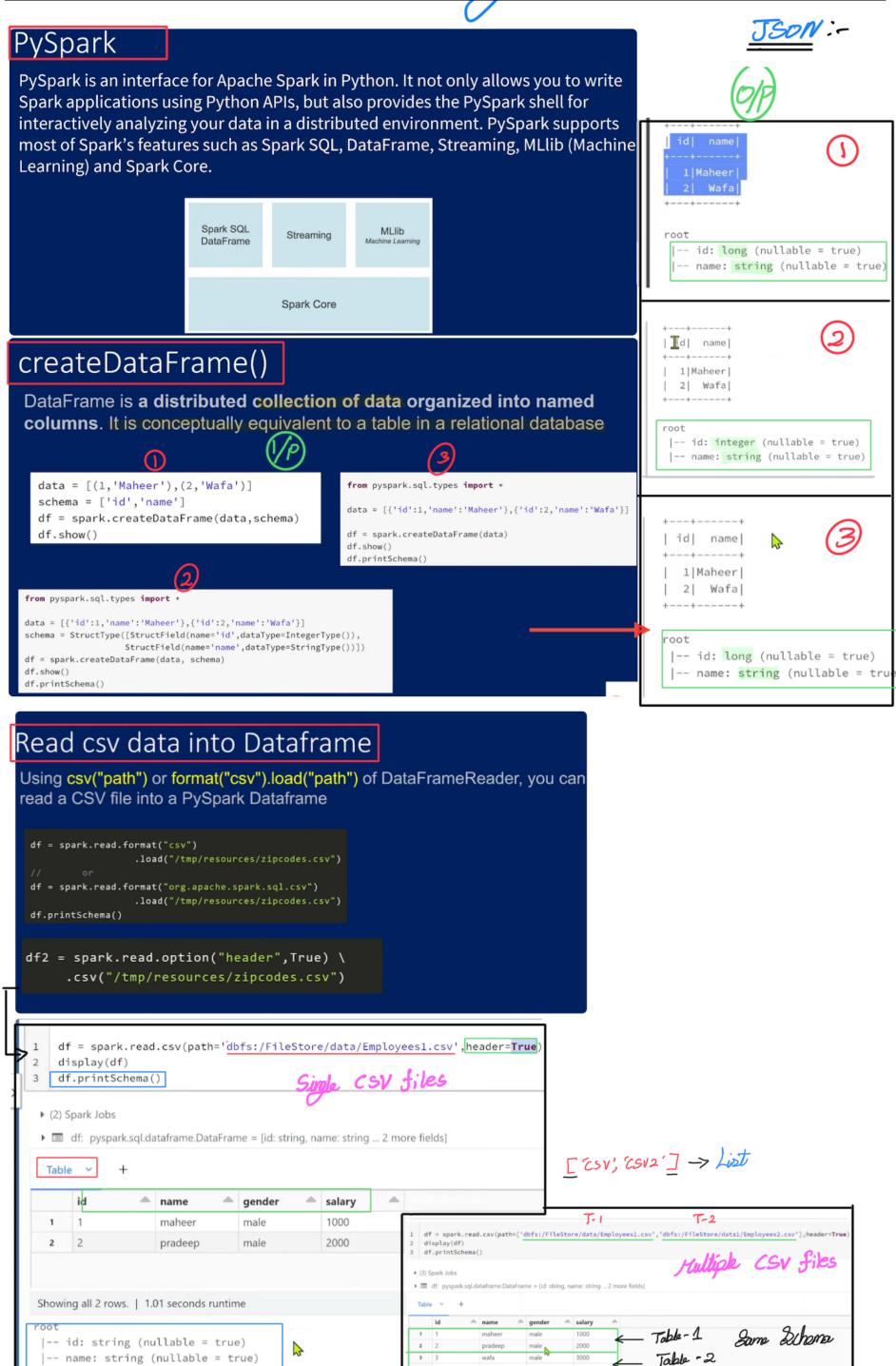
Create, Read, Write - CSV / Saving Modes / Read & Read Multi



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-- gender: string (nullable = true)

Write Dataframe into CSV

Use the write() method of the PySpark DataFrameWriter object to write PySpark DataFrame to a CSV file.

df.write.option("header",True).csv("/tmp/spark_output/zipcodes")

While writing a CSV file you can use several options. for example, header to output the DataFrame column names as header record and delimiter to specify the delimiter on the CSV output file.

df2.write.options(header='True', delimiter=',').csv("/tmp/spark_output/zipcodes")

Saving Modes

PySpark DataFrameWriter also has a method mode() to specify saving mode. overwrite – mode is used to overwrite the existing file.

append – To add the data to the existing file.

ignore – Ignores write operation when the file already exists.

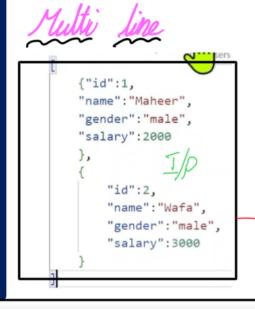
error – This is a default option when the file already exists, it returns an error.

```
df2.write.mode('overwrite').csv("/data/emps")
#you can try below too
df2.write.format("csv").mode('overwrite').save("/data/emps")
```


Read JSON data into Dataframe

Using read.json("path") or read.format("json").load("path") you can read a JSON file into a PySpark DataFrame

use multiline option to read JSON files scattered across multiple lines. By default multiline option, is set to false.



Read multiple JSON files

you can also read multiple json files, just pass all file names by separating comma as a path

```
# Read multiple files
df2 = spark.read.json(
    ['resources/zipcode1.json','resources/zipcode2.json'])
df2.show()
```

Read All JSON files

We can read all JSON files from a directory into DataFrame just by passing wildcard syntax path to the json()

```
# Read all JSON files from a folder
df3 = spark.read.json("resources/*.json")
df3.show()
```