Code

Vivek Pandiyan

```
import org.apache.Spark.sql.functions.
import org.joda.time.format.DateTimeFormat.
Val inputPath = "C:/Users/vivek/Downloads/Pressure.csv"
Val Pressure = SqlContext.read.
               format("com.databricks.Spark.csv")
               .option("header", "true")
               .option("delimiter", ",")
               .option("inferSchema", "true")
               .load(inputpath)
Val temperature : Sql Context.read
               .format("com.databricks.Spark.csv")
               .option("header", true")
               .option("delimiter", ",")
               .option("inferschema", "true")
               .load(inputpath)
Val inputdew: "C:/Users/Vivek/downloads/dew.csv"
Val dew = Sql.context.read.
               .format("com.databricks.Spark.csv").
               .option("header", "true")
               .option("delimiter", ",")
               .option("inferschema", "true")
               .load(inputdew)
Val inputhum = "C:/Users/Vivek/downloads/humidity.csv"
Val humidity : Sql.Context.read
               .format("com.databricks.Spark.csv
               .option("header", "true")
               .option("delimiter", ",")
               .option("inferschema", "true").
```

Viveu Pandiyan

```
                    .load(inputpath)
val inputWinddd = "c:/Users/Viveu/downloads/windDirection.csv
val winddir     =   Sql.context.read
                    .format("com.databricks.Spark.com")
                    .format("header", "true")
                    .format("delimiter", ",")
                    .Option("inferSchema", "true")
                    .load(inputpath).
                    .load(inputwinddd).

val inputwinds.  = "c:/Users/Viveu/downloads/windSpeed.csv"
val winds       = Sql.context.read
                    .format("com.databricks.Spark.com")
                    .Option("header", "true")
                    .option("delimiter", ",")
                    .option("inferSchema", "true")
                    .load(inputwinds)

val inputVis = "C:/users/Viveu/downloads/Visibility.csv"
val Visibility = Sql.context.read
                    .format("com.databricks.Spark.com")
                    .Option("header", "true")
                    .option("delimiter", ",")
                    .Option("inferSchema", "true")
                    .load(inputVis)
```

Vivek Panchigar

```
import matplotlib
import matplotlib.pyplot as plt
import StringIO
import pandas as pd.
import seaborn as sns
df = sqlContext.sql("Select timestamp, Pressure from Pressure
                     group by timestamp").
%pyspark.
head rmp [0:100].
From pyspark.sql import SQLContext
df = sqlContext.table("Pressure").
df.head().
import os
import pandas as pd
list = []
for row in glob.glob("c:/users/Vivek/downloads/pressure.csv")
    data = pd.read_csv(row)
data.count().
%pyspark.
def show(p):
img = StringIO.StringIO()
P.savefig(img, format='svg')
img.seek(0)
```

Vivek Pandya

```
Print "%html" + img.buf

df = SqlContext.sql("Select Pressure, timestamp,
     Month, count(*) as No of reading, Max(temperature),
     Min(temperature) from Pressure P inner join
     temperature T on P.timestamp = T.timestamp)

Value = "Max temp"

grouping = ["month"]

Val Fireday = List("01/01/2016", "01/16/2016",
                   "01/20/2016", "02/21/2016",
                   "03/07/2016", "03/07/206")

def Forest_Fire : (String Array[Double]) = {

  Val Values = Array( Day.to double, humidity.to double
                      winds.to double, temp.to double
                      days from - Max temp(year.to int
                      month.to int, day.to int ))

import java.io._
import org.joda.time._
import org.joda.time.format._
import org.joda.time.format.DateTimeFormat
import org.joda.time.DateTime
import org.joda.time.Days
```

Vivek Pandey

```
def get_date ( year: Int , month: Int , day: Int ) =
    "%04d %02d %02d" . format (year, month, day)

%sql
Select   time stamp, temperature , Pressure , humidity
         wind speed , wind direction, Visibility from
         Forest fire ~~groupby~~ ~~Ieta~~
         order by  time stamp

%sql
Select   max (temperature), Month( timestamp) from
         temperature  group by  Month(Timestamp)
         Order by  month (timestamp)

%sql.
Select   date (F.timestamp), day ( F.timestamp ),
         Max (F.temperature) , Max(F.pressure),
         From temperature T  join Forest Fire F
         day (F.Timestamp)=day(T.timestamp)

%pyspark
from pandas import Series , Dataframe .
import pandas as pd .
import numpy as np .
dataframe ( pressure ).
```