



Exercise 1 - Create a keyspace

The below command creates a keyspace called `training`, using `SimpleStrategy` and a `replication_factor` of 3.

`SimpleStrategy` is used when all the nodes in your cassandra cluster exist in a single data center.

On `cqlsh` run the below command.

- 1
 - 2
- ```
1. CREATE KEYSPACE training
2. WITH replication = {'class':'SimpleStrategy', 'replication_factor' : 3};
```

Copied!

List all keyspaces.

- 1
1. describe keyspaces

Copied!

## Exercise 2 - Describe a keyspace

In the previous exercise you have created a keyspace named `training`.

Let us print more details of it using the `describe` command.

Describe a keyspace.

- 1
1. describe training

Copied!

## Exercise 3 - Alter a keyspace

In a previous exercise you created a keyspace named `training` using `SimpleStrategy`.

Let us change that to use `NetworkTopologyStrategy`.

NetworkTopologyStrategy is used when all the nodes in your cassandra cluster are spread across multiple data centers.

Alter a keyspace.

```
1. 1
2. 2

1. ALTER KEYSPACE training
2. WITH replication = {'class': 'NetworkTopologyStrategy'};
```

Copied!

Verify the changes using the describe command.

```
1. 1

1. describe training
```

Copied!

## Exercise 4 - Use a keyspace

To use a keyspace run the below command.

```
1. 1

1. use training;
```

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List all tables in this keyspace.

```
1. 1

1. describe tables
```

Copied!

You will get an empty list because we do not have any tables yet.

## Exercise 5 - Drop a keyspace

To drop a keyspace run the below command.

```
1. 1

1. drop keyspace training;
```

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Verify the changes using the describe command.

```
1. 1
2. 2

1. use system;
2. describe keyspaces
```

Copied!

## Practice exercises

1. Problem: Create a keyspace named `sales` using `SimpleStrategy` and a replication factor of 1.

- ▶ [Click here for Hint](#)
- ▶ [Click here for Solution](#)

2. Problem: Change the replication factor to 3 for the `sales` keyspace.

- ▶ [Click here for Hint](#)
- ▶ [Click here for Solution](#)

3. Problem: Drop the `sales` keyspace.

- ▶ [Click here for Hint](#)
- ▶ [Click here for Solution](#)