



Apache Spark

Transformations and Actions

Spark Transformations



`spark.read.csv()`

Timestamp	Age	Gender	Country	state
2014-08-27 11:29:31	37	Female	United States	IL
2014-08-27 11:29:37	44	M	United States	IN
2014-08-27 11:29:44	32	Male	Canada	
2014-08-27 11:29:46	31	Male	United Kingdom	
2014-08-27 11:30:22	31	Male	United States	TX

`select(Age,
Gender,
Country,
state)`

Age	Gender	Country	state
37	Female	United States	IL
44	M	United States	IN
32	Male	Canada	
31	Male	United Kingdom	
31	Male	United States	TX

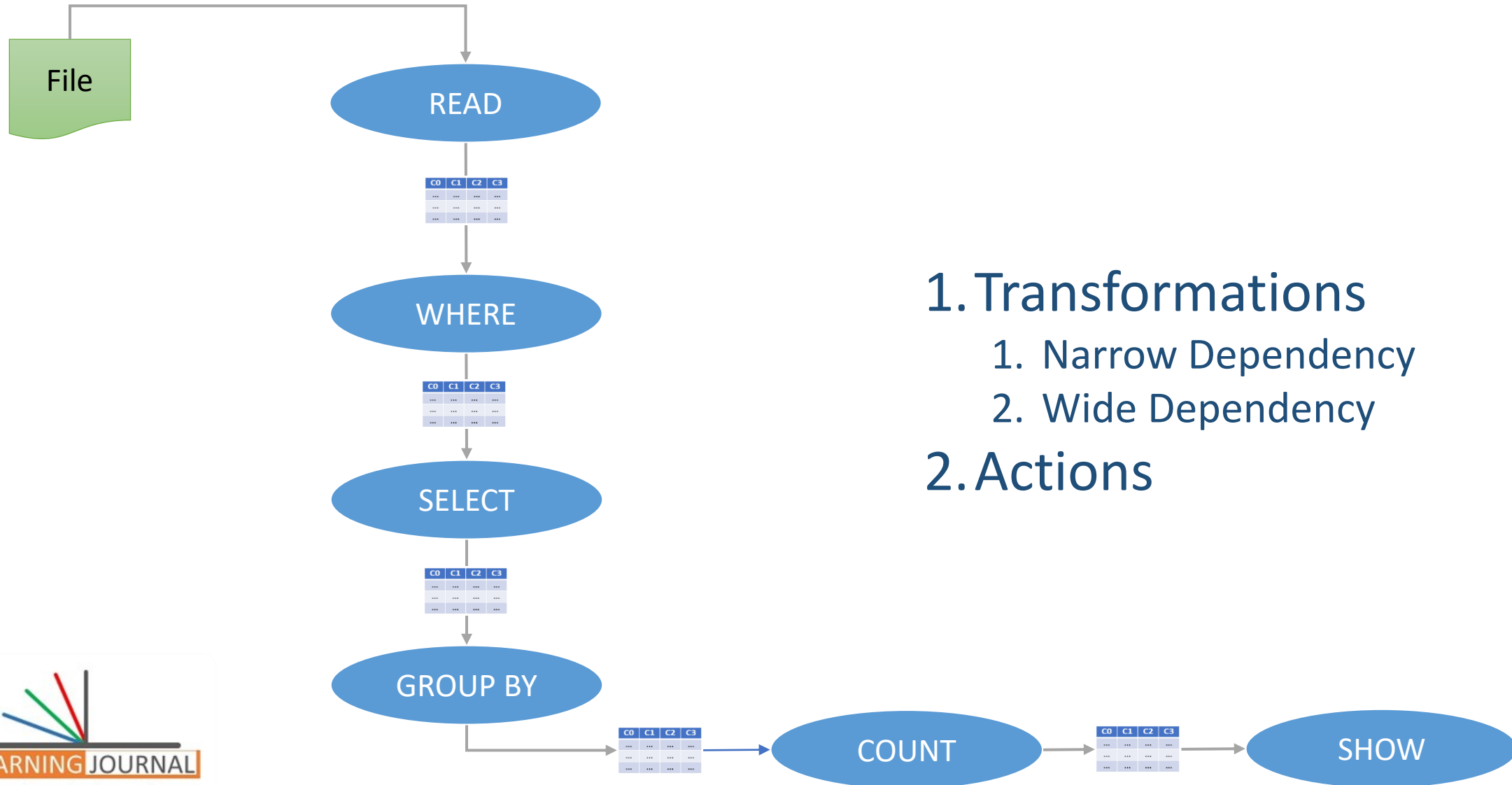
`filter(Age<40)`

Age	Gender	Country	state
37	Female	United States	IL
32	Male	Canada	
31	Male	United Kingdom	
31	Male	United States	TX

`groupBy(country)
.count()`

Country	Count
United States	2
Canada	1
United Kingdom	1

Spark Operations



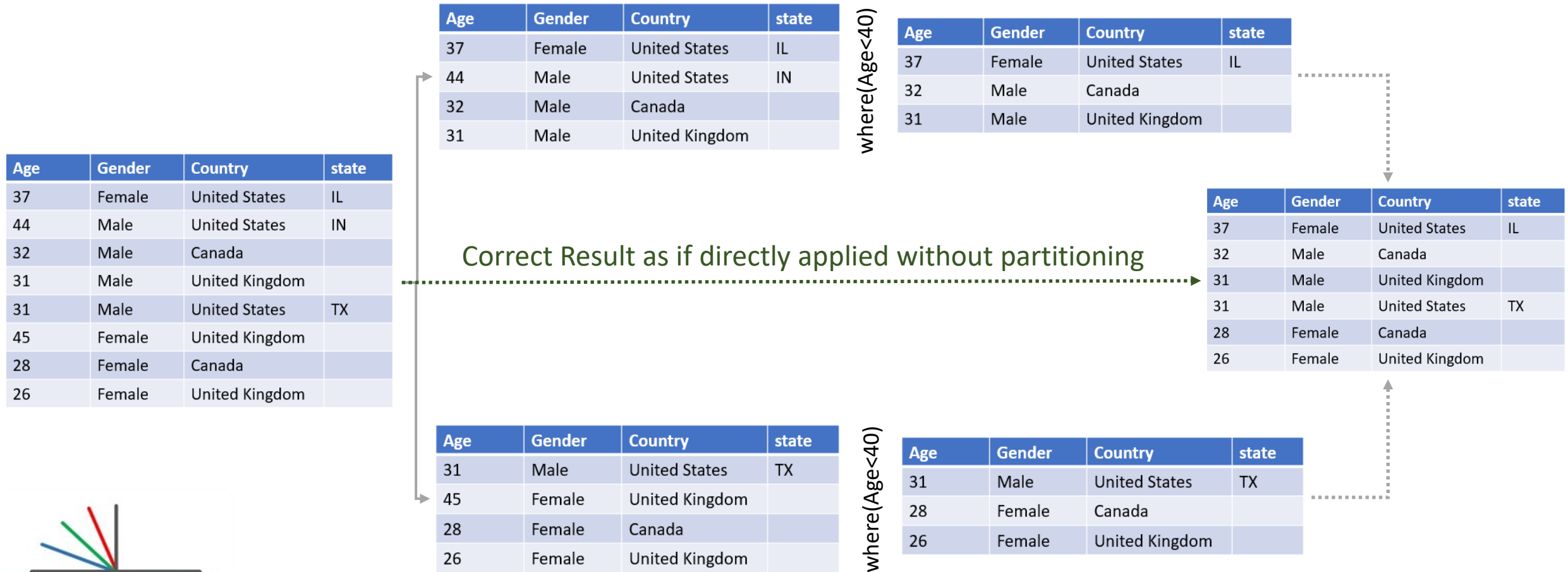
1. Transformations

1. Narrow Dependency
2. Wide Dependency

2. Actions

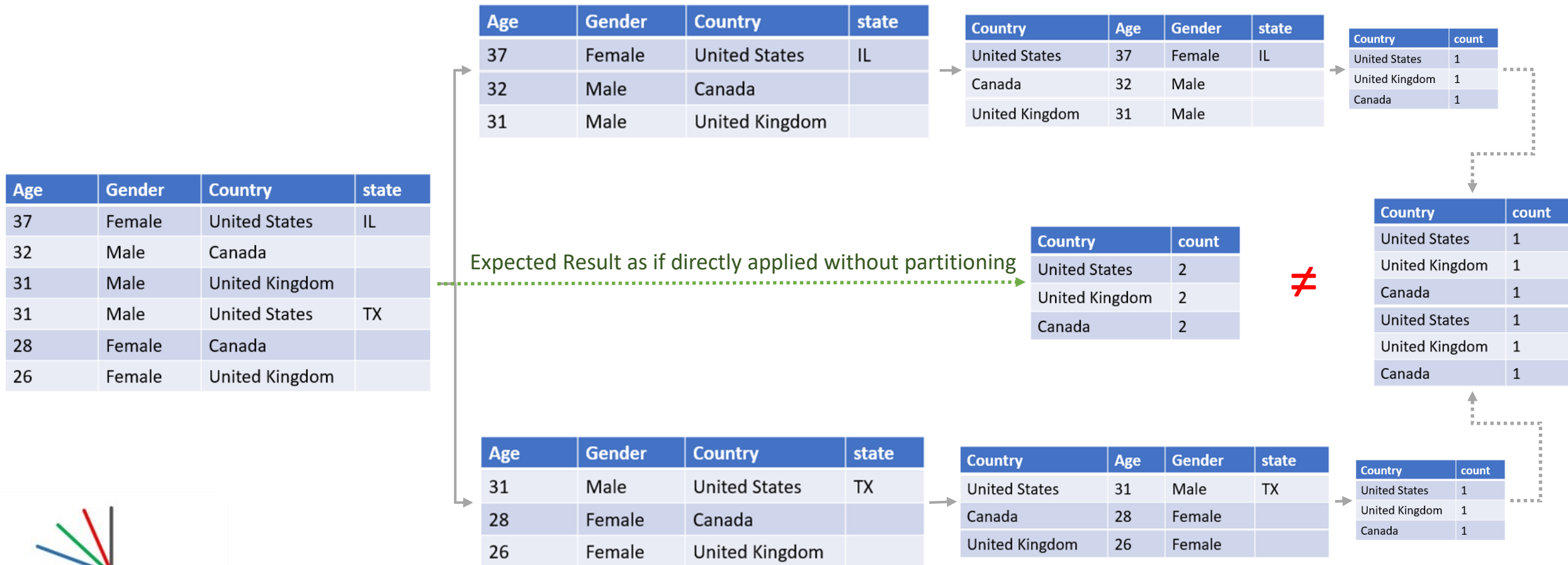
Narrow Dependency Transformation

A transformation performed independently on a single partition to produce valid results.



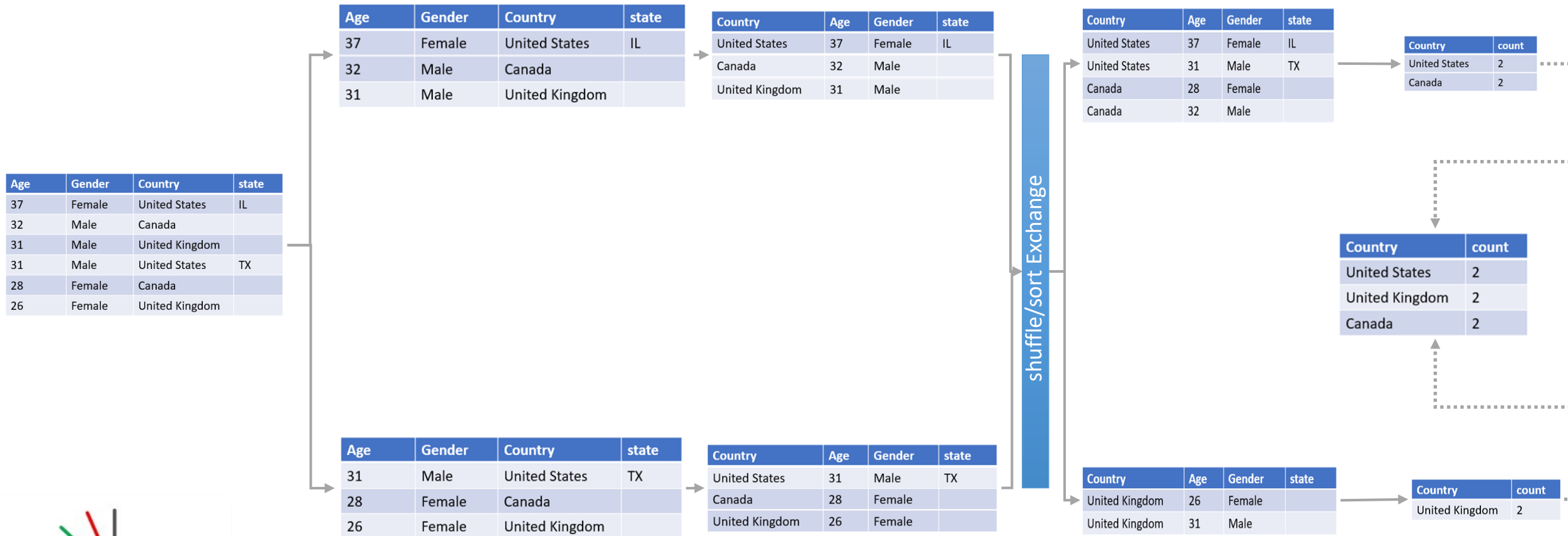
Wide Dependency Transformation

A transformation that requires data from other partitions to produce valid results.

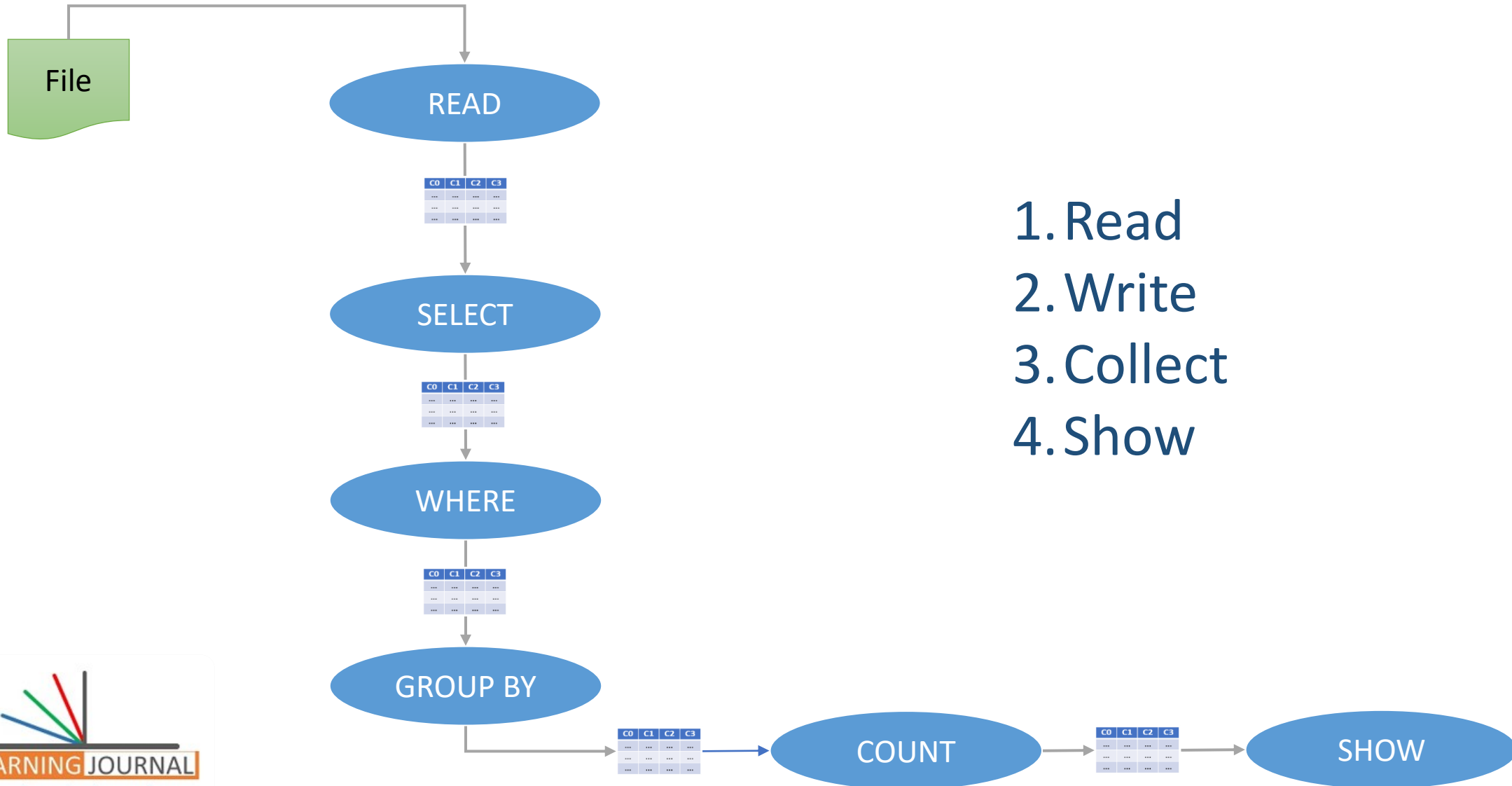


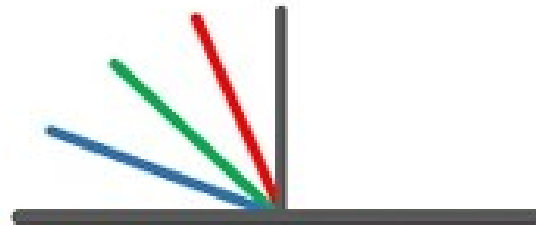
Wide Dependency Transformation

A transformation that requires data from other partitions to produce valid results.



Spark Actions





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