**Transformations and Actions**

There are two types of functions in Spark:

1. **Transformations**
2. **Actions**

Spark uses **lazy evaluation** to evaluate RDD and dataframe. Lazy evaluation means the code is not executed until it is needed. The **action** functions trigger the lazily evaluated functions.

For example,

df = spark.**read**.load("some csv file")

df1 = df.**select**("some column").filter("some condition")

df1.**write**("to path")

* In this code, select and filter are **transformation functions**, and write is an **action function**.
* If you execute this code line by line, the second line will be loaded, but you **will not see the function being executed in your Spark UI**.
* When you actually **execute using action** write, then you will see your Spark program being executed:
  + select --> filter --> write chained in Spark UI
  + but you will only see Writeshow up under your tasks.

This is significant because you can chain your **RDD** or dataframe as much as you want, but it might not do anything until you actually **trigger** with some **action words**. And if you have lengthy **transformations**, then it might take your executors quite some time to complete all the tasks.

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