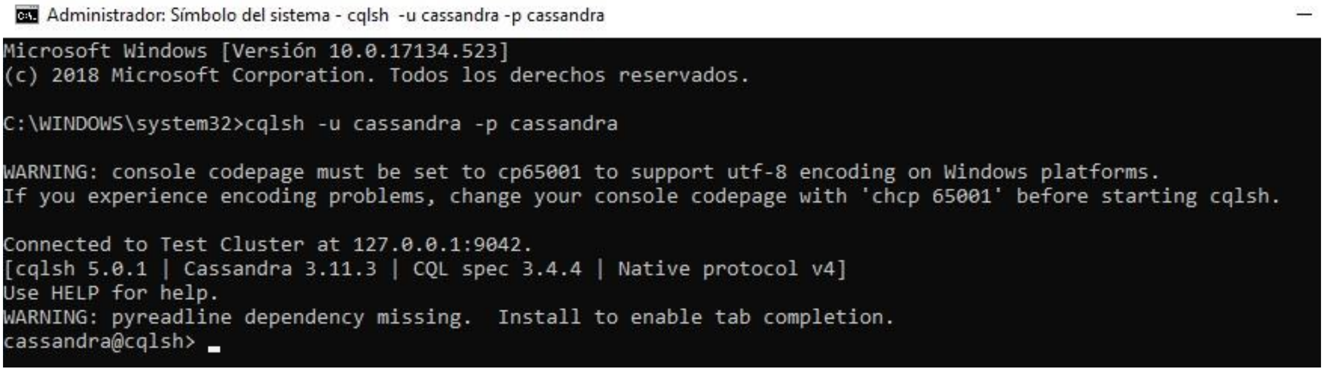
The student was able to connect to Cassandra?

$ cqlsh -u <username> -p <password> localhost

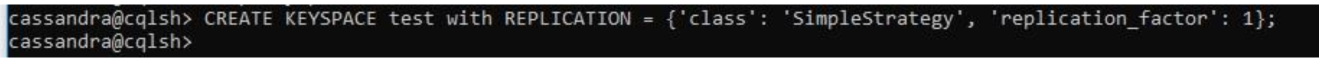


Administrador: Símbolo del sistema - cqlsh -u cassandra -p cassandra

```
Microsoft Windows [Versión 10.0.17134.523]
(c) 2018 Microsoft Corporation. Todos los derechos reservados.

C:\WINDOWS\system32>cqlsh -u cassandra -p cassandra

WARNING: console codepage must be set to cp65001 to support utf-8 encoding on Windows platforms.
If you experience encoding problems, change your console codepage with 'chcp 65001' before starting cqlsh.

Connected to Test Cluster at 127.0.0.1:9042.
[cqlsh 5.0.1 | Cassandra 3.11.3 | CQL spec 3.4.4 | Native protocol v4]
Use HELP for help.
WARNING: pyreadline dependency missing.  Install to enable tab completion.
cassandra@cqlsh>
```

The student was able to create the Keyspace?

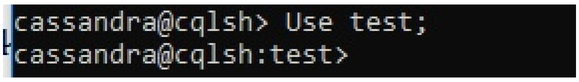
CREATE KEYSPACE test with REPLICATION = {'class' : 'SimpleStrategy', 'replication_factor': 1};



```
cassandra@cqlsh> CREATE KEYSPACE test with REPLICATION = {'class': 'SimpleStrategy', 'replication_factor': 1};
cassandra@cqlsh>
```

Could the student connect to the keyspace?

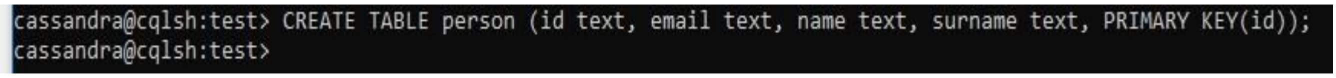
Use test;



```
cassandra@cqlsh> Use test;
cassandra@cqlsh:test>
```

The student was able to create the table?

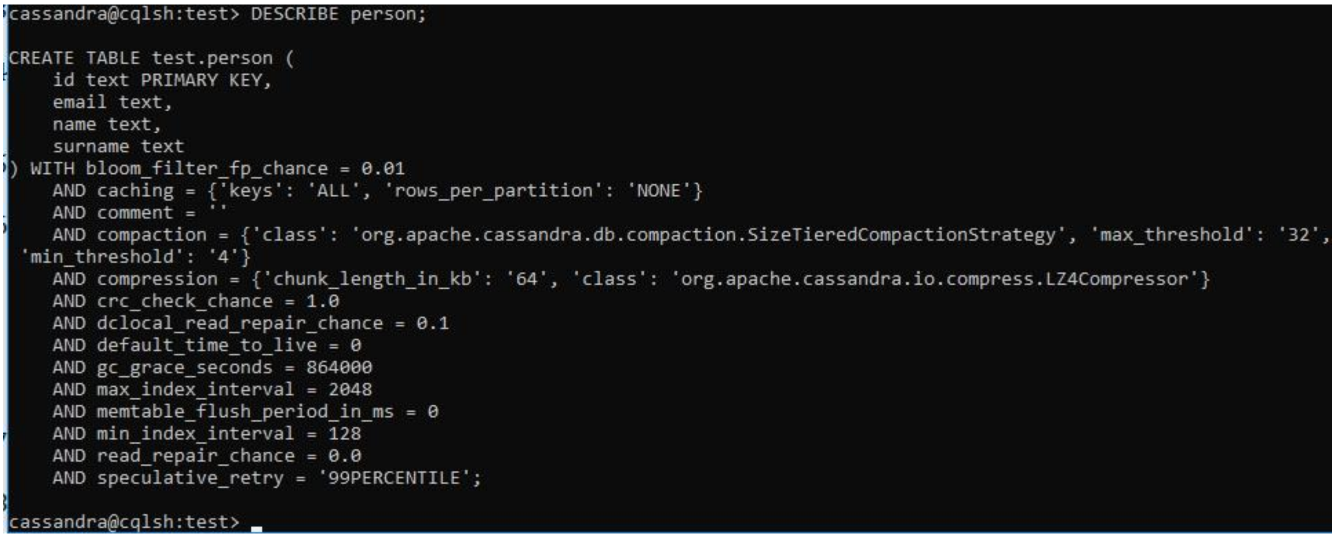
CREATE TABLE person (
id text,
email text,
name text,
surname text,
PRIMARY KEY
(id));



```
cassandra@cqlsh:test> CREATE TABLE person (id text, email text, name text, surname text, PRIMARY KEY(id));
cassandra@cqlsh:test>
```

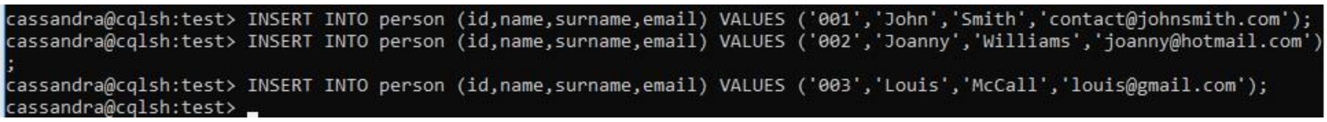
Could the student display and check the correct creation of the table?

Describe person



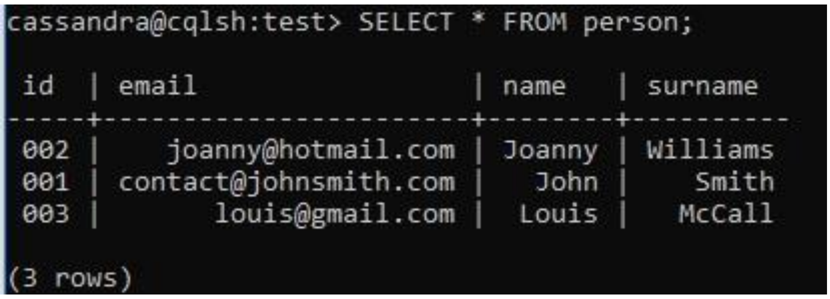
```
cassandra@cqlsh:test> DESCRIBE person;

CREATE TABLE test.person (
    id text PRIMARY KEY,
    email text,
    name text,
    surname text
) WITH bloom_filter_fp_chance = 0.01
    AND caching = {'keys': 'ALL', 'rows_per_partition': 'NONE'}
    AND comment = ''
    AND compaction = {'class': 'org.apache.cassandra.db.compaction.SizeTieredCompactionStrategy', 'max_threshold': '32',
 'min_threshold': '4'}
    AND compression = {'chunk_length_in_kb': '64', 'class': 'org.apache.cassandra.io.compress.LZ4Compressor'}
    AND crc_check_chance = 1.0
    AND dclocal_read_repair_chance = 0.1
    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_chance = 0.0
    AND speculative_retry = '99PERCENTILE';

cassandra@cqlsh:test> _
```

The student was able to insert at least three rows to the table?



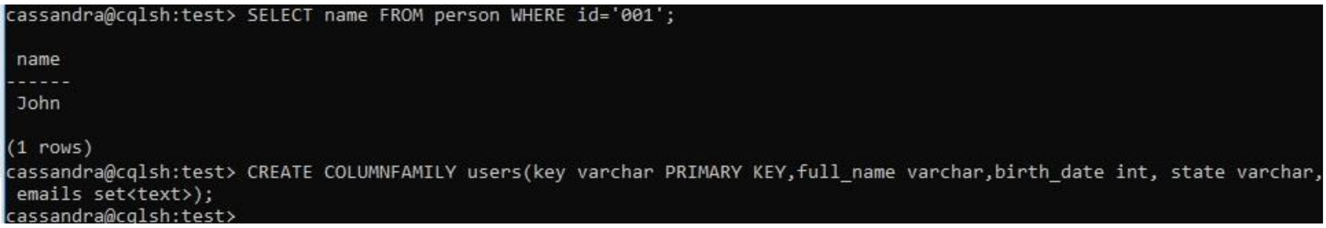
```
cassandra@cqlsh:test> INSERT INTO person (id,name,surname,email) VALUES ('001','John','Smith','contact@johnsmith.com');
cassandra@cqlsh:test> INSERT INTO person (id,name,surname,email) VALUES ('002','Joanny','Williams','joanny@hotmail.com')
;
cassandra@cqlsh:test> INSERT INTO person (id,name,surname,email) VALUES ('003','Louis','McCall','louis@gmail.com');
cassandra@cqlsh:test> _
```

The student was able to read all information from the person table?



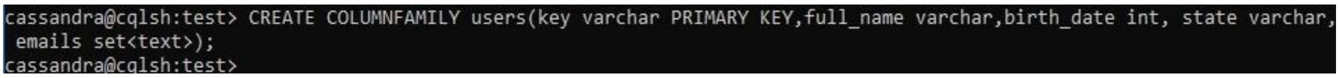
```
cassandra@cqlsh:test> SELECT * FROM person;

 id  | email                 | name   | surname
-----+-----------------------+--------+----------
 002 |    joanny@hotmail.com | Joanny | Williams
 001 | contact@johnsmith.com |   John |    Smith
 003 |       louis@gmail.com |  Louis |   McCall

(3 rows)
```

The student could select information from the person table using a condition



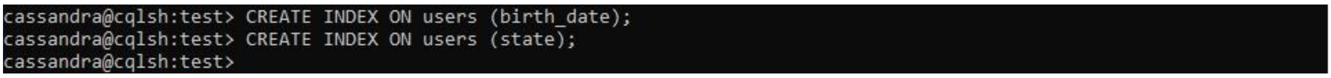
```
cassandra@cqlsh:test> SELECT name FROM person WHERE id='001';

 name
------
 John

(1 rows)
cassandra@cqlsh:test> CREATE COLUMNFAMILY users(key varchar PRIMARY KEY,full_name varchar,birth_date int, state varchar,
 emails set<text>);
cassandra@cqlsh:test>
```

The student could create a columnfamily for users



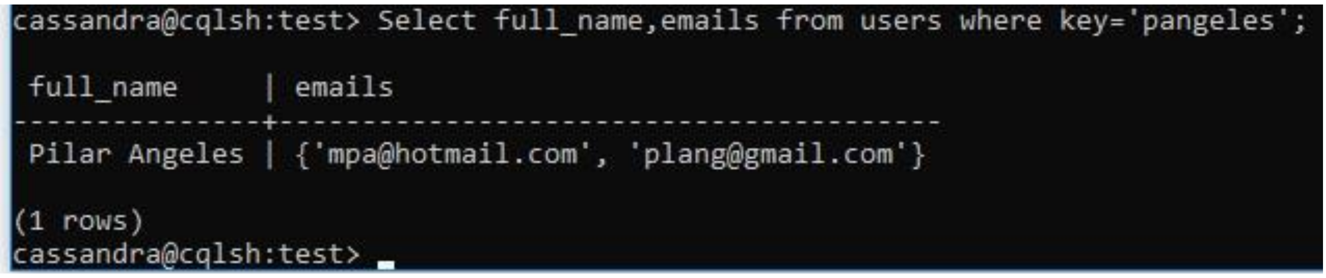
```
cassandra@cqlsh:test> CREATE COLUMNFAMILY users(key varchar PRIMARY KEY,full_name varchar,birth_date int, state varchar,
 emails set<text>);
cassandra@cqlsh:test>
```

The student could create an index on users with birth_data and other index on users with state?



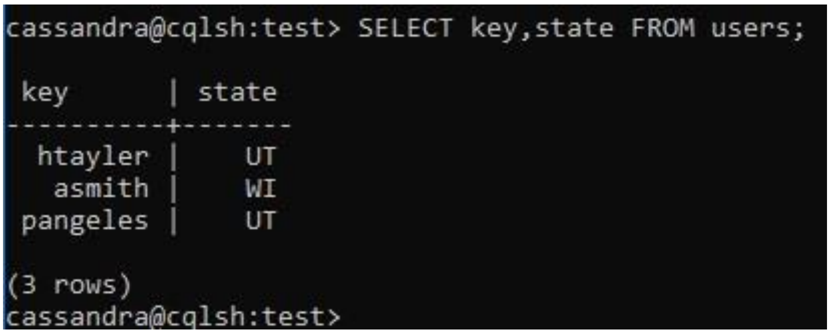
```
cassandra@cqlsh:test> CREATE INDEX ON users (birth_date);
cassandra@cqlsh:test> CREATE INDEX ON users (state);
cassandra@cqlsh:test>
```

The student could obtain the fullname and emails from users using a condition



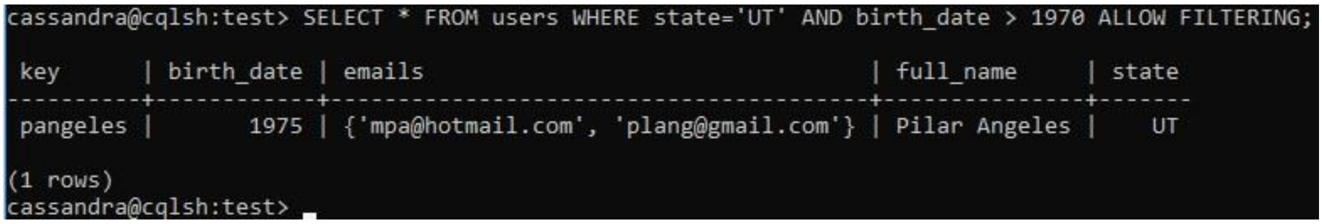
```
cassandra@cqlsh:test> Select full_name,emails from users where key='pangeles';

 full_name     | emails
---------------+----------------------------------------
 Pilar Angeles | {'mpa@hotmail.com', 'plang@gmail.com'}

(1 rows)
cassandra@cqlsh:test>
```

The student was able to obtain key, state from users



```
cassandra@cqlsh:test> SELECT key,state FROM users;

 key      | state
----------+-------
  htayler |    UT
   asmith |    WI
 pangeles |    UT

(3 rows)
cassandra@cqlsh:test>
```

The student could obtain all attributes from users that live in UT and were born after 1970



```
cassandra@cqlsh:test> SELECT * FROM users WHERE state='UT' AND birth_date > 1970 ALLOW FILTERING;

 key      | birth_date | emails                                 | full_name     | state
----------+------------+----------------------------------------+---------------+-------
 pangeles |       1975 | {'mpa@hotmail.com', 'plang@gmail.com'} | Pilar Angeles |    UT

(1 rows)
cassandra@cqlsh:test>
```