## Session 19 Assignment 1

Problem 1 – What are the total number of gold medals every year

Import the required package.

```
scala> import org.apache.spark.sql.SQLContext;
import org.apache.spark.sql.SQLContext

scala> val sqlContext=new SQLContext(sc);
warning: there was one deprecation warning; re-run with -deprecation for details
sqlContext: org.apache.spark.sql.SQLContext = org.apache.spark.sql.SQLContext@10939bcl
scala> [
```

Read the input data file and convert it into a temp table.

## val

df=sqlContext.read.format("csv").option("header","true").load("/home/bigdata/deepak/docs/Acadgild/Session19Assignment1/Sports\_data.txt").registerTempTable("sportsdata")

```
scala> val df=sqlContext.read.format("csv").option("header","true").load("/home/bigdata/deepak/docs/Acadgild/Session19Assignmentl/Sports_data.txt").registerTem
pTable("sportsdata")
warning: there was one deprecation warning; re-run with -deprecation for details
df: Unit = ()
scala>
```

Now, execute the following SQL query to get the results.

val result=sqlContext.sql("select year,medal\_type,count(\*) from sportsdata where medal\_type='gold' group by year,medal\_type")

```
scala> val result=sqlContext.sql("select year,medal_type,count(*) from sportsdata where medal_type='gold' group by year,medal_type")
result: org.apache.spark.sql.DataFrame = [year: string, medal_type: string ... l more field]
scala>
```

## Display the output

Problem 2 – What are the total number of silver medals have been won by USA in each sport? Import the required package.

```
scala> import org.apache.spark.sql.SQLContext;
import org.apache.spark.sql.SQLContext

scala> val sqlContext=new SQLContext(sc);
warning: there was one deprecation warning; re-run with -deprecation for details
sqlContext: org.apache.spark.sql.SQLContext = org.apache.spark.sql.SQLContext@10939bcl
scala> []
```

Read the input data file and convert it into a temp table.

val

df=sqlContext.read.format("csv").option("header","true").load("/home/bigdata/deepak/docs/Acadgild/Session19Assignment1/Sports\_data.txt").registerTempTable("sportsdata")

```
scala> val df=sqlContext.read.format("csv").option("header","true").load("/home/bigdata/deepak/docs/Acadgild/Session19Assignment1/Sports_data.txt").registerTem
pTable("sportsdata")
warning: there was one deprecation warning; re-run with -deprecation for details
df: Unit = ()
scala>
```

Execute the following query to get the results.

val result=sqlContext.sql("select sports,count(medal\_type) from sportsdata where medal\_type='silver' and country='USA' group by sports")

Display the results.