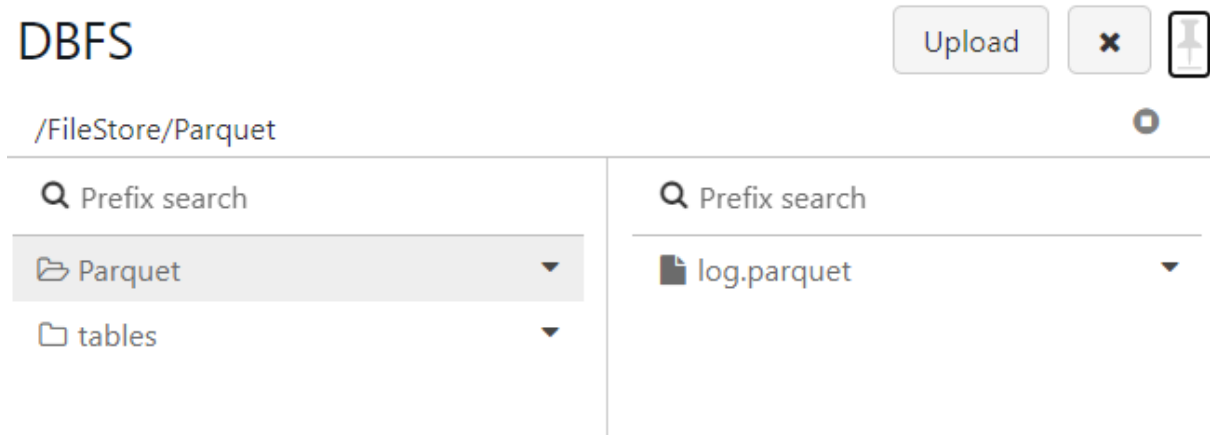


## 😊 Uploading CSV file

1. In this lab we are going to upload our CSV file onto our data bricks workspace.
2. For that you need to go to Catalog and click and browse DBFS. Inside DBFS you have to click on upload.



3. Then you should name your directory and upload your CSV file in it.

## Upload Data to DBFS

DBFS Target Directory ?

/FileStore


csv

Select

Files uploaded to DBFS are accessible by everyone who has access to this workspace. [Learn more](#)

Files ?

Log.csv



7 MB

[Remove file](#)

✓ File uploaded to /FileStore/csv/Log.csv

Done

4. Then you need to delete your previous cells and in a new cell paste this code and run it. By this, we have read the data in our CSV file.

```

import org.apache.spark.sql.types._
import org.apache.spark.sql.functions._

val file_location = "/FileStore/csv/Log.csv"
val file_type = "csv"

val dataSchema = StructType(Array(
  StructField("Correlationid", StringType, true),
  StructField("Operationname", StringType, true),
  StructField("Status", StringType, true),
  StructField("Eventcategory", StringType, true),
  StructField("Level", StringType, true),
  StructField("Time", TimestampType, true),
  StructField("Subscription", StringType, true),
  StructField("Eventinitiatedby", StringType, true),
  StructField("Resource", StringType, true),
  StructField("Resourcegroup", StringType, true),
  StructField("Resource", StringType, true)))

val df = spark.read.format(file_type).
options(Map("header" -> "true")).
schema(dataSchema).
load(file_location)

```

df: org.apache.spark.sql.DataFrame = [Correlationid: string, Operationname: string ... 9 more fields]

```

import org.apache.spark.sql.types._
import org.apache.spark.sql.functions._
file_location: String = /FileStore/csv/Log.csv
file_type: String = csv
dataSchema: org.apache.spark.sql.types.StructType = StructType(StructField(Correlationid,StringType,true),StructField(Operationname,StringType,true),StructField(Status,StringType,true),StructField(Eventcategory,StringType,true),StructField(Level,StringType,true),StructField(Time,TimestampType,true),StructField(Subscription,StringType,true),StructField(Eventinitiatedby,StringType,true),StructField(Resource,StringType,true),StructField(Resourcegroup,StringType,true),StructField(Resource,StringType,true))

```

5. Now we use this code below in a new cell to see the dates from our data.

```

import org.apache.spark.sql.functions._
display(df.select(year(col("time")),month(col("time")),dayofyear(col("time"))))

```

(1) Spark Jobs

	year(time)	month(time)	dayofyear(time)
1	2023	4	115
2	2023	4	115
3	2023	4	115
4	2023	4	115
5	2023	4	115
6	2023	4	115
7	2023	4	115
8	2023	4	115
9	2023	4	115
10	2023	4	115
11	2023	4	115
12	2023	4	115
13	2023	4	115
14	2023	4	115
15	2023	4	115

10,000+ rows | Truncated data | 3.20 seconds runtime

Refreshed now

6. Now this code below shows our data in more meaningful way.





✓ Just now (1s)

4

```
display(df.select(to_date(col("time"),"dd-mm-yyyy").alias("Date")))
```

▶ (1) Spark Jobs

Table ▼ +

	Date
1	2023-04-25
2	2023-04-25
3	2023-04-25
4	2023-04-25
5	2023-04-25
6	2023-04-25
7	2023-04-25
8	2023-04-25
9	2023-04-25
10	2023-04-25
11	2023-04-25
12	2023-04-25
13	2023-04-25
14	2023-04-25
15	2023-04-25



10,000+ rows | Truncated data | 0.92 seconds runtime