## 

```
(https://databricks.com)
     from pyspark.sql.types import StructField, StructType, StringType, IntegerType
                                                                  2
     my_schema = StructType(
         [
             StructField("DEST_COUNTRY_NAME", StringType(), True),
             StructField("DESTORIGIN_COUNTRY_NAME_COUNTRY_NAME", StringType(), True),
             StructField("count", IntegerType(), True)
         ]
     )
                                                                  3
     file_location = "/FileStore/tables/2015_summary.csv"
     df = spark.read.format("csv") \
       .option("inferSchema", "false") \
       .option("header", "false") \
       .option("skiprows", "1") \
       .schema(my_schema)\
       .option("mode", "PERMISSIVE")\
       .load(file_location)
     df.show(2)
  ▶ 🔳 df: pyspark.sql.dataframe.DataFrame = [DEST_COUNTRY_NAME: string, DESTORIGIN_COUNTRY_NAME_COUNTRY_NAME: string ... 1 more field]
  |DEST_COUNTRY_NAME|DESTORIGIN_COUNTRY_NAME_COUNTRY_NAME|count|
       United States
                                                      Romania|
                                                                 15|
       United States|
                                                      Croatia|
                                                                  1|
 only showing top 2 rows
                                                                  4
     %fs
     ls /FileStore/tables/
                                                                                                                        Q70
   Table
         ₄<sup>B</sup>c path
                                              <sup>B</sup>c name
                                                                  1<sup>2</sup>3 size
                                                                               123 modificationTime
         dbfs:/FileStore/tables/2015_summary-1.csv
                                                                                        1733968845000
                                              2015_summary-1.csv
                                                                         7080
         dbfs:/FileStore/tables/2015_summary.csv
                                               2015_summary.csv
                                                                         7080
                                                                                        1733886028000
  2 rows
```

## corrupted record

%fs ls /FileStore/tables/

Table				
	∆ <sup>B</sup> c path	₄ <sup>B</sup> <sub>C</sub> name	1 <sup>2</sup> 3 size	1 <sup>2</sup> 3 modificationTime
1	dbfs:/FileStore/tables/2015_summary-1.csv	2015_summary-1.csv	7080	1733968845000
2	dbfs:/FileStore/tables/2015_summary.csv	2015_summary.csv	7080	1733886028000
3	dbfs:/FileStore/tables/employees.csv	employees.csv	225	1733971046000

```
7
   file_location = "/FileStore/tables/employees.csv"
  df = spark.read.format("csv") \
     .option("inferSchema", "true") \
     .option("header", "true") \
     .option("mode", "PERMISSIVE")\
     .load(file_location)
   df.show() ## ignore the nominee corrupted record 3-4
▶ ■ df: pyspark.sql.dataframe.DataFrame = [id: integer, name: string ... 4 more fields]
| id|
       name|age|salary| address| nominee|
| 1| Manish| 26| 75000|
                               bihar|nominee1|
| 2| Nikita| 23|100000|uttarpradesh|nominee2|
| 3| Pritam| 22|150000| Bangalore| India|
| 4|Prantosh| 17|200000| Kolkata| India|
| 5| Vikash| 31|300000|
                              null|nominee5|
```

```
1  df = spark.read.format("csv") \
2    .option("inferSchema", "true") \
3    .option("header", "true") \
4    .option("mode", "FAILFAST")\
5    .load(file_location)
6
7  df.show()
```

• org.apache.spark.SparkException: Job aborted due to stage failure: Task 0 in stage 23.0 failed 1 times, most rec ent failure: Lost task 0.0 in stage 23.0 (TID 23) (ip-10-172-190-118.us-west-2.compute.internal executor driver): com.d atabricks.sql.io.FileReadException: Error while reading file dbfs:/FileStore/tables/employees.csv.

```
df = spark.read.format("csv") \
   .option("inferSchema", "true") \
    .option("header", "true") \
    .option("mode", "PERMISSIVE")\
    .schema(emp_schema)\
    .load(file_location)
  df.show(truncate=False)
▶ ■ df: pyspark.sql.dataframe.DataFrame = [id: string, name: string ... 5 more fields]
|id |name
                             |nominee |_corrupt_record
         |age|salary|address
|1 |Manish |26 |75000 |bihar
                               |nominee1|null
|2 |Nikita |23 |100000|uttarpradesh|nominee2|null
|4 |Prantosh|17 |200000|Kolkata
                               |India |4,Prantosh,17,200000,Kolkata,India,nominee4|
|5 |Vikash |31 |300000|null
                               |nominee5|null
```

-	+	+	-+	+	<b></b>	+	+
	1	Manish 26	75000	bihar	nominee1	null	- 1
	2	Nikita 23	100000	uttarpradesh	nominee2	  null	į
	5	Vikash 31	300000	null	nominee5	null	- 1
-	+	++	-+	+	<del></del>	+	+