

Session 19 Assignment 3

Create a dataframe from 1 to 100 and write it to parquet file.

First, create a dataframe from 1 to 100

```
val dataDF = spark.sparkContext.makeRDD(1 to 100).toDF("value")
```

```
scala> val dataDF = spark.sparkContext.makeRDD(1 to 100).toDF("value")
2018-05-31 03:02:56 WARN ObjectStore:568 - Failed to get database global_temp, returning NoSuchObjectException
dataDF: org.apache.spark.sql.DataFrame = [value: int]

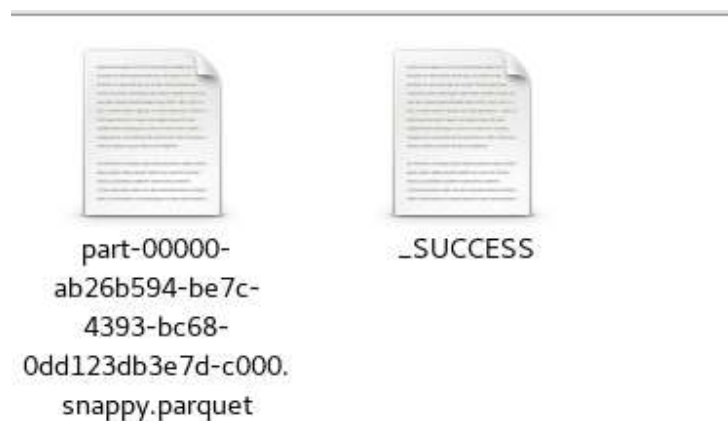
scala> █
```

Now, write it to parquet file

```
dataDF.write.parquet("/home/bigdata/deepak/docs/Acadgild/Session19Assignment3/data")
```

```
scala> dataDF.write.parquet("/home/bigdata/deepak/docs/Acadgild/Session19Assignment3/data")
scala> █
```

Once written, we are getting the following files



Now, validate the parquet file by reading the contents back to dataframe

```
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@ab8blef

scala> val readDF=sqlContext.parquetFile("/home/bigdata/deepak/docs/Acadgild/Session19Assignment3/data")
warning: there was one deprecation warning; re-run with -deprecation for details
readDF: org.apache.spark.sql.DataFrame = [value: int]

scala> readDF.show
+-----+
|value|
+-----+
|  1|
|  2|
|  3|
|  4|
|  5|
|  6|
|  7|
|  8|
|  9|
| 10|
| 11|
| 12|
| 13|
| 14|
| 15|
| 16|
| 17|
| 18|
| 19|
| 20|
+-----+
only showing top 20 rows
```