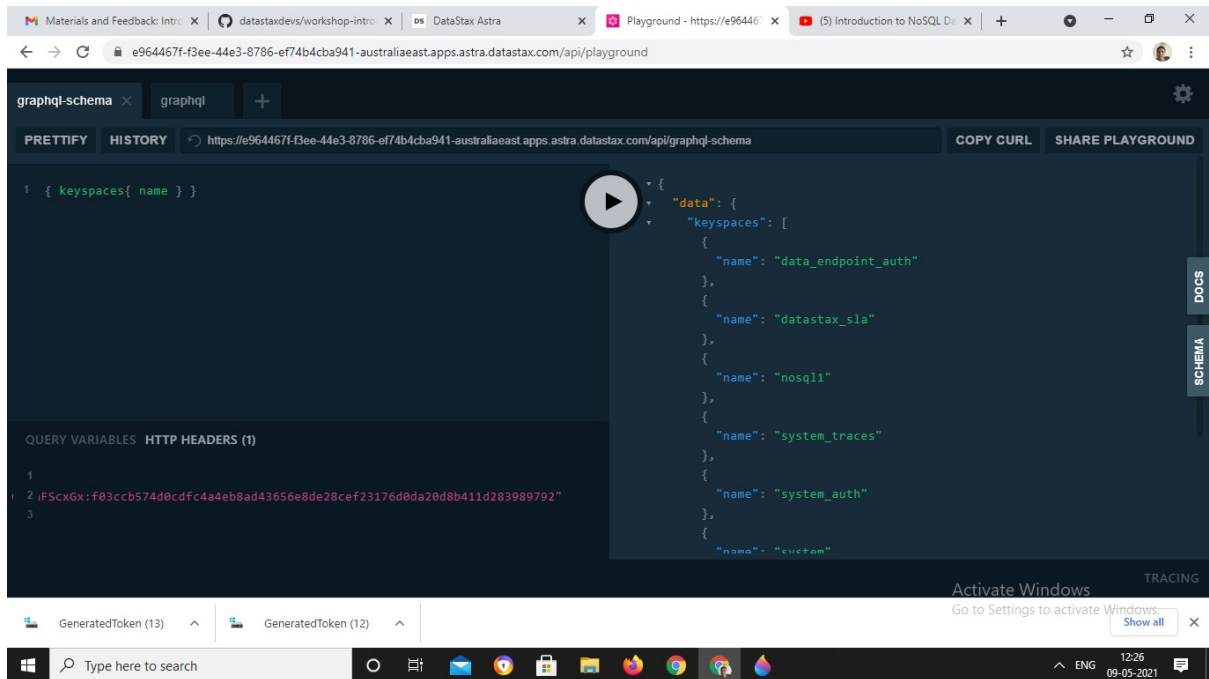
Request URL: https://e964467f-f3ee-44e3-8786-ef74b4cba941-australiaeast.apps.astra.datastax.com/api/rest/v2/namespaces/nosql1/collections/col1/d4ed0269-4205-443f-acbc-349b1acd85c6

Server response

Code	Details
200	<p>Response body</p> <pre>{ "documentId": "d4ed0269-4205-443f-acbc-349b1acd85c6", "data": { "name": "col1" } }</pre> <p>Response headers</p> <pre>connection: keep-alive content-length: 76 content-type: application/json date: Sat 08 May 2021 18:41:46 GMT</pre>

4.Key value Databases:Hands on #4 key-value DB

4a.Create Cassandra token with output



The screenshot shows a GraphQL Playground interface. The query on the left is:

```
1 { keyspaces{ name } }
```

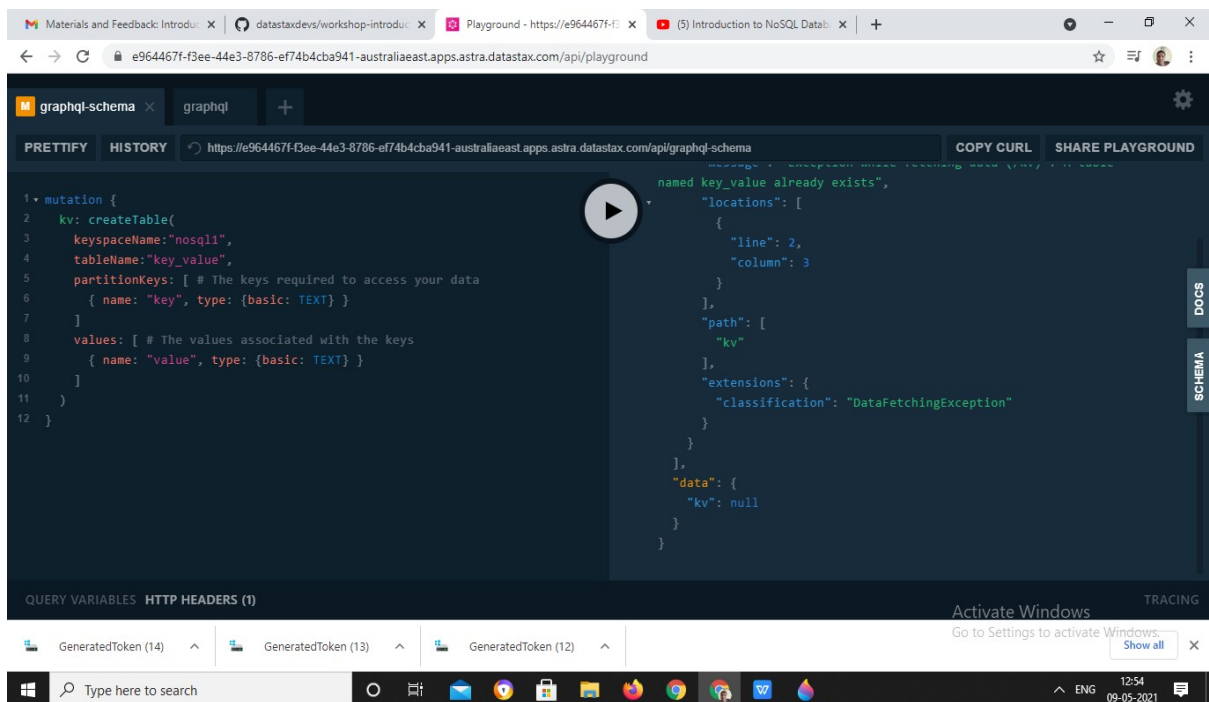
The response on the right is:

```
{
  "data": {
    "keyspaces": [
      {
        "name": "data_endpoint_auth"
      },
      {
        "name": "datastax_sla"
      },
      {
        "name": "nosql1"
      },
      {
        "name": "system_traces"
      },
      {
        "name": "system_auth"
      },
      {
        "name": "system"
      }
    ]
  }
}
```

Below the query, the 'QUERY VARIABLES' section shows:

```
1
2 iF5cxGx:f03ccb574d0cdfc4a4eb8ad43656e8de28cef23176d0da20d8b411d283989792"
3
```

4b.Create a table with GraphQL



The screenshot shows a GraphQL Playground interface. The mutation query on the left is:

```
1 mutation {
2   kv: createTable(
3     keyspaceName:"nosql1",
4     tableName:"key_value",
5     partitionKeys: [ # The keys required to access your data
6       { name: "key", type: {basic: TEXT} }
7     ]
8     values: [ # The values associated with the keys
9       { name: "value", type: {basic: TEXT} }
10    ]
11  )
12 }
```

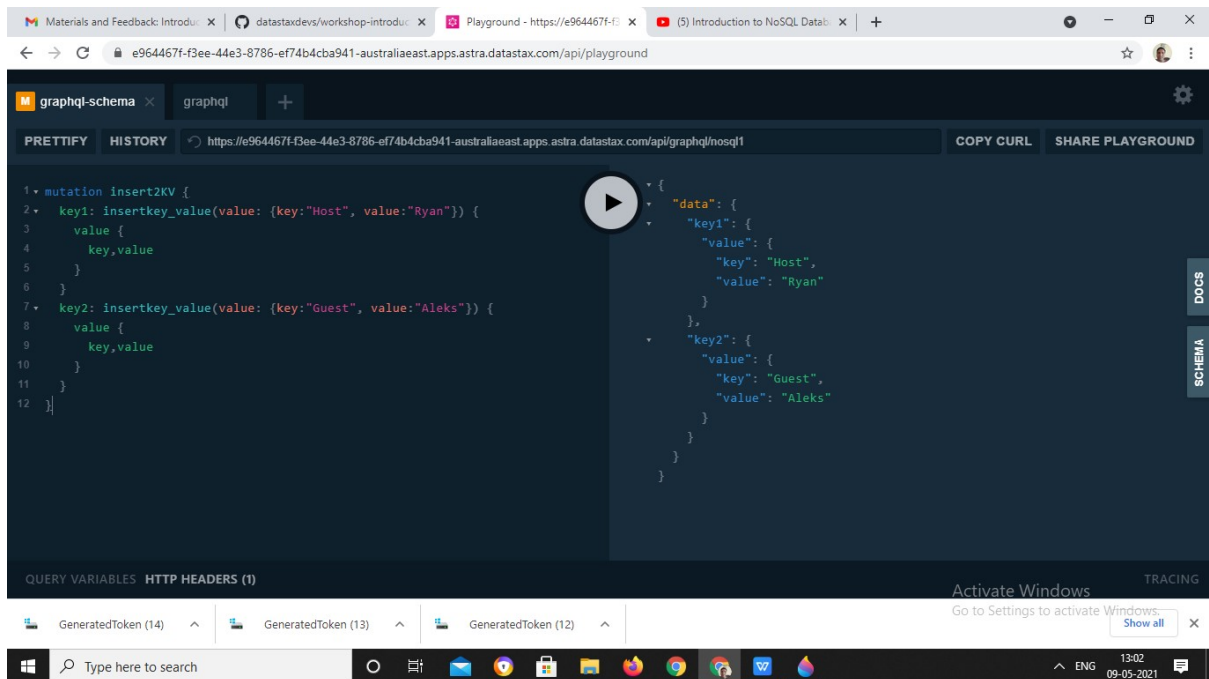
The response on the right is:

```
named key_value already exists",
"locations": [
  {
    "line": 2,
    "column": 3
  }
],
"path": [
  "kv"
],
"extensions": {
  "classification": "DataFetchingException"
}
},
"data": {
  "kv": null
}
}
```

Expected output is

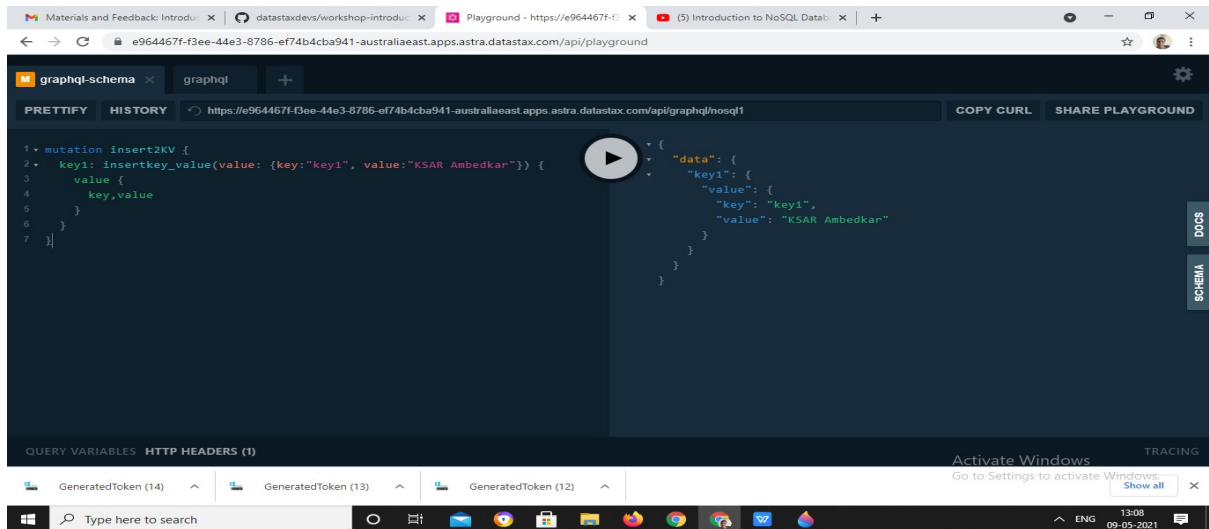
```
“data”:{
“kv”: null
}
}
```


4c. Populate the table



Expected output is as obtained.

4c1. Execute the query



Expected output

```
{
  "data": {
    "key1": {
      "value": {
        "key": "key1",
        "value": "KSAR Ambedkar"
      }
    }
  }
}
```

4c2. Execute the query

The screenshot shows a GraphQL Playground interface. On the left, a query is written:

```
1 mutation {
2   kv: createTable(
3     keySpaceName: "nosql1",
4     tableName: "key_value",
5     partitionKeys: [ # The keys required to access your data
6       { name: "key", type: {basic: TEXT} }
7     ]
8     values: [ # The values associated with the keys
9       { name: "value", type: {basic: TEXT} }
10    ]
11  }
12 }
```

 On the right, the JSON response shows an error:

```
{
  "errors": [
    {
      "message": "Validation error of type FieldUndefined: Field 'createTable' in type 'Mutation' is undefined @ 'createTable'",
      "locations": [
        {
          "line": 2,
          "column": 3
        }
      ],
      "extensions": {
        "classification": "ValidationError"
      }
    }
  ]
}
```

 The interface includes buttons for 'COPY CURL' and 'SHARE PLAYGROUND'.

Expected output is error, so we proceed to CQL Console.

CQL output is

The screenshot shows the DataStax Astra CQL Console interface. The left sidebar shows the 'Databases' section with 'nosql_db' selected. The main area displays the CQL console with the following output:

```
token@cqlsh> use nosql1;
token@cqlsh:nosql1> desc tables;

key_value users_by_city videos coll

token@cqlsh:nosql1> select * from key_value;
SyntaxException: line 1:18 no viable alternative at input 'value' (select * from [key] value...)
token@cqlsh:nosql1> Select * from key_value;
SyntaxException: line 1:18 no viable alternative at input 'value' (Select * from [key] value...)
token@cqlsh:nosql1> select * from key_value;

key | value
-----
Guest | Aleks
Host | Ryan
key1 | KSAR Ambedkar

(3 rows)
token@cqlsh:nosql1> |
```

 The interface includes a 'Connect' button and a 'Load Data' button.