"Azure - Databricks - Cheat Sheet"



12 3 2022

Reading Data

```
fileName = "dbfs:/mnt/training/wikipedia/clickstream/2015_02_clickstream.tsv"
csvSchema = StructType([
  StructField("prev_id", IntegerType(), False),
  StructField("curr_id", IntegerType(), False),
  StructField("n", IntegerType(), False),
  StructField("prev_title", StringType(), False),
  StructField("curr_title", StringType(), False),
  StructField("type", StringType(), False)
testDF = (spark.read
                              #The DataFrameReader
  .option('header', 'true')
                              #Ignore line #1 - it's a header
  .option('sep', "\t")
                              #Use tab delimiter (default is comma-separator)
  .schema(csvSchema)
                              #Use the specified schema
  .csv(fileName)
                              #Creates a DataFrame from CSV after reading in the file
#Display data
testDF.printSchema()
```

DataFrames vs SQL & Temporary Views

```
dataDF.createOrReplaceTempView("name_of_db")

#Use simple sql
%sql
SELECT * FROM pagecounts
```

Convert from SQL back to a DataFrame

```
tableDF = spark.sql("SELECT DISTINCT project FROM pagecounts ORDER BY project")
display(tableDF)
```

Exercise

```
.distinct()  # Produce a unique set of values
)
totalArticles = df.count() # Identify the total number of records remaining.
print("Distinct Articles: {0:,}".format(totalArticles))
```