## Transformations and Actions: Takeaways



by Dataquest Labs, Inc. - All rights reserved © 2021

## Syntax

• Generate a sequence of values from an RDD:

```
def hamlet_speaks(line):
    id = line[0]
    speaketh = False

if "HAMLET" in line:
        speaketh = True

if speaketh:
        yield id,"hamlet speaketh!"

hamlet_spoken = split_hamlet.flatMap(lambda x: hamlet_speaks(x))
```

• Return the number of elements in an RDD:

```
hamlet_spoken_lines.count()
```

• Return a list representation of an RDD:

```
hamlet_spoken_lines.collect()
```

## Concepts

- yield is a Python technique that allows the interpreter to generate data as they work and pull it when necessary, as opposed to storing to the memory immediately.
- Spark takes advantage of 'yield' to improve the speed of computations.
- flatMap() is useful when you want to generate a sequence of values from an RDD.

## Resources

- Python yield
- <u>Difference between map and flatMap in Apache Spark</u>

Takeaways by Dataquest Labs, Inc. - All rights reserved  $\ \odot$  2021