

EXEC 8 CASSANDRA - EDUARDO

NÓS CASSANDRA CONECTADOS

Cassandra MGM [Ejecutando] - Oracle VirtualBox

```

Arquivo  Maquina  Visualizar  Entrada  Dispositivos  Ayuda
l/ State-Normal/Leaving/Joining/Moving
- Address      Load      Tokens      Dums (effective)  Host ID
UN  192.168.1.1  108.64 KIB  256      100.0%      b3b7aadc-f20b-4c4a-b420-5f56da
ck1
UN  192.168.1.2  108.33 KIB  256      100.0%      1d8e8ee6-d646-4581-b46e-c0a395
ck1

cassandra@node1:~$ nodetool status
Datacenter: datacenter1
=====
Status=Up/Down
l/ State-Normal/Leaving/Joining/Moving
- Address      Load      Tokens      Dums (effective)  Host ID
UN  192.168.1.1  108.64 KIB  256      65.4%      b3b7aadc-f20b-4c4a-b420-5f56da
ck1
UN  192.168.1.2  108.33 KIB  256      65.7%      1d8e8ee6-d646-4581-b46e-c0a395
ck1
UN  192.168.1.3  84.26 KIB  256      68.9%      dac0808a-2b77-4b65-a540-e45428
ck1

cassandra@node1:~$ nodetool status
Datacenter: datacenter1
=====
Status=Up/Down
l/ State-Normal/Leaving/Joining/Moving
- Address      Load      Tokens      Dums (effective)  Host ID
UN  192.168.1.1  108.64 KIB  256      65.4%      b3b7aadc-f20b-4c4a-b420-5f56da
ck1
UN  192.168.1.2  113.28 KIB  256      65.7%      1d8e8ee6-d646-4581-b46e-c0a395
ck1
UN  192.168.1.3  84.26 KIB  256      68.9%      dac0808a-2b77-4b65-a540-e45428
ck1

cassandra@node1:~$

```

Cassandra No1 [Ejecutando] - Oracle VirtualBox

```

Arquivo  Maquina  Visualizar  Entrada  Dispositivos  Ayuda
l/ State-Normal/Leaving/Joining/Moving
- Address      Load      Tokens      Dums (effective)  Host ID
UN  192.168.1.1  108.64 KIB  256      100.0%      b3b7aadc-f20b-4c4a-b420-5f56da
ck1
UN  192.168.1.2  108.33 KIB  256      100.0%      1d8e8ee6-d646-4581-b46e-c0a395
ck1

cassandra@node2:~$ nodetool status
Datacenter: datacenter1
=====
Status=Up/Down
l/ State-Normal/Leaving/Joining/Moving
- Address      Load      Tokens      Dums (effective)  Host ID
UN  192.168.1.1  108.64 KIB  256      65.4%      b3b7aadc-f20b-4c4a-b420-5f56da
ck1
UN  192.168.1.2  113.28 KIB  256      65.7%      1d8e8ee6-d646-4581-b46e-c0a395
ck1
UN  192.168.1.3  84.26 KIB  256      68.9%      dac0808a-2b77-4b65-a540-e45428
ck1

cassandra@node2:~$ nodetool status
Datacenter: datacenter1
=====
Status=Up/Down
l/ State-Normal/Leaving/Joining/Moving
- Address      Load      Tokens      Dums (effective)  Host ID
UN  192.168.1.1  108.64 KIB  256      65.4%      b3b7aadc-f20b-4c4a-b420-5f56da
ck1
UN  192.168.1.2  113.28 KIB  256      65.7%      1d8e8ee6-d646-4581-b46e-c0a395
ck1
UN  192.168.1.3  84.26 KIB  256      68.9%      dac0808a-2b77-4b65-a540-e45428
ck1

cassandra@node2:~$

```

Cassandra No2 [Ejecutando] - Oracle VirtualBox

```

Arquivo  Maquina  Visualizar  Entrada  Dispositivos  Ayuda
root@node3:/home/cassandra:~$ nodetool status
Datacenter: datacenter1
=====
Status=Up/Down
l/ State-Normal/Leaving/Joining/Moving
- Address      Load      Tokens      Dums (effective)  Host ID
UN  192.168.1.1  108.64 KIB  256      65.4%      b3b7aadc-f20b-4c4a-b420-5f56da
ck1
UN  192.168.1.2  113.28 KIB  256      65.7%      1d8e8ee6-d646-4581-b46e-c0a395
ck1
UN  192.168.1.3  84.26 KIB  256      68.9%      dac0808a-2b77-4b65-a540-e45428
ck1

root@node3:/home/cassandra:~$

```

DADOS INSERIDOS NOS 3 NÓS

The image displays three terminal windows side-by-side, each running Cassandra commands. The left window shows successful execution of commands to create a keyspace, table, and insert data. The middle window shows errors for the same commands. The right window shows successful execution of the same commands.

Left Window (Cassandra MGM):

```
cassandra@model1:~/cassandra$ ls
cqlsh cqlsh_history nodepool.history
cassandra@model1:~/cassandra$ mv cqlshc cqlshrc
cassandra@model1:~/cassandra$ ls
cqlsh_history cqlshrc nodepool.history
cassandra@model1:~/cassandra$ cd
cassandra@model1:~$ cqlsh
Connected to 800 f9702c at 192.168.1.1:9042.
(cqlsh 5.0.1 | Cassandra 3.11.1 | CQL spec 3.4.4 | Native protocol v4)
Use HELP for help.
cqlsh> CREATE KEYSPACE classe WITH replication = {'class': 'SimpleStrategy', 'r
SyntaxException: line 1:92 mismatched input ')' expecting ')' (...)('class': 'S
tion_factor': 301...)
cqlsh> CREATE KEYSPACE classe WITH replication = {'class': 'SimpleStrategy', 'r
SyntaxException: line 1:92 mismatched input ')' expecting ')' (...)('class': 'S
tion_factor': 401...)
cqlsh> CREATE KEYSPACE classe WITH replication = {'class': 'SimpleStrategy', 'r
SyntaxException: line 1:92 mismatched input ')' expecting ')' (...)('class': 'S
tion_factor': 401...)
cqlsh> use classe;
cqlsh> create table aluno(nome text,sobrenome text,primary key (sobrenome, nome))
cqlsh> insert into aluno(nome, sobrenome) values ('Maria','Santos');
cqlsh> insert into aluno(nome, sobrenome) values ('Mario','Silva');
cqlsh> insert into aluno(nome, sobrenome) values ('Jose','Oliveira');
cqlsh> insert into aluno(nome, sobrenome) values ('Joao','Ferreira');
cqlsh> select * from aluno;
```

Middle Window (Cassandra No1):

```
cassandra@node2:~/cassandra$ ls
cqlsh cqlsh_history nodepool.history
cassandra@node2:~/cassandra$ mv cqlshc cqlshrc
cassandra@node2:~/cassandra$ cd
cassandra@node2:~$ cqlsh
Connected to 800 f9702c at 192.168.1.2:9042.
(cqlsh 5.0.1 | Cassandra 3.11.1 | CQL spec 3.4.4 | Native protocol v4)
Use HELP for help.
cqlsh> use classe;
cqlsh> create table aluno(nome text,sobrenome text,primary key (sobrenome, nome))
cqlsh> insert into aluno(nome, sobrenome) values ('Maria','Santos');
cqlsh> insert into aluno(nome, sobrenome) values ('Mario','Silva');
cqlsh> insert into aluno(nome, sobrenome) values ('Jose','Oliveira');
cqlsh> insert into aluno(nome, sobrenome) values ('Joao','Ferreira');
cqlsh> select * from aluno;
```

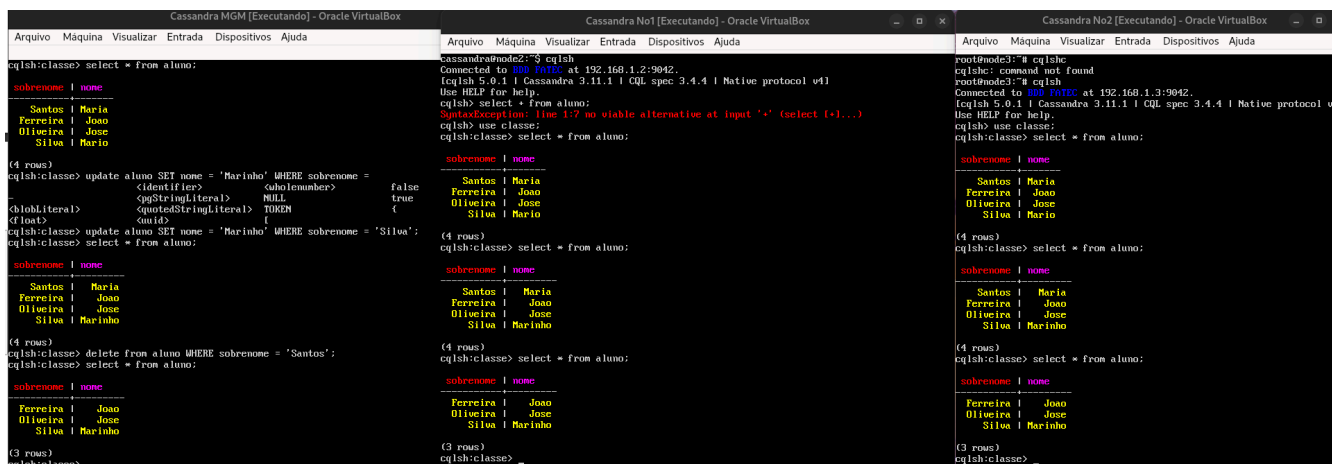
Right Window (Cassandra No2):

```
cassandra@node2:~/cassandra$ ls
cqlsh cqlsh_history nodepool.history
cassandra@node2:~/cassandra$ mv cqlshc cqlshrc
cassandra@node2:~/cassandra$ cd
cassandra@node2:~$ cqlsh
Connected to 800 f9702c at 192.168.1.3:9042.
(cqlsh 5.0.1 | Cassandra 3.11.1 | CQL spec 3.4.4 | Native protocol v4)
Use HELP for help.
cqlsh> use classe;
cqlsh> create table aluno(nome text,sobrenome text,primary key (sobrenome, nome))
cqlsh> insert into aluno(nome, sobrenome) values ('Maria','Santos');
cqlsh> insert into aluno(nome, sobrenome) values ('Mario','Silva');
cqlsh> insert into aluno(nome, sobrenome) values ('Jose','Oliveira');
cqlsh> insert into aluno(nome, sobrenome) values ('Joao','Ferreira');
cqlsh> select * from aluno;
```

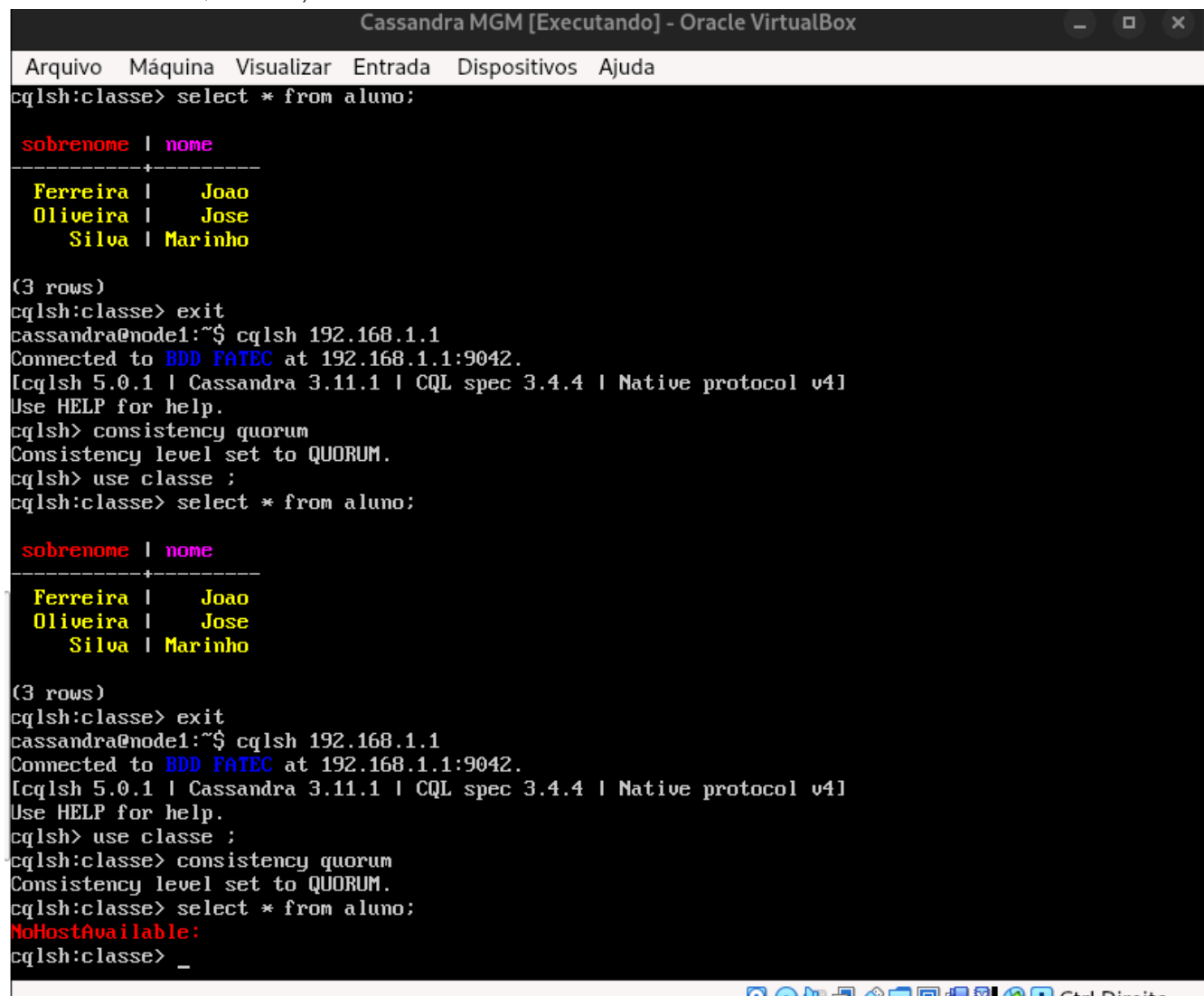
UPDATE DE DADOS

Cassandra MGM [Executando] - Oracle VirtualBox	Cassandra No1 [Executando] - Oracle VirtualBox	Cassandra No2 [Executando] - Oracle VirtualBox
Arquivo Máquina Visualizar Entrada Dispositivos Ajuda	Arquivo Máquina Visualizar Entrada Dispositivos Ajuda	Arquivo Máquina Visualizar Entrada Dispositivos Ajuda
<pre> SyntaxException: line 1:92 mismatch input '}' expecting '}' ('','class': 'StatementFactory': 31)... cqlsh> CREATE KEYSPACE classe WITH replication = {'class': 'SimpleStrategy', 'r ... cqlsh> use classe; cqlsh> create table aluno(nome text,sobrenome text,primary key (sobrenome cqlsh> insert into aluno(nome, sobrenome) values ('Maria','Santos'); cqlsh> insert into aluno(nome, sobrenome) values ('Mario','Silva'); cqlsh> insert into aluno(nome, sobrenome) values ('Jose','Oliveira'); cqlsh> insert into aluno(nome, sobrenome) values ('Joao','Ferreira'); cqlsh> select * from aluno; sobrenome nome ----- Santos Maria Ferreira Joao Oliveira Jose Silva Mario (4 rows) cqlsh> update aluno SET nome = 'Marinho' WHERE sobrenome = <identifier> <columnnumber> false <pgStringLiteral> NULL true <quotedStringLiteral> TOKEN (4 rows) cqlsh> update aluno SET nome = 'Marinho' WHERE sobrenome = 'Silva'; cqlsh> select * from aluno; sobrenome nome ----- Santos Maria Ferreira Joao Oliveira Jose Silva Marinho (4 rows) cqlsh> use classe; cqlsh> select * from aluno; </pre>	<pre> Connected to BD [v1] at 192.168.1.2:9042. cqlsh 5.0.1 Cassandra 3.11.1 CQL spec 3.4.4 Native protocol v1 Use HELP for help. cqlsh> select * from aluno; SyntaxException: line 1:7 no viable alternative at input '}' (select [...]) cqlsh> use classe; cqlsh> select * from aluno; sobrenome nome ----- Santos Maria Ferreira Joao Oliveira Jose Silva Mario (4 rows) cqlsh> select * from aluno; </pre>	<pre> root@node3:~# cqlsh cqlsh> command not found root@node3:~# cqlsh Connected to BD [v1] at 192.168.1.3:9042. cqlsh 5.0.1 Cassandra 3.11.1 CQL spec 3.4.4 Native protocol v1 Use HELP for help. cqlsh> use classe; cqlsh> select * from aluno; sobrenome nome ----- Santos Maria Ferreira Joao Oliveira Jose Silva Mario (4 rows) cqlsh> select * from aluno; </pre>

DELETAR DADOS



CONSISTENCY QUORUM, LIMITA A CONSISTENCIA DOS DADOS



CONSISTENCY ONE, LIMITA A BUSCA PARA SÓMENTE 1 NÓ

```
Cassandra MGM [Executando] - Oracle VirtualBox
Arquivo Máquina Visualizar Entrada Dispositivos Ajuda
cqlsh:classe> use classe ;
cqlsh:classe> select * from aluno;

sobrenome | nome
-----+-----
Ferreira | Joao
Oliveira | Jose
Silva | Marinho

(3 rows)
cqlsh:classe> consistency one
Consistency level set to ONE.
cqlsh:classe> insert into aluno(nome, sobrenome ) values ('Edu','Ferreira');
cqlsh:classe> select * from aluno;

sobrenome | nome
-----+-----
Ferreira | Edu
Oliveira | Jose
Silva | Marinho

(3 rows)
cqlsh:classe> use classe ;
cqlsh:classe> consistency one
Consistency level set to ONE.
cqlsh:classe> insert into aluno(nome, sobrenome ) values ('Edu','Gostoso');
cqlsh:classe> select * from aluno;

sobrenome | nome
-----+-----
Gostoso | Edu
Ferreira | Edu
Oliveira | Jose
Silva | Marinho

(4 rows)
cqlsh:classe>
```

```
Cassandra No1 [Executando] - Oracle VirtualBox
Arquivo Máquina Visualizar Entrada Dispositivos Ajuda

Ferreira | Edu
Oliveira | Jose
Silva | Marinho

(3 rows)
cqlsh:classe> select * from aluno;

sobrenome | nome
-----+-----
Gostoso | Edu
Ferreira | Edu
Oliveira | Jose
Silva | Marinho

(4 rows)
cqlsh:classe>
cqlsh:classe> exit
root@node2:/home/cassandra# cqlsh
Connection error: ('Unable to connect to any servers', ('127.0.0.1', 9042)). Last error: Connection refused")})
root@node2:/home/cassandra# cqlsh 192.168.1.2
Connected to BDD PATEC at 192.168.1.2:9042.
[cqlsh 5.0.1 | Cassandra 3.11.1 | CQL spec 3.4.4 | Native protocol v4]
Use HELP for help.
cqlsh> use classe ;
cqlsh:classe> select * from aluno;

sobrenome | nome
-----+-----
Gostoso | Edu
Ferreira | Edu
Oliveira | Jose
Silva | Marinho

(4 rows)
cqlsh:classe>
```