

Scala-Gradle Application

Calculate the number of black queens present in deckofcards

The screenshot displays an IDE window for a project named 'CardTest'. The main editor shows the file 'TestDeckofcards.scala' with the following Scala code:

```
object TestDeckofcards {  
  def main(args:Array[String]):Unit = {  
    val session = SparkSession.builder().appName(name = "CardTest")  
      .config("spark.master","local").getOrCreate();  
    val sc = session.sparkContext  
    val cards = sc.textFile( path = "file:/0:/bigdata/BigData103/BigDataHadoop103/sample_data/deckofcards.txt")  
    println("The number of cards present in deckofcards is " + cards.count())  
    val blackQueenCount = cards.filter(value => value.contains("BLACK")).filter(value=>value.contains("Q"))  
    println("Black Queen Cards = "+blackQueenCount.count())  
  }  
}
```

The left sidebar shows the project structure with folders for '.gradle', '.idea', 'build', 'gradle', 'src', 'resources', 'scala', 'test', 'build.gradle', and 'gradlew'. The 'TestDeckofcards' file is highlighted under the 'scala' folder.

The bottom panel shows the 'Run' configuration for 'CardTest [TestDeckofcards.main()]'. The execution log displays the following output:

```
21/06/22 15:46:18 INFO TaskSetManager: Finished task 0.0 in stage 1.0 (TID 1) in 62 ms on ARIF (execu  
21/06/22 15:46:18 INFO TaskSchedulerImpl: Removed TaskSet 1.0, whose tasks have all completed, from  
21/06/22 15:46:18 INFO DAGScheduler: ResultStage 1 (count at TestDeckofcards.scala:11) finished in 0  
21/06/22 15:46:18 INFO DAGScheduler: Job 1 is finished. Cancelling potential speculative or zombie t  
21/06/22 15:46:18 INFO TaskSchedulerImpl: Killing all running tasks in stage 1: Stage finished  
21/06/22 15:46:18 INFO DAGScheduler: Job 1 finished: count at TestDeckofcards.scala:11, took 0.28192  
21/06/22 15:46:18 INFO SparkContext: Invoking stop() from shutdown hook  
Black Queen Cards = 2  
21/06/22 15:46:18 INFO SparkUI: Stopped Spark web UI at http://ARIF:4040
```

The bottom status bar indicates 'Gradle sync finished in 3 m 52 s 677 ms (3 minutes ago)' and shows the 'Event Log' and 'SBT Execute' buttons.