\otimes databricks Spark SQL G1 and G2 Notebook 2023-08-28 12:31:23

```
(https://databricks.com)
   val sqlConstext = new org.apache.spark.sql.SQLContext(sc)
 command-4344394284453045:1: warning: constructor SQLContext in class SQLContext is deprecated (since 2.0.0): Use SparkSession.builde
 r instead
 val sqlConstext = new org.apache.spark.sql.SQLContext(sc)
 sqlConstext: org.apache.spark.sql.SQLContext = org.apache.spark.sql.SQLContext@508225e8
   val a = sc.parallelize(1 to 10)
 a: org.apache.spark.rdd.RDD[Int] = ParallelCollectionRDD[17] at parallelize at command-4344394284453046:1
   val b = a.map(x=>(x , x+1))
 b: org.apache.spark.rdd.RDD[(Int, Int)] = MapPartitionsRDD[18] at map at command-4344394284453047:1
   b.collect
 res0: Array[(Int, Int)] = Array((1,2), (2,3), (3,4), (4,5), (5,6), (6,7), (7,8), (8,9), (9,10), (10,11))
   val df = b.toDF("First", "Second")
 df: org.apache.spark.sql.DataFrame = [First: int, Second: int]
   df.show
 +----+
 |First|Second|
             2
      1
      2|
      3 l
            41
      5|
             6|
            7|
      61
      7|
            8|
            91
      8
      9|
          10|
 | 10|
          11
   val a = List(("Tom", 5),("Jerry", 2),("Donald", 7))
 a: List[(String, Int)] = List((Tom,5), (Jerry,2), (Donald,7))
   val df = a.toDF("Name", "Age")
 df: org.apache.spark.sql.DataFrame = [Name: string, Age: int]
   df.show
 | Name|Age|
```

```
| Tom| 5|
| Jerry| 2|
|Donald| 7|
  val a = Seq(("Tom", 5),("Jerry", 2),("Donald", 7))
a: Seq[(String, Int)] = List((Tom,5), (Jerry,2), (Donald,7))
  val df = a.toDF("Name", "Age")
df: org.apache.spark.sql.DataFrame = [Name: string, Age: int]
  df.show
| Name|Age|
| Tom| 5|
| Jerry| 2|
|Donald| 7|
  df.registerTempTable("Cartoon")
command-4344394284453057:1: warning: method registerTempTable in class Dataset is deprecated (since 2.0.0): Use createOrReplaceTempV
iew(viewName) instead.
df.registerTempTable("Cartoon")
  df.createOrReplaceTempView("Cartoon")
  sqlContext.sql("select * from Cartoon where Name = 'Tom'").show
+----+
|Name|Age|
| Tom| 5|
+----+
  sqlContext.sql("select * from Cartoon").show
| Name|Age|
| Tom| 5|
| Jerry| 2|
|Donald| 7|
+----+
```

```
sqlContext.sql("select count(*) from Cartoon").show
+----+
|count(1)|
| 3|
  // questions : to create a json file, upoad it open dbfs and perform the following operations on it.
  // printSchema()
  // select the query with all the names
  // filter and identify age > 23
  // groupBy Age Count it and show it
  // how ro read file
  // var df1 = spark.read.format("json").load("dbfs:/FileStore/shared_uploads/....../......json")
  var df1 = spark.read.format("json").load("/FileStore/tables/file.json")
df1: org.apache.spark.sql.DataFrame = [_corrupt_record: string]
  display(df1)
  AnalysisException: Since Spark 2.3, the queries from raw JSON/CSV files are disallowed when the
referenced columns only include the internal corrupt record column
(named _corrupt_record by default). For example:
spark.read.schema(schema).csv(file).filter($"_corrupt_record".isNotNull).count()
and spark.read.schema(schema).csv(file).select("_corrupt_record").show().
Instead, you can cache or save the parsed results and then send the same query.
For example, val df = spark.read.schema(schema).csv(file).cache() and then
df.filter($"_corrupt_record".isNotNull).count().
  val df1 = spark.read.format("json").load("dbfs:/FileStore/shared_uploads/devjethva234@gmail.com/emp_1.json")
df1: org.apache.spark.sql.DataFrame = [age: string, id: string ... 1 more field]
  df1.show
+---+---+
|age| id|
| 25|1201|
               om l
| 25|1202|
              some
25 | 1203 |
            thing
| 25|1204|different|
| 25|1205| going|
25 | 1206 |
              on l
| 25|1207|
+---+
  AnalysisException: [TABLE_OR_VIEW_NOT_FOUND] The table or view `df1` cannot be found. Verify the spelling and correctness of the s
chema and catalog.
```

file:///H:/DataScience-Lab/Big Data CSV/BDA Submission Folder/BDA Praticals/Spark SQL G1 and G2 Notebook 2023-08-28 12 31 23.html

If you did not qualify the name with a schema, verify the current_schema() output, or qualify the name with the correct schema and ca

talog.
To tolerate the error on drop use DROP VIEW IF EXISTS or DROP TABLE IF EXISTS.; line 1 pos 17;
'Project ['name]
+- 'UnresolvedRelation [df1], [], false