

Spark Core Demo

December 2, 2024

1 Spark Core Demo

```
[1]: from pyspark.sql import SparkSession
spark = SparkSession \
    .builder \
    .master("local[*]") \
    .appName('My First Spark application') \
    .getOrCreate()

sc = spark.sparkContext
```

Setting default log level to "WARN".

To adjust logging level use `sc.setLogLevel(newLevel)`. For SparkR, use `setLogLevel(newLevel)`.

24/12/02 04:40:11 WARN NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable

24/12/02 04:40:12 WARN Utils: Service 'SparkUI' could not bind on port 4040. Attempting port 4041.

2 RDDs (Week 2)

```
[2]: lines = sc.textFile('../assets/data/misc/blurb.txt')
```

```
[3]: data_lines = lines.filter(lambda x: 'data' in x)
```

```
[4]: data_lines.take(10)
```

```
[4]: ['The University of Michigan School of Information is pleased to offer a new,
fully online, master's program in applied data science. We teach comprehensive
applied data science at the intersection of people and technology. ',
      'We provide critical insight into data collection, computation, and analytics,
and help develop hands-on skills using a multidisciplinary approach embedded in
information, computer science, and statistics. ',
      'Coursework and projects focus on applying data science to real-world problems.
```

```
']
```

```
[5]: data_lines.first()
```

```
[5]: 'The University of Michigan School of Information is pleased to offer a new,  
fully online, master's program in applied data science. We teach comprehensive  
applied data science at the intersection of people and technology. '
```

```
[6]: nums = sc.parallelize([1, 2, 3, 4])  
squared = nums.map(lambda x: x * x).collect()  
for num in squared:  
    print('%i ' % (num))
```

```
1  
4  
9  
16
```

```
[7]: #Sometimes we want to produce multiple output elements for each input element.␣  
    ↪The operation to do this is called flatMap(). As with map(), the function we␣  
    ↪provide to flatMap() is called individually for each element in our input␣  
    ↪RDD. Instead of returning a single element, we return an iterator with our␣  
    ↪return values. Rather than producing an RDD of iterators, we get back an RDD␣  
    ↪that consists of the elements from all of the iterators.  
  
    #lines = sc.parallelize(["hello world", "hi", "hi world", "hello everyone",␣  
    ↪"hello"])  
    words = lines.flatMap(lambda line: line.split(" "))  
    word_counts = words.map(lambda word: (word,1))  
    #print(words.collect())  
    #print(word_counts.collect())
```

```
[8]: wc = word_counts.reduceByKey(lambda accumulator,value: accumulator + value)
```

```
[9]: wc.take(10)
```

```
[9]: [('The', 1),  
      ('University', 1),  
      ('of', 3),  
      ('Information', 1),  
      ('is', 1),  
      ('pleased', 1),  
      ('online,', 1),  
      ('master's', 1),  
      ('in', 2),  
      ('applied', 2)]
```

```
[10]: wc.sortBy(lambda x: x[1], ascending=False).take(10)
```

```
[10]: [('and', 6),  
      ('data', 4),  
      ('of', 3),  
      ('', 3),  
      ('to', 3),  
      ('in', 2),  
      ('applied', 2),  
      ('science', 2),  
      ('a', 2),  
      ('program', 2)]
```

```
[11]: business = spark.read.json('../..//assets/data/yelp_academic/  
      ↪yelp_academic_dataset_business.json.gz')  
checkin = spark.read.json('../..//assets/data/yelp_academic/  
      ↪yelp_academic_dataset_checkin.json.gz')  
review = spark.read.json('../..//assets/data/yelp_academic/  
      ↪yelp_academic_dataset_review.json.gz')  
tip = spark.read.json('../..//assets/data/yelp_academic/  
      ↪yelp_academic_dataset_tip.json.gz')  
user = spark.read.json('../..//assets/data/yelp_academic/  
      ↪yelp_academic_dataset_user.json.gz')
```

24/12/02 04:40:23 WARN package: Truncated the string representation of a plan since it was too large. This behavior can be adjusted by setting 'spark.sql.debug.maxToStringFields'.

```
[12]: review.printSchema()
```

```
root  
|-- business_id: string (nullable = true)  
|-- cool: long (nullable = true)  
|-- date: string (nullable = true)  
|-- funny: long (nullable = true)  
|-- review_id: string (nullable = true)  
|-- stars: double (nullable = true)  
|-- text: string (nullable = true)  
|-- useful: long (nullable = true)  
|-- user_id: string (nullable = true)
```

```
[13]: result = user.filter(user['compliment_cool'] > 5000).collect()
```

```
[14]: checkin.first()
```

```
[14]: Row(business_id='--1UhMGODdWsrMast09DZw', date='2016-04-26 19:49:16, 2016-08-30
18:36:57, 2016-10-15 02:45:18, 2016-11-18 01:54:50, 2017-04-20 18:39:06,
2017-05-03 17:58:02')
```

```
[15]: checkin.dtypes
```

```
[15]: [('business_id', 'string'), ('date', 'string')]
```

```
[16]: checkin.groupby(['weekday', 'hour'])
```

```
[16]: <pyspark.sql.group.GroupedData at 0x77e8f42c4790>
```

```
[17]: from pyspark.sql.functions import udf
```

```
[18]: from pyspark.sql.types import IntegerType
square_udf_int = udf(lambda z: square(z), IntegerType())
```

```
[19]: from pyspark.sql.types import ArrayType,StringType
datesplit = udf(lambda x: x.split(','),ArrayType(StringType()))
```

```
[20]: (checkin.select('business_id',datesplit('date').alias('dates'))).first()
```

```
[20]: Row(business_id='--1UhMGODdWsrMast09DZw', dates=['2016-04-26 19:49:16', '
2016-08-30 18:36:57', ' 2016-10-15 02:45:18', ' 2016-11-18 01:54:50', '
2017-04-20 18:39:06', ' 2017-05-03 17:58:02'])
```

```
[21]: from pyspark.sql.functions import explode
```

```
[22]: checkin.select('business_id',datesplit('date').alias('dates')).
    ↳withColumn('checkin_date',explode('dates')).take(10)
```

```
[22]: [Row(business_id='--1UhMGODdWsrMast09DZw', dates=['2016-04-26 19:49:16', '
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```

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```
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'funny': 16398,
'name': 'Ann',
'review_count': 630,
'useful': 21671,
'user_id': 'HbyHhB6WOSQjU-JYwED9Ww',
'yelping_since': '2009-12-13 18:31:49'}
```

```
[24]: review.printSchema()
```

```
root
|-- business_id: string (nullable = true)
|-- cool: long (nullable = true)
|-- date: string (nullable = true)
|-- funny: long (nullable = true)
|-- review_id: string (nullable = true)
|-- stars: double (nullable = true)
|-- text: string (nullable = true)
|-- useful: long (nullable = true)
|-- user_id: string (nullable = true)
```

```
[25]: tip.printSchema()
```

```
root
|-- business_id: string (nullable = true)
|-- compliment_count: long (nullable = true)
|-- date: string (nullable = true)
|-- text: string (nullable = true)
|-- user_id: string (nullable = true)
```

```
[26]: checkin.printSchema()
```

```
root
|-- business_id: string (nullable = true)
|-- date: string (nullable = true)
```

```
[27]: business.columns
```

```
[27]: ['address',  
      'attributes',  
      'business_id',  
      'categories',  
      'city',  
      'hours',  
      'is_open',  
      'latitude',  
      'longitude',  
      'name',  
      'postal_code',  
      'review_count',  
      'stars',  
      'state']
```

```
[28]: business.dtypes
```

```
[28]: [('address', 'string'),  
      ('attributes',  
       'struct<AcceptsInsurance:string,AgesAllowed:string,Alcohol:string,Ambience:string,BYOB:string,BYOBCorkage:string,BestNights:string,BikeParking:string,BusinessAcceptsBitcoin:string,BusinessAcceptsCreditCards:string,BusinessParking:string,ByAppointmentOnly:string,Caters:string,CoatCheck:string,Corkage:string,DietaryRestrictions:string,DogsAllowed:string,DriveThru:string,GoodForDancing:string,GoodForKids:string,GoodForMeal:string,HairSpecializesIn:string,HappyHour:string,HasTV:string,Music:string,NoiseLevel:string,Open24Hours:string,OutdoorSeating:string,RestaurantsAttire:string,RestaurantsCounterService:string,RestaurantsDelivery:string,RestaurantsGoodForGroups:string,RestaurantsPriceRange2:string,RestaurantsReservations:string,RestaurantsTableService:string,RestaurantsTakeOut:string,Smoking:string,WheelchairAccessible:string,WiFi:string>'),  
      ('business_id', 'string'),  
      ('categories', 'string'),  
      ('city', 'string'),  
      ('hours',  
       'struct<Friday:string,Monday:string,Saturday:string,Sunday:string,Thursday:string,Tuesday:string,Wednesday:string>'),  
      ('is_open', 'bigint'),  
      ('latitude', 'double'),  
      ('longitude', 'double'),  
      ('name', 'string'),  
      ('postal_code', 'string'),  
      ('review_count', 'bigint'),  
      ('stars', 'double'),  
      ('state', 'string')]
```

```
[29]: business.describe().show()
```

```
[Stage 22:>                                                                    (0 + 1) / 1]

+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+
|summary|          address|      business_id|      categories|
city|          is_open|      latitude|      longitude|
name|      postal_code|      review_count|      stars| state|
+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+
|  count|          192609|          192609|          192127|
192609|          192609|          192609|          192609|
192609|          192609|          192609|          192609|192609|
|  mean|          null|          null|          null|
null| 0.8230404602069478|38.54180263002481|-97.59478531563506|
1698.0|  68559.721920789| 33.53896235378409| 3.585626839867296|  null|
| stddev|          null|          null|          null|
null|0.38163545071406046|4.941963502645914| 16.69772481655523|
2500.1279633917406|26486.666224785797|110.13522443830212|1.0184582836938019|
null|
|  min|          |--1UhMGODdWsrMast...|3D Printing, Grap...|
|          0|  33.204642003|  -115.4934712422| L & A Insurance ...|
|          3|          1.0|  AB|
|  max|380 Midpark Way SE|zzzaIBwimxVej4tY6...|Zoos, Local
Flavo...|Chandler|          1|  51.2999426916|          -72.9119819|
Lounge Eighteen|          t2g 3m5|          8348|          5.0|
XWY|
+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+
```

```
[30]: business.printSchema()
```

```
root
|-- address: string (nullable = true)
|-- attributes: struct (nullable = true)
|   |-- AcceptsInsurance: string (nullable = true)
|   |-- AgesAllowed: string (nullable = true)
|   |-- Alcohol: string (nullable = true)
|   |-- Ambience: string (nullable = true)
|   |-- BYOB: string (nullable = true)
|   |-- BYOBCorkage: string (nullable = true)
|   |-- BestNights: string (nullable = true)
```



```

|   |-- BikeParking: string (nullable = true)
|   |-- BusinessAcceptsBitcoin: string (nullable = true)
|   |-- BusinessAcceptsCreditCards: string (nullable = true)
|   |-- BusinessParking: string (nullable = true)
|   |-- ByAppointmentOnly: string (nullable = true)
|   |-- Caters: string (nullable = true)
|   |-- CoatCheck: string (nullable = true)
|   |-- Corkage: string (nullable = true)
|   |-- DietaryRestrictions: string (nullable = true)
|   |-- DogsAllowed: string (nullable = true)
|   |-- DriveThru: string (nullable = true)
|   |-- GoodForDancing: string (nullable = true)
|   |-- GoodForKids: string (nullable = true)
|   |-- GoodForMeal: string (nullable = true)
|   |-- HairSpecializesIn: string (nullable = true)
|   |-- HappyHour: string (nullable = true)
|   |-- HasTV: string (nullable = true)
|   |-- Music: string (nullable = true)
|   |-- NoiseLevel: string (nullable = true)
|   |-- Open24Hours: string (nullable = true)
|   |-- OutdoorSeating: string (nullable = true)
|   |-- RestaurantsAttire: string (nullable = true)
|   |-- RestaurantsCounterService: string (nullable = true)
|   |-- RestaurantsDelivery: string (nullable = true)
|   |-- RestaurantsGoodForGroups: string (nullable = true)
|   |-- RestaurantsPriceRange2: string (nullable = true)
|   |-- RestaurantsReservations: string (nullable = true)
|   |-- RestaurantsTableService: string (nullable = true)
|   |-- RestaurantsTakeOut: string (nullable = true)
|   |-- Smoking: string (nullable = true)
|   |-- WheelchairAccessible: string (nullable = true)
|   |-- WiFi: string (nullable = true)
|-- business_id: string (nullable = true)
|-- categories: string (nullable = true)
|-- city: string (nullable = true)
|-- hours: struct (nullable = true)
|   |-- Friday: string (nullable = true)
|   |-- Monday: string (nullable = true)
|   |-- Saturday: string (nullable = true)
|   |-- Sunday: string (nullable = true)
|   |-- Thursday: string (nullable = true)
|   |-- Tuesday: string (nullable = true)
|   |-- Wednesday: string (nullable = true)
|-- is_open: long (nullable = true)
|-- latitude: double (nullable = true)
|-- longitude: double (nullable = true)
|-- name: string (nullable = true)
|-- postal_code: string (nullable = true)

```

```
|-- review_count: long (nullable = true)
|-- stars: double (nullable = true)
|-- state: string (nullable = true)
```