SparkSETUPTemplate

July 3, 2019

```
[8]: import findspark
     findspark.init()
     findspark.find()
     import pyspark
     findspark.find()
     from pyspark.sql import functions as F
 [3]: from pyspark import SparkContext, SparkConf
     from pyspark.sql import SparkSession
     conf = pyspark.SparkConf().setAppName('Ameet').setMaster('local')
     sc = pyspark.SparkContext(conf=conf)
     spark = SparkSession(sc)
 [4]: nums = sc.parallelize([1,2,3,4])
     nums.map(lambda x: x*x).collect()
[4]: [1, 4, 9, 16]
[31]: ADD="C:\\Users\\ameet.

¬chaubal\\Documents\\projects\\united\\address\\address\\address.csv"

     ADD HIST = "C:\\Users\\ameet.
      → chaubal\\Documents\\projects\\united\\address_hist\\address_hist.
     ADD_COLS = ["customer_id", "transaction_dtmz", "effective_dtmz"]
     ADDHIST_COLS = ["customer_id", "update_id", "active_dtmz", "inactive_dtmz", __

→"effective_dtmz"]
     ADD_FILTER_COL = "transaction_dtmz"
     ADD_FILTER_COL2="effective_dtmz"
     HIST_FILTER_COL = "active_dtmz"
     HIST_FILTER_COL2 = "effective_dtmz"
     ADD_S1 = "2019-06-26 00:00:00"
     ADD_E1 = "2019-06-27 00:00:00"
     ADD_S2 = "2019-05-31 00:00:00"
     ADD_E2 = "2019-06-01 00:00:00"
 [6]: addDF=spark.read.csv(ADD, header='true')
 [7]: addDF.printSchema()
```

```
root
     |-- customer_id: string (nullable = true)
     |-- channel_type_code: string (nullable = true)
     |-- country_code: string (nullable = true)
     |-- channel type sequence number: string (nullable = true)
     |-- channel_code: string (nullable = true)
     |-- address line 1: string (nullable = true)
     |-- address_line_2: string (nullable = true)
     |-- address line 3: string (nullable = true)
     |-- city: string (nullable = true)
     |-- apartment_number: string (nullable = true)
     |-- job_title: string (nullable = true)
     |-- postal_code: string (nullable = true)
     |-- state: string (nullable = true)
     |-- wrong_mail_date: string (nullable = true)
     |-- county: string (nullable = true)
     |-- update_dtmz: string (nullable = true)
     |-- ims_country_code: string (nullable = true)
     |-- company_name: string (nullable = true)
     |-- remark: string (nullable = true)
     |-- updated by id: string (nullable = true)
     |-- effective dtmz: string (nullable = true)
     |-- discontinue_dtmz: string (nullable = true)
     |-- insert_id: string (nullable = true)
     |-- insert_dtmz: string (nullable = true)
     |-- address_verified_indicator: string (nullable = true)
     |-- last_name: string (nullable = true)
     |-- first_name: string (nullable = true)
     |-- validation_type: string (nullable = true)
     |-- validation_date: string (nullable = true)
     |-- validation_error: string (nullable = true)
     |-- validation_matchkey: string (nullable = true)
     |-- transaction_dtmz: string (nullable = true)
     |-- host: string (nullable = true)
     |-- ip address: string (nullable = true)
     |-- host_user: string (nullable = true)
     |-- q owner: string (nullable = true)
     |-- table: string (nullable = true)
     |-- type_cdb: string (nullable = true)
     |-- foundry_insert_timestamp_millisec: string (nullable = true)
     |-- foundry_insert_timestamp_nanosec: string (nullable = true)
[32]: add_fil_df = addDF.filter(F.col(ADD_FILTER_COL).between(ADD_S1, ADD_E1) & F.
      →col(ADD FILTER COL2).between(ADD S2, ADD E2))
[33]: add_fil_df = add_fil_df.select(ADD_COLS)
```

[34]: add_fil_df.sort(F.col("effective_dtmz").asc()).show(truncate=False)

[]: