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Databricks-Spark DataFrame Reader





Reading Single csv Files

```
customer_df=spark.read.csv("/FileStore/tables/Amazon_Customer_Data.csv")
```

Reading Multiple csv Files

```
customer_df=spark.read.csv("/FileStore/tables/Amazon_Customer_Data_*.csv")
customer_df=spark.read.csv("/FileStore/tables/csv")
```

Important Options:

```
header=true/false
schema=<<schema Definition>>
inferSchema=true/false
sep=<<delimeter>>
dateFormat=yyyy-MM-dd
Mode=PERMISSIVE/DROPMALFORMED/FAILFAST
```





Reading Single JSON Files

```
customer_df=spark.read.csv("/FileStore/tables/Amazon_Customer_Data.json")
```

Reading Multiple JSON Files

```
customer_df=spark.read.csv("/FileStore/tables/Amazon_Customer_Data*.json")
customer_df=spark.read.csv("/FileStore/tables/json")
```

Important Options:

```
schema=<<schema Definition>>
multiLine=true/false
dateFormat=yyyy-MM-dd
Mode=PERMISSIVE/DROPMALFORMED/FAILFAST
```





Reading Parquet Files

```
customer_df=spark.read.parquet("/FileStore/tables/Amazon_Customer_Data")
```

Reading RDBMS Tables



Reading Fixed Width Files

```
customer_df = spark.read.text("/FileStore/tables/Amazon_Customer_Data.txt")
customer_df.select(
    customer_df.value.substr(1,10).alias('customer_id'),
    customer_df.value.substr(11,110).alias('Customer_First_Name'),
    customer_df.value.substr(111,201).alias('Customer_Last_Name'),
    customer_df.value.substr(202,207).cast('integer').alias('zipcode'), .....
).show()
```

Reading Excel Files

Need to user python pandas, install xlrd and openpyxl package in your Databricks cluster

```
import pandas
pcustomer_df = pd.read_excel('/FileStore/tables/Amazon_Customer_Data.xlsx', engine='openpyxl', sheet_name = 'Customer_Data')
customer_df = spark.createDataFrame(pcustomer_df)
```

