

2) *******Create and Import sqlContext.*********

spark-shell --packages com.databricks:spark-csv 2.10:1.5.0

import org.apache.spark.sql.SQLContext

val sqlContext = new org.apache.spark.sql.SQLContext(sc)

val data = sqlContext.read.format("com.databricks.spark.csv").option("header",
"true").option("delimiter",",").load("/home/acadgild/Desktop/Hadoop_SME_Coding_Data_Set.do
cx.csv")

data.registerTempTable("olympics")

Question 1) Find the total number of bronze medals won by each country in Football.

val result1= sqlContext.sql("select Country,count(Medal) as Medal from olympics where Sport=='Football' and Medal=='Bronze' group by Country").show()

```
| Scala | val result1 | sqlContext.sql("select Country,count(Medal) as Medal,medal from olympics where Sport | Football and Medal | group by Country,medal").show(50) | football | football
```

Question 2) Find the number of Medals won by USA grouped by sport

val result2= sqlContext.sql("select Count(Medal) as Medal,country,sport from olympics where Country=='USA' group by Sport,country").show()

Question 3) Find the total number of medals won by each country displayed by type of medal.

val result3= sqlContext.sql("select Country,Medal,Count(Medal) as Count from olympics group by Medal,country").show()

```
scala> val result3= sqlContext.sql("select Country,Medal,Count(Medal) as Count from olympics group by Medal,country").show(50)
|Country| Medal|Count|
      FIN|Bronze| 212|
     RSA|Silver|
CRO|Bronze|
                       39
34
                      18
1
351
           Gold|
Gold|
      ISR|
      HUN Bronze
                     10 |
7 |
11 |
2235 |
      ZZX|Bronze|
THA| Gold|
      LAT Silver
            Gold|
Gold|
             Gold|
Gold|
                       31
69
      JAM
                      3|
316|
231|
             Gold
     HUN|Silver|
      POL Bronze
                     118 |
1 |
6 |
1 |
233 |
      YUG Bronze |
SUR | Gold |
      LTU
             Gold
             Gold
            Gold
      UKR Bronze
                      90
129
      CUB Silver
                       37|
1|
5|
1|
      RSA Bronze
      HAI|Silver
      UZB
      SYR Bronze
                      303
      JPN Bronze
      IOP|Silver
      HKG Bronze
```

Question 4) Find how many Silver medals have been given to Mexico and the year of each

val result4= sqlContext.sql("select Country,Medal,Count(Medal) as Count,year from olympics where Medal='Silver' and Country='MEX' group by Medal,country,year").show(false)