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\nimport scala.collection.mutable.HashMap\n\nimport java.io.File\n
\nimport org.apache.log4j.Logger\n\nimport org.apache.log4j.Level\n
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(apiKey: String, apiSecret: String, accessToken: String,
accessTokenSecret: String)Unit\n"},"text":"def
configureTwitterCredentials(apiKey: String, apiSecret: String,
accessToken: String, accessTokenSecret: String) {\n val configs = new
HashMap[String, String] ++= Seq(\n
                                       \"apiKey\" -> apiKey,
\"apiSecret\" -> apiSecret, \"accessToken\" -> accessToken,
\"accessTokenSecret\" -> accessTokenSecret)\n println(\"Configuring
Twitter OAuth\")\n configs.foreach{ case(key, value) =>\n
(value.trim.isEmpty) {\n
                              throw new Exception(\"Error setting
authentication - value for \" + key + \" not set\")\n
                                                          }\n
fullKey = \"twitter4j.oauth.\" + key.replace(\"api\", \"consumer\")\n
System.setProperty(fullKey, value.trim)\n println(\"\\tProperty \"
+ fullKey + \" set as [\" + value.trim + \"]\")\n }\n println()
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String = 824754619410685952-XvZlGd9Qti3qSK3pMQ1G2tWI1uSlDQ0\n
\naccessTokenSecret: String =
MEB0zT03yMJyEuNcPQS07peZWd0G0xUX8D1zh9e8jhA0p\nConfiguring Twitter
OAuth\n\tProperty twitter4j.oauth.consumerKey set as
[FoavevZ4Zztco2oxF8EqhjhHf]\n\tProperty twitter4j.oauth.accessToken
set as [824754619410685952-XvZlGd9Qti3qSK3pMQ1G2tWI1uSlDQ0]\n
\tProperty twitter4j.oauth.consumerSecret set as
[hWyH6kLyHstAReqHX4tZRYIBILzprN1fNndKPTEAkIDipZ0Xas]\n\tProperty
twitter4i.oauth.accessTokenSecret set as
[MEB0zT03yMJyEuNcPQS07peZWd0G0xUX8D1zh9e8jhA0p]\n\n"},"text":"val
apiKey = \"FoayeyZ4Zztco2oxF8EghjhHf\"\nval apiSecret =
\"hWvH6kLvHstAReqHX4tZRYIBILzprN1fNndKPTEAkIDipZ0Xas\"\nval
accessToken =\"824754619410685952-XvZlGd9Qti3gSK3pMQ1G2tWI1uSlDQ0\"
\nval accessTokenSecret=
\"MEB0zT03yMJyEuNcP0S07peZWd0G0xUX8D1zh9e8jhA0p
\"\nconfigureTwitterCredentials(apiKey, apiSecret, accessToken,
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org.apache.spark.streaming.twitter. \n\nssc:
org.apache.spark.streaming.StreamingContext =
org.apache.spark.streaming.StreamingContext@48f71e40\n\ntweets:
org.apache.spark.streaming.dstream.ReceiverInputDStream[twitter4j.Stat
us] = org.apache.spark.streaming.twitter.TwitterInputDStream@642e853e
\n\ntwt: org.apache.spark.streaming.dstream.DStream[twitter4j.Status]
= org.apache.spark.streaming.dstream.WindowedDStream@2205cbc4\n
\ndefined class Tweet\n\nwarning: there was one deprecation warning;
re-run with -deprecation for details\n"},"text":"import
org.apache.spark.streaming.twitter._\nval ssc = new
StreamingContext(sc, Seconds(2))\nval tweets =
TwitterUtils.createStream(ssc, None)\nval twt =
tweets.window(Seconds(60))\n\ncase class Tweet(createdAt:Long,
text:String)\ntwt.map(status=>\n
Tweet(status.getCreatedAt().getTime()/1000, status.getText())
\n).foreachRDD(rdd=>\n // Below line works only in spark 1.3.0.\n //
For spark 1.1.x and spark 1.2.x,\n // use
```

```
rdd.registerTempTable(\"tweets\") instead.\n
rdd.toDF().registerTempTable(\"trump\")\n)\n"},{"config":{"colWidth":
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org.apache.spark.rdd.RDD[String] = /bank/bank-full.csv
MapPartitionsRDD[2642] at textFile at <console>:46\n\ndefined class
Bank\n"},"text":"val bankText = sc.textFile(\"/bank/bank-full.csv\")\n
\ncase class Bank(age:Integer, job:String, marital : String,
education : String, balance : Integer)\n"},{"config":{"colWidth":
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found: value al\nval $ires15 = al.bank\n
                                                         ^\n\n\n
\n<console>:50: error: not found: value al\n
                                                     al bank =
bankText.map(s=>s.split(\";\")).filter(s=>s(0)!=\"\\\"age\\
\"\").map(\n
                    ^\n"},"text":"al bank = bankText.map(s=>s.split(\";
\")).filter(s=>s(0)!=\"\\\"age\\\"\").map(\n
                                                  s=>Bank(s(0).toInt, \n
s(1).replaceAll(\"\\\"\", \"\"),\n
                                                s(2).replaceAll(\"\\
\"\", \"\"),\n s(3).replaceAll(\"\\\"\", \"\"),\n s(5).replaceAll(\"\\\"\", \"\").toInt\n )\n)"},{"confi
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org.apache.spark.rdd.RDD[Bank] = MapPartitionsRDD[2060] at map at
<console>:50\n"},"text":"val bank = bankText.map(s=>s.split(\";
\")).filter(s=>s(0)!=\"\\\"age\\\"\").map(\n
                                                 s=>Bank(s(0).toInt, \n
s(1).replaceAll(\"\\\"\", \"\"),\n
                                               s(2).replaceAll(\"\\
                           s(3).replaceAll(\"\\\"\", \"\"),\n
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s(5).replaceAll(\"\\"\", \"\").toInt\n
                                                )\n)"},{"config":
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expected but '.' found.\nbank.toDF().registerTempTable(\"bank
\")bank.toDF().registerTempTable(\"bank\")\n
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\")bank.toDF().registerTempTable(\"bank\")"},{"config":{"colWidth":
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Exception: Class
'org.apache.spark.sql.catalyst.expressions.codegen.GeneratedClass' was
loaded through a different loader\n\tat
org.codehaus.janino.SimpleCompiler$1.getDelegate(SimpleCompiler.java:
337)\n\tat org.codehaus.janino.SimpleCompiler
$1.accept(SimpleCompiler.java:291)\n\tat
org.codehaus.janino.UnitCompiler.getType(UnitCompiler.java:5159)\n\tat
org.codehaus.janino.UnitCompiler.access$16700(UnitCompiler.java:185)\n
```

```
\tat org.codehaus.janino.UnitCompiler
$29.getSuperclass2(UnitCompiler.java:8154)\n\tat
org.codehaus.janino.IClass.getSuperclass(IClass.java:406)\n\tat
org.codehaus.janino.IClass.findMemberType(IClass.java:766)\n\tat
org.codehaus.janino.IClass.findMemberType(IClass.java:733)\n\tat
org.codehaus.janino.UnitCompiler.findMemberType(UnitCompiler.java:
10116)\n\tat
org.codehaus.janino.UnitCompiler.getReferenceType(UnitCompiler.java:
5300)\n\tat
org.codehaus.janino.UnitCompiler.getReferenceType(UnitCompiler.java:
5207)\n\tat
org.codehaus.janino.UnitCompiler.getType2(UnitCompiler.java:5188)\n
\tat org.codehaus.janino.UnitCompiler.access$12600(UnitCompiler.java:
185)\n\tat org.codehaus.janino.UnitCompiler
$16.visitReferenceType(UnitCompiler.java:5119)\n\tat
org.codehaus.janino.Java$ReferenceType.accept(Java.java:2880)\n\tat
org.codehaus.janino.UnitCompiler.getType(UnitCompiler.java:5159)\n\tat
org.codehaus.janino.UnitCompiler.getType2(UnitCompiler.java:5414)\n
\tat org.codehaus.janino.UnitCompiler.access$12400(UnitCompiler.java:
185)\n\tat org.codehaus.janino.UnitCompiler
$16.visitArrayType(UnitCompiler.java:5117)\n\tat
org.codehaus.janino.Java$ArrayType.accept(Java.java:2954)\n\tat
org.codehaus.janino.UnitCompiler.getType(UnitCompiler.java:5159)\n\tat
org.codehaus.janino.UnitCompiler.access$16700(UnitCompiler.java:185)\n
\tat org.codehaus.janino.UnitCompiler
$31.getParameterTypes2(UnitCompiler.java:8533)\n\tat
org.codehaus.janino.IClass$IInvocable.getParameterTypes(IClass.java:
835)\n\tat org.codehaus.janino.IClass
$IMethod.getDescriptor2(IClass.java:1063)\n\tat
org.codehaus.janino.IClass$IInvocable.getDescriptor(IClass.java:849)\n
\tat org.codehaus.janino.IClass.getIMethods(IClass.java:211)\n\tat
org.codehaus.janino.IClass.getIMethods(IClass.java:199)\n\tat
org.codehaus.janino.UnitCompiler.compile2(UnitCompiler.java:409)\n\tat
org.codehaus.janino.UnitCompiler.compile2(UnitCompiler.java:393)\n\tat
org.codehaus.janino.UnitCompiler.access$400(UnitCompiler.java:185)\n
\tat org.codehaus.janino.UnitCompiler
$2.visitPackageMemberClassDeclaration(UnitCompiler.java:347)\n\tat
org.codehaus.janino.Java
$PackageMemberClassDeclaration.accept(Java.java:1139)\n\tat
org.codehaus.janino.UnitCompiler.compile(UnitCompiler.java:354)\n\tat
org.codehaus.janino.UnitCompiler.compileUnit(UnitCompiler.java:322)\n
\tat
org.codehaus.janino.SimpleCompiler.compileToClassLoader(SimpleCompiler
.java:383)\n\tat
org.codehaus.janino.ClassBodyEvaluator.compileToClass(ClassBodyEvaluat
or.java:315)\n\tat
org.codehaus.janino.ClassBodyEvaluator.cook(ClassBodyEvaluator.java:
233)\n\tat
org.codehaus.janino.SimpleCompiler.cook(SimpleCompiler.java:192)\n\tat
org.codehaus.commons.compiler.Cookable.cook(Cookable.java:84)\n\tat
```

```
org.apache.spark.sql.catalyst.expressions.codegen.CodeGenerator$.org
$apache$spark$sql$catalyst$expressions$codegen$CodeGenerator$
$doCompile(CodeGenerator.scala:883)\n\tat
org.apache.spark.sql.catalyst.expressions.codegen.CodeGenerator$$anon
$1.load(CodeGenerator.scala:941)\n\tat
org.apache.spark.sql.catalyst.expressions.codegen.CodeGenerator$$anon
$1.load(CodeGenerator.scala:938)\n\tat
org.spark project.guava.cache.LocalCache
$LoadingValueReference.loadFuture(LocalCache.java:3599)\n\tat
org.spark_project.guava.cache.LocalCache
$Segment.loadSync(LocalCache.java:2379)\n\tat
org.spark_project.guava.cache.LocalCache
$Segment.lockedGetOrLoad(LocalCache.java:2342)\n\tat
org.spark_project.guava.cache.LocalCache$Segment.get(LocalCache.java:
2257)\n\tat
org.spark_project.guava.cache.LocalCache.get(LocalCache.java:4000)\n
\tat
org.spark_project.guava.cache.LocalCache.getOrLoad(LocalCache.java:
4004)\n\tat org.spark_project.guava.cache.LocalCache
$LocalLoadingCache.get(LocalCache.java:4874)\n\tat
org.apache.spark.sql.catalyst.expressions.codegen.CodeGenerator
$.compile(CodeGenerator.scala:837)\n\tat
org.apache.spark.sql.catalyst.expressions.codegen.GenerateOrdering
$.create(GenerateOrdering.scala:146)\n\tat
org.apache.spark.sql.catalyst.expressions.codegen.GenerateOrdering
$.create(GenerateOrdering.scala:43)\n\tat
org.apache.spark.sql.catalyst.expressions.codegen.CodeGenerator.genera
te(CodeGenerator.scala:821)\n\tat
org.apache.spark.sql.catalyst.expressions.codegen.LazilyGeneratedOrder
ing.<init>(GenerateOrdering.scala:160)\n\tat
org.apache.spark.sql.catalyst.expressions.codegen.LazilyGeneratedOrder
ing.<init>(GenerateOrdering.scala:157)\n\tat
org.apache.spark.sql.execution.TakeOrderedAndProjectExec.executeCollec
t(limit.scala:127)\n\tat org.apache.spark.sql.Dataset$$anonfun$org
$apache$spark$sql$Dataset$$execute$1$1.apply(Dataset.scala:2183)\n\tat
org.apache.spark.sql.execution.SQLExecution
$.withNewExecutionId(SQLExecution.scala:57)\n\tat
org.apache.spark.sql.Dataset.withNewExecutionId(Dataset.scala:2532)\n
\tat org.apache.spark.sql.Dataset.org$apache$spark$sql$Dataset$
$execute$1(Dataset.scala:2182)\n\tat org.apache.spark.sgl.Dataset.org
$apache$spark$sql$Dataset$$collect(Dataset.scala:2189)\n\tat
org.apache.spark.sql.Dataset$$anonfun$head$1.apply(Dataset.scala:
1925)\n\tat org.apache.spark.sql.Dataset$$anonfun$head
$1.apply(Dataset.scala:1924)\n\tat
org.apache.spark.sql.Dataset.withTypedCallback(Dataset.scala:2562)\n
\tat org.apache.spark.sql.Dataset.head(Dataset.scala:1924)\n\tat
org.apache.spark.sql.Dataset.take(Dataset.scala:2139)\n\tat
sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)\n\tat
sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.j
ava:62)\n\tat
```

```
sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccess
orImpl.java:43)\n\tat java.lang.reflect.Method.invoke(Method.java:
498)\n\tat
org.apache.zeppelin.spark.ZeppelinContext.showDF(ZeppelinContext.java:
216)\n\tat
org.apache.zeppelin.spark.SparkSqlInterpreter.interpret(SparkSqlInterp
reter.java:129)\n\tat
org.apache.zeppelin.interpreter.LazyOpenInterpreter.interpret(LazyOpen
Interpreter.java:94)\n\tat
org.apache.zeppelin.interpreter.remote.RemoteInterpreterServer
$InterpretJob.iobRun(RemoteInterpreterServer.iava:341)\n\tat
org.apache.zeppelin.scheduler.Job.run(Job.java:176)\n\tat
org.apache.zeppelin.scheduler.FIFOScheduler$1.run(FIFOScheduler.java:
139)\n\tat java.util.concurrent.Executors
$RunnableAdapter.call(Executors.java:511)\n\tat
java.util.concurrent.FutureTask.run(FutureTask.java:266)\n\tat
java.util.concurrent.ScheduledThreadPoolExecutor
$ScheduledFutureTask.access$201(ScheduledThreadPoolExecutor.java:
180)\n\tat java.util.concurrent.ScheduledThreadPoolExecutor
$ScheduledFutureTask.run(ScheduledThreadPoolExecutor.java:293)\n\tat
java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.j
ava:1142)\n\tat java.util.concurrent.ThreadPoolExecutor
$Worker.run(ThreadPoolExecutor.java:617)\n\tat
java.lang.Thread.run(Thread.java:745)\n"},"text":"%sql select age,
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nputException: Input path does not exist: file:/Users/skondagadapu/
Desktop/zeppelin-0.6.2-bin-all/yourPath/bank/bank-full.csv\n\tat
org.apache.hadoop.mapred.FileInputFormat.singleThreadedListStatus(File
InputFormat.java:285)\n\tat
org.apache.hadoop.mapred.FileInputFormat.listStatus(FileInputFormat.ja
va:228)\n\tat
org.apache.hadoop.mapred.FileInputFormat.getSplits(FileInputFormat.jav
a:304)\n\tat
org.apache.spark.rdd.HadoopRDD.getPartitions(HadoopRDD.scala:200)\n
\tat org.apache.spark.rdd.RDD$$anonfun$partitions$2.apply(RDD.scala:
248)\n\tat org.apache.spark.rdd.RDD$$anonfun$partitions
$2.apply(RDD.scala:246)\n\tat scala.Option.getOrElse(Option.scala:
121)\n\tat org.apache.spark.rdd.RDD.partitions(RDD.scala:246)\n\tat
org.apache.spark.rdd.MapPartitionsRDD.getPartitions(MapPartitionsRDD.s
cala:35)\n\tat org.apache.spark.rdd.RDD$$anonfun$partitions
$2.apply(RDD.scala:248)\n\tat org.apache.spark.rdd.RDD$$anonfun
```

```
$partitions$2.apply(RDD.scala:246)\n\tat
scala.Option.getOrElse(Option.scala:121)\n\tat
org.apache.spark.rdd.RDD.partitions(RDD.scala:246)\n\tat
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$2.apply(RDD.scala:248)\n\tat org.apache.spark.rdd.RDD$$anonfun
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scala.Option.getOrElse(Option.scala:121)\n\tat
org.apache.spark.rdd.RDD.partitions(RDD.scala:246)\n\tat
org.apache.spark.ShuffleDependency.<init>(Dependency.scala:91)\n\tat
org.apache.spark.sql.execution.exchange.ShuffleExchange
$.prepareShuffleDependency(ShuffleExchange.scala:262)\n\tat
org.apache.spark.sql.execution.exchange.ShuffleExchange.prepareShuffle
Dependency(ShuffleExchange.scala:85)\n\tat
```

```
org.apache.spark.sql.execution.exchange.ShuffleExchange$$anonfun
$doExecute$1.apply(ShuffleExchange.scala:122)\n\tat
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$doExecute$1.apply(ShuffleExchange.scala:113)\n\tat
org.apache.spark.sql.catalyst.errors.package
$.attachTree(package.scala:49)\n\tat
org.apache.spark.sql.execution.exchange.ShuffleExchange.doExecute(Shuf
fleExchange.scala:113)\n\tat org.apache.spark.sgl.execution.SparkPlan$
$anonfun$execute$1.apply(SparkPlan.scala:115)\n\tat
org.apache.spark.sql.execution.SparkPlan$$anonfun$execute
$1.applv(SparkPlan.scala:115)\n\tat
org.apache.spark.sql.execution.SparkPlan$$anonfun$executeQuery
$1.apply(SparkPlan.scala:136)\n\tat
org.apache.spark.rdd.RDDOperationScope
$.withScope(RDDOperationScope.scala:151)\n\tat
org.apache.spark.sql.execution.SparkPlan.executeQuery(SparkPlan.scala:
133)\n\tat
org.apache.spark.sql.execution.SparkPlan.execute(SparkPlan.scala:
114)\n\tat
org.apache.spark.sql.execution.InputAdapter.inputRDDs(WholeStageCodege
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org.apache.spark.sql.execution.aggregate.HashAggregateExec.inputRDDs(H
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org.apache.spark.sql.execution.WholeStageCodegenExec.doExecute(WholeSt
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org.apache.spark.sql.execution.SparkPlan$$anonfun$execute
$1.apply(SparkPlan.scala:115)\n\tat
org.apache.spark.sql.execution.SparkPlan$$anonfun$execute
$1.apply(SparkPlan.scala:115)\n\tat
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org.apache.spark.sql.execution.SparkPlan.execute(SparkPlan.scala:
114)\n\tat
org.apache.spark.sql.execution.TakeOrderedAndProjectExec.executeCollec
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$apache$spark$sql$Dataset$$execute$1$1.apply(Dataset.scala:2183)\n\tat
org.apache.spark.sql.execution.SQLExecution
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org.apache.spark.sql.Dataset.withNewExecutionId(Dataset.scala:2532)\n
\tat org.apache.spark.sql.Dataset.org$apache$spark$sql$Dataset$
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$apache$spark$sql$Dataset$$collect(Dataset.scala:2189)\n\tat
org.apache.spark.sql.Dataset$$anonfun$head$1.apply(Dataset.scala:
1925)\n\tat org.apache.spark.sql.Dataset$$anonfun$head
$1.apply(Dataset.scala:1924)\n\tat
org.apache.spark.sql.Dataset.withTypedCallback(Dataset.scala:2562)\n
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\tat org.apache.spark.sql.Dataset.head(Dataset.scala:1924)\n\tat
org.apache.spark.sql.Dataset.take(Dataset.scala:2139)\n\tat
sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)\n\tat
sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.j
ava:62)\n\tat
sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccess
orImpl.java:43)\n\tat java.lang.reflect.Method.invoke(Method.java:
498)\n\tat
org.apache.zeppelin.spark.ZeppelinContext.showDF(ZeppelinContext.java:
216)\n\tat
org.apache.zeppelin.spark.SparkSqlInterpreter.interpret(SparkSqlInterp
reter.java:129)\n\tat
org.apache.zeppelin.interpreter.LazyOpenInterpreter.interpret(LazyOpen
Interpreter.java:94)\n\tat
org.apache.zeppelin.interpreter.remote.RemoteInterpreterServer
$InterpretJob.jobRun(RemoteInterpreterServer.java:341)\n\tat
org.apache.zeppelin.scheduler.Job.run(Job.java:176)\n\tat
org.apache.zeppelin.scheduler.FIFOScheduler$1.run(FIFOScheduler.java:
139)\n\tat java.util.concurrent.Executors
$RunnableAdapter.call(Executors.java:511)\n\tat
java.util.concurrent.FutureTask.run(FutureTask.java:266)\n\tat
java.util.concurrent.ScheduledThreadPoolExecutor
$ScheduledFutureTask.access$201(ScheduledThreadPoolExecutor.java:
180)\n\tat java.util.concurrent.ScheduledThreadPoolExecutor
$ScheduledFutureTask.run(ScheduledThreadPoolExecutor.java:293)\n\tat
java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.j
ava:1142)\n\tat java.util.concurrent.ThreadPoolExecutor
$Worker.run(ThreadPoolExecutor.java:617)\n\tat
java.lang.Thread.run(Thread.java:745)\n"},"text":"%sql select age,
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InputFormat.java:285)\n\tat
org.apache.hadoop.mapred.FileInputFormat.listStatus(FileInputFormat.ja
va:228)\n\tat
org.apache.hadoop.mapred.FileInputFormat.getSplits(FileInputFormat.jav
a:304)\n\tat
org.apache.spark.rdd.HadoopRDD.getPartitions(HadoopRDD.scala:200)\n
```

```
\tat org.apache.spark.rdd.RDD$$anonfun$partitions$2.apply(RDD.scala:
248)\n\tat org.apache.spark.rdd.RDD$$anonfun$partitions
$2.apply(RDD.scala:246)\n\tat scala.Option.getOrElse(Option.scala:
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\tat org.apache.spark.sql.Dataset.org$apache$spark$sql$Dataset$
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139)\n\tat java.util.concurrent.Executors
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```
'|', '^', 'SORT', 'CLUSTER', 'DISTRIBUTE'}(line 2, pos 5)\n\n== SQL ==
\nselect age, count(1) from bank where age < 30 group by age order by
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order by age\n----^^\n\nset zeppelin.spark.sgl.stacktrace = true to
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'|', '^', 'SORT', 'CLUSTER', 'DISTRIBUTE'}(line 2, pos 5)\n\n== SQL ==
\nselect age, count(1) from bank where age < 30 group by age order by
age\n%sql select age, count(1) from bank where age < 30 group by age
order by age\n----^^\n%sql select age, count(1) from bank where
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