BDA Assignment 2

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Answer 1: Loading the dependency.

```
scala> :require D:\myy.jar
Added 'D:\myy.jar' to classpath.
scala> import java.util.Properties
import java.util.Properties
```

```
scala> val connectionProperties = new Properties()
connectionProperties: java.util.Properties = {}
scala> connectionProperties.setProperty("Driver", "org.postgresql.Driver")
res14: Object = null
```

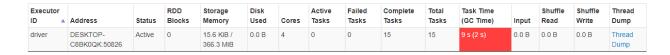
```
scala> val url = "jdbc:postgresql://localhost:5432/BDA?user=postgres&password=""
url: String = jdbc:postgresql://localhost:5432/BDA?user=postgres&password="""
```

We executed all the query from .scala file (attached).

In the spark shell just run the following command to execute all the queries

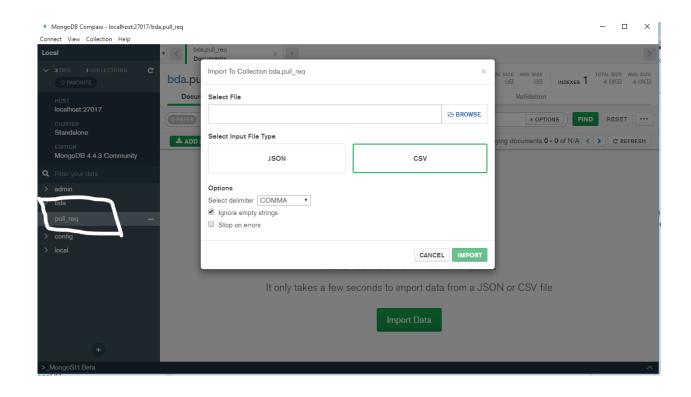
- 1 :load <path of HelloWorld.scala>
- 2 HelloWorld.main(Array())

Executor 1:9 Second



Answer 2:

After installing mongoDb we import the csv data in database name using mongoCompass :



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Specify Fields and Types

	✓ String ▼	✓ datanoise String ▼	opened String ▼	2010-09-02 3:34:17 String ▼
1	5	marsuboss	opened	2010-09-02 7:14:12
2	6	m3talsmith	opened	2010-09-06 16:07:08
3	7	sferik	opened	2010-09-08 19:09:56
4	8	sferik	opened	2010-09-09 4:33:23
5	8	dtrasbo	discussed	2010-09-09 4:44:25
6	8	brianmario	discussed	2010-09-09 4:53:01
7	8	sferik	discussed	2010-09-09 14:22:03
8	9	rsim	opened	2010-09-09 19:18:48
9	10	simonjefford	opened	2010-09-09 19:36:42
10	11	bcardarella	opened	2010-09-09 20:48:38

Import completed 273,088 (100%)

DONE

```
> show dbs;
admin    0.000GB
bda_1    0.008GB
config    0.000GB
local    0.000GB
> use bda_1
switched to db bda_1
> show collections
a2
> db.a2.find().pretty()
{
        "_id" : ObjectId("6049cd08cfdf4d129cf4d750"),
        "name_a" : "datanoise",
        "type_c" : "opened",
        "date_o" : ISODate("2010-09-01T22:04:17Z")
}
{
        "_id" : ObjectId("6049cd08cfdf4d129cf4d751"),
        "num_req" : 5,
```

```
scala> import com.mongodb.spark._
import com.mongodb.spark._
scala> import org.apache.spark.sql.SparkSession
import org.apache.spark.sql.SparkSession
scala> val spark = SparkSession.builder()
spark: org.apache.spark.sql.SparkSession.Builder = org.apache.spark.sql.SparkSession$Builder@59f4df4e

scala> spark.master("local")
res0: org.apache.spark.sql.SparkSession.Builder = org.apache.spark.sql.SparkSession$Builder@59f4df4e

scala> spark.appName("MongoSparkConnectorIntro")
res1: org.apache.spark.sql.SparkSession.Builder = org.apache.spark.sql.SparkSession$Builder@59f4df4e

scala> spark.config("spark.mongodb.input.uri", "mongodb://127.0.0.1/bda_1.a2")
res2: org.apache.spark.sql.SparkSession.Builder = org.apache.spark.sql.SparkSession$Builder@59f4df4e

scala> spark.config("spark.mongodb.output.uri", "mongodb://127.0.0.1/bda_1.a2")
res3: org.apache.spark.sql.SparkSession$Builder: Using an existing SparkSession; some spark core configurations may not take
effect.
res4: org.apache.spark.sql.SparkSession = org.apache.spark.sql.SparkSession@48012514

scala> val rdd = MongoSpark.load(sc)
```

Answer 3:

Loading the CSV to the hadoop file system

```
C:\Users\reshanriq> hdfs dfs -put "C:\Users\reshanriq\Downloads\Neww\a.csv" "C:\hadoop\data\datanode"
The filename, directory name, or volume label syntax is incorrect.
C:\Users\reshanriq>cd "C:\hadoop\data\datanode"
C:\hadoop\data\datanode>ls
a.csv
C:\hadoop\data\datanode>
```

hdfs dfs -put "C:\Users\reshanriq\Downloads\Neww\a.csv" "C:\hadoop\data\datanode"