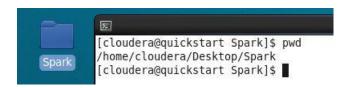
Spark 所讀取的資料位置 1-0.

\$ cd Desktop/Spark



2-0. 進入 Spark

\$ spark-shell

Welcome to



Using Scala version 2.10.4 (Java HotSpot(TM) 64-Bit Server VM, Java 1.7.0 67)

2-1.

```
Using Spark SQL by spark-shell
#-- SOL Context
         Entry point for all SQL functionality
          Wraps/extends existing SparkContext
Scala > val sqlContext = new org.apache.spark.sql.SQLContext(sc)
Scale > import sqlContext.
#-- 定義資料類別 boxLevel, 設定輸入資料型態
Scale > :paste
case class boxLevel(pkno: String, budget: Long, currency4wg: String,
weekendgross: Int, date: Int, screen: Int, level: Int)
val boxlevel = sc
.textFile("./data/boxLevelComplete.txt")
.map(_.split(","))
.map(p \Rightarrow boxLevel(p(0), p(1).trim.toLong, p(2), p(3).trim.toInt,
p(4).trim.toInt, p(5).trim.toInt, p(6).trim.toInt))
scala> :paste
// Entering paste mode (ctrl-D to finish)
// Define the schema using a case class.
case class boxLevel(pkno: String, budget: Long, currency4wg: String, weekendgross: Int, date: Int, screen: Int, level: Int) 一資料型態要正確
// Create an RDD of Person objects and register it as a table
// data source by cloudera
val boxlevel = sc
.textFile("./data/boxLevelComplete.txt")
.map(.split(","))
.map(.split(","))
.map(.split(","))
.map(.split(","))
.map(.split(","))
// Exiting paste mode, now interpreting.  \資料型態轉換
2015-01-13 00:24:26,809 INFO [main] storage.MemoryStore (Logging.scala:logInfo(59)) - ensureFreeSpace(177621) called with curMem=0, maxMem=278302556
2015-01-13 00:24:26,811 INFO [main] storage.MemoryStore (Logging.scala:logInfo(59)) - Block broadcast_0 stored as values in memory (estimated size 173.5 KB, free 265.2 MB) fefined class boxLevel — 類別定義成功 boxLevel: org.apache.spark.rdd.RDD[boxLevel] = MappedRDD[3] at map at <console>:16
```

```
#-- boxlevel 為 boxLevel 類別內的變數名稱,並給定表名稱為 boxLevelTable
Scale > boxlevel.registerTempTable("boxLevelTable")
#-- SQL statements can be run by using the sql methods provided by
      val sqlContext = new org.apache.spark.sql.SQLContext(sc)
Scale > val boxlevelsql = sql("SELECT * FROM boxLevelTable")
scala> boxlevel.registerTempTable("boxLevelTable") ←註冊表格
SchemaRDD[10] at RDD at SchemaRDD.scala:103
== Query Plan ==
== Physical Plan ==
ExistingRdd [pkno#0,budget#1L,currency4wg#2,weekendgross#3,date#4,screen#5,level#6], MapPartitionsRDD[8] at mapPartitions at basicOperators.scala:208
#-- The results of SQL queries are SchemaRDDs and support all the
normal RDD operations.
 The columns of a row in the result can be accessed by ordinal.
Scala > boxlevelsql.map(t \Rightarrow "pkno:" + t(0) + ", budget:" + t(1) + ",
currency4wg:" + t(2) + ", weekendgross:" + t(3) + ", date:" + t(4) + ",
screen:" + t(5) + ", level:" + t(6)).collect().foreach(println)
pkno:tt1631867, budget:178000000, currency4wg:USD, weekendgross:28760246, date:2014068, screen:67697892, level:3490
pkno:tt1430612, budget:28000000, currency4wg:USD, weekendgross:9516855, date:20140427, screen:15017249, level:2647
pkno:tt1408253, budget:25000000, currency4wg:USD, weekendgross:41237000, date:20140119, screen:106159970, level:2663
pkno:tt1843866, budget:170000000, currency4wg:USD, weekendgross:95023721, date:2014046, screen:199621771, level:3938
pkno:tt2771372, budget:6000000, currency4wg:USD, weekendgross:1988351, date:20140316, screen:2664765, level:291
pkno:tt2172934, budget:20000000, currency4wg:USD, weekendgross:21577049, date:2014076, screen:46565348, level:3465
pkno:tt2172934, budget:28000000, currency4wg:USD, weekendgross:12242218, date:20140223, screen:22947350, level:3872
pkno:tt2183034, budget:13000000, currency4wg:USD, weekendgross:82014076, screen:17571875, level:2872
pkno:tt2294449, budget:50000000, currency4wg:USD, weekendgross:57071445, date:20140615, screen:124660258, level:3306
               人查詢成功
scala>
```

#-- ver 20150113