


```
Administrator: Command Prompt - spark-shell

[Stage 0:=====] <20 + 2> / 22]
[Stage 0:=====] <21 + 1> / 22]

res2: Long = 27262976

scala> clear
<console>:24: error: not found: value clear
  clear
  ^

scala> clear()
<console>:24: error: not found: value clear
  clear()
  ^

scala> cls
<console>:24: error: not found: value cls
  cls
  ^

scala> var blackcards = cards.filter(value => value.contains("BLACK"))
blackcards: org.apache.spark.rdd.RDD[String] = MapPartitionsRDD[3] at filter at
<console>:25
scala>
```

3 Counting Black Cards

```
Administrator: Command Prompt - spark-shell

<console>:24: error: not found: value cls
  cls
  ^

scala> var blackcards = cards.filter(value => value.contains("BLACK"))
blackcards: org.apache.spark.rdd.RDD[String] = MapPartitionsRDD[3] at filter at
<console>:25

scala> blackcards.count()
[Stage 1:] <0 + 4> / 22]
[Stage 1:==> <1 + 4> / 22]
[Stage 1:===== <4 + 4> / 22]
[Stage 1:===== <7 + 4> / 22]
[Stage 1:===== <8 + 4> / 22]
[Stage 1:===== <12 + 4> / 22]
[Stage 1:===== <14 + 5> / 22]
[Stage 1:===== <16 + 4> / 22]
[Stage 1:===== <17 + 4> / 22]
[Stage 1:===== <19 + 3> / 22]
[Stage 1:===== <20 + 2> / 22]
[Stage 1:===== <21 + 1> / 22]

res6: Long = 27262976

scala>
```

4 Filter Black Queens from Cards

```
Administrator: Command Prompt - spark-shell

!>
<console>:25: error: type mismatch;
 found   : String("q")
 required: Int
    var blackqueens =cards.filter(value => value.contains("BLACK")).filter(va
lue => value("q"))
    ^

scala> var blackqueens =cards.filter(value => value.contains("BLACK")).filter(va
lue => value("q"))
<console>:25: error: type mismatch;
 found   : String("q")
 required: Int
    var blackqueens =cards.filter(value => value.contains("BLACK")).filter(va
lue => value("q"))
    ^

scala> var blackqueens =cards.filter(value => value.contains("BLACK")).filter(va
lue => value.contains("Q"))
blackqueens: org.apache.spark.rdd.RDD[String] = MapPartitionsRDD[5] at filter at
<console>:25
scala>
```

5 Count Black Queens from Cards

```
Administrator: Command Prompt - spark-shell

scala> var blackqueens =cards.filter(value => value.contains("BLACK")).filter(va
lue => value.contains("Q"))
blackqueens: org.apache.spark.rdd.RDD[String] = MapPartitionsRDD[5] at filter at
<console>:25

scala> blackqueens.count()
[Stage 2:]< (0 + 4) / 221
[Stage 2:=====> (4 + 4) / 221
[Stage 2:=====> (8 + 4) / 221
[Stage 2:=====> (9 + 4) / 221
[Stage 2:=====> (11 + 4) / 221
[Stage 2:=====> (12 + 4) / 221
[Stage 2:=====> (13 + 4) / 221
[Stage 2:=====> (16 + 4) / 221
[Stage 2:=====> (17 + 4) / 221
[Stage 2:=====> (19 + 3) / 221
[Stage 2:=====> (20 + 2) / 221
[Stage 2:=====> (21 + 1) / 221

res7: Long = 2097152
scala>
```