

## Session 18 Assignment 2

```
[bigdata@localhost bin]$ ./spark-shell -i /home/bigdata/deepak/docs/Acadgild/Session18Assignment2/Session18Assignment2.scala
2018-05-25 00:35:59 WARN Utils:66 - Your hostname, localhost.localdomain resolves to a loopback address: 127.0.0.1; using 192.168.0.5 instead (on interface enp0s3)
2018-05-25 00:35:59 WARN Utils:66 - Set SPARK_LOCAL_IP if you need to bind to another address
2018-05-25 00:36:00 WARN NativeCodeLoader:62 - Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
Setting default log level to "WARN".
To adjust logging level use sc.setLogLevel(newLevel). For SparkR, use setLogLevel(newLevel).
Spark context Web UI available at http://192.168.0.5:4040
Spark context available as 'sc' (master = local[*], app id = local-1527188784670).
Spark session available as 'spark'.
```

```
#####
      Problem 1 - Route Generating the most revenue per year
#####
groupBySrcDestYear: org.apache.spark.sql.DataFrame = [src: string, dest: string ... 2 more fields]
groupByYear: org.apache.spark.sql.DataFrame = [year: string, max(totalrevenue): double]
+---+---+---+-----+
|year|src|dest|totalrevenue|
+---+---+---+-----+
|1990|CHN| IND|         400.0|
|1991|IND| AUS|         400.0|
|1991|IND| RUS|         400.0|
|1992|CHN| RUS|         400.0|
|1992|RUS| IND|         400.0|
|1993|AUS| CHN|         400.0|
|1993|CHN| IND|         400.0|
|1994|CHN| PAK|         200.0|
+---+---+---+-----+
```

```
#####
      Problem 2 - Total amount spent by every user in air travel per year
#####
groupByTravellerYear: org.apache.spark.sql.DataFrame = [traveller: string, year: string ... 1 more field]
+-----+---+---+
|traveller|year|amount|
+-----+---+---+
|          |1|1990| 200.0|
|          |1|1993| 600.0|
|          |10|1990| 200.0|
|          |10|1992| 200.0|
|          |10|1993| 200.0|
|          |2|1991| 400.0|
|          |2|1993| 200.0|
|          |3|1991| 200.0|
|          |3|1992| 200.0|
|          |3|1993| 200.0|
|          |4|1990| 400.0|
|          |4|1991| 200.0|
|          |5|1991| 200.0|
|          |5|1992| 400.0|
|          |5|1994| 200.0|
|          |6|1991| 400.0|
|          |6|1993| 200.0|
|          |7|1990| 600.0|
|          |8|1990| 200.0|
|          |8|1991| 200.0|
|          |8|1992| 200.0|
|          |9|1991| 200.0|
|          |9|1992| 400.0|
+-----+---+---+
```

```
version 2.3.0
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