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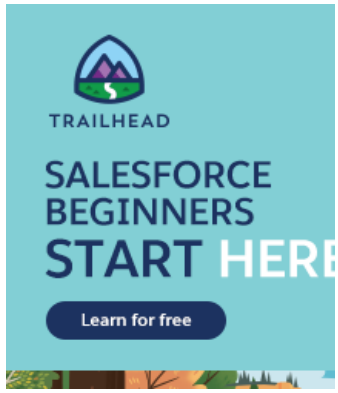
PySpark – Difference between two dates (days, months, years)

NNK (https://sparkbyexamples.com/author/admin/) -

PySpark (https://sparkbyexamples.com/category/pyspark/)

Using PySpark SQL functions `datediff()`, `months_between()` you can calculate the difference between two dates in days, months, and year, let's see this by using a DataFrame example. You can also use these to calculate age.



datediff() Function

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PySpark – orderBy() and sort() (https://sparkbyexamples.com/py

First Let's see getting the difference between two dates using `datediff()` PySpark function.

```
from pyspark.sql.functions import *
data = [("1","2019-07-01"),("2","20
df=spark.createDataFrame(data=data,

df.select(
      col("date"),
      current_date().alias("current
      datediff(current_date(),col("
    ).show()
```

Output:

```
+----------+------------+--------+
|      date|current_date|datediff|
+----------+------------+--------+
|2019-07-01|  2021-02-26|     606|
|2019-06-24|  2021-02-26|     613|
|2019-08-24|  2021-02-26|     552|
+----------+------------+--------+
```

months_between() Function

Now, Let's see how to get month and year differences between two dates using `months_between()` function.

```
from pyspark.sql.functions import *
df.withColumn("datesDiff", datediff
  .withColumn("montsDiff", months_b
  .withColumn("montsDiff_round",rou
  .withColumn("yearsDiff",months_be
  .withColumn("yearsDiff_round",rou
  .show()
```

Yields below output. Note that here we use round() function and lit() functions on top of months_between() to get the year between two dates.

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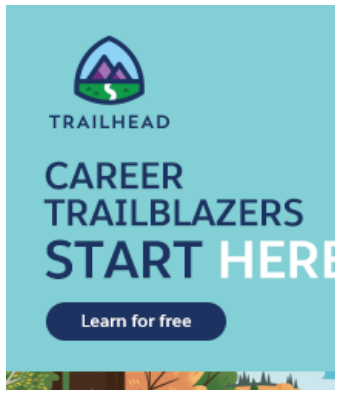


```
+---+----------+---------+---------
| id|      date|datesDiff|  montsDi
+---+----------+---------+---------
|  1|2019-07-01|      606|19.806451
|  2|2019-06-24|      613|20.064516
|  3|2019-08-24|      552|18.064516
+---+----------+---------+---------
```

Let's see another example of the difference between two dates when dates are not in PySpark DateType format `yyyy-MM-dd`. when dates are not in DateType format, all date functions return null. Hence, you need to first convert the input date to Spark DateType using `to_date()` function.

```
from pyspark.sql.functions import *
data2 = [("1","07-01-2019"),("2","0
df2=spark.createDataFrame(data=data
df2.select(
    to_date(col("date"),"MM-dd-yyyy
    current_date().alias("endDate")
    )
```

SQL Example

Let's see how to calculate the difference between two dates in years using PySpark SQL example. similarly you can calculate the days and months between two dates.

```
spark.sql("select round(months_betw
```

Complete Code:

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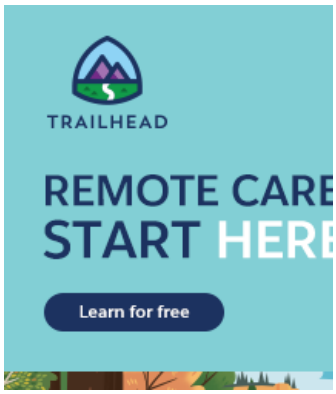


```
from pyspark.sql import SparkSessio

# Create SparkSession
spark = SparkSession.builder \
          .appName('SparkByExamples
          .getOrCreate()
data = [("1","2019-07-01"),("2","20

df=spark.createDataFrame(data=data,

from pyspark.sql.functions import *

df.select(
      col("date"),
      current_date().alias("current
      datediff(current_date(),col("
    ).show()

df.withColumn("datesDiff", datediff
      .withColumn("montsDiff", mont
      .withColumn("montsDiff_round"
      .withColumn("yearsDiff",month
      .withColumn("yearsDiff_round"
      .show()

data2 = [("1","07-01-2019"),("2","0
df2=spark.createDataFrame(data=data
df2.select(
    to_date(col("date"),"MM-dd-yyyy
    current_date().alias("endDate")
    )

spark.sql("select round(months_betw
```

Conclusion:

In this tutorial, you have learned how to alculate days, months, and years between vo dates using PySpark Date and Time unctions (https://sparkbyexamples.com/pyspark/pyspark-sql-date-and-timestamp-functions/) atediff(), months_between(). You can find ıore information about these functions at ıe following blog (https://databricks.com/blog/2015/09/16/apache-spark-1-5-dataframe-api-highlights.html)

Happy Learning !!

Related Articles:

- PySpark SQL – How to Get Current Date & Timestamp

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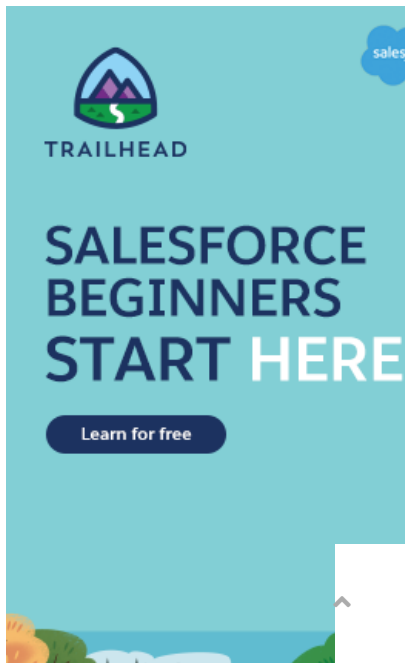

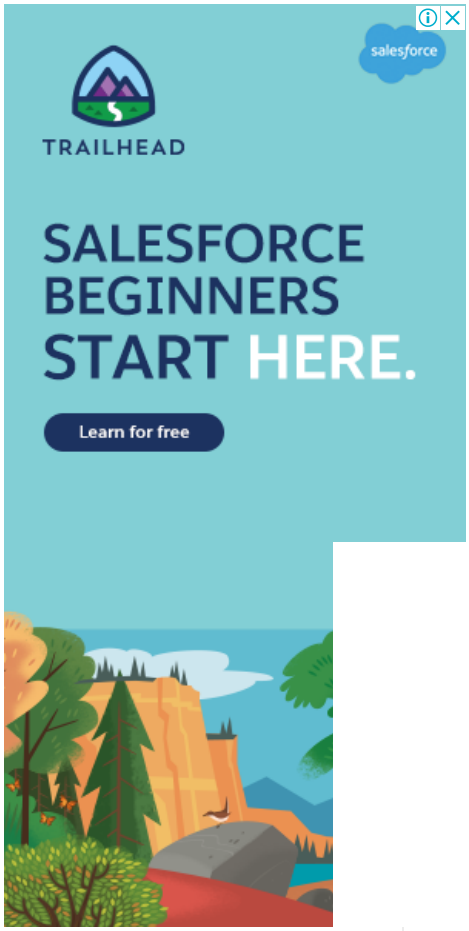

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