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Home > bigdata-success.com > Tutorials - Big Data > TUT - Spark Scala on Zeppelin >

13: Spark on Zeppelin - Dataframe date & timestamp

13: Spark on ZeppelinDataframe date & timestamp



Pre-requisite: Docker is installed on your machine for Mac OS X (E.g. \$ brew cask install docker) or Windows 10. Docker interview Q&As. This extends setting up Apache Zeppelin Notebook.

Step 1: Pull this from the docker hub, and build the image with the following command.

```
1 $ docker pull apache/zeppelin:0.7.3
```

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You can verify the image with the "docker images" command.

Step 2: Run the container with the above image.

```
1 $ docker run --rm -it -p 8080:8080 apache/zeppelin
```

Step 3: Open Zeppelin notebook via a web browser "http:localhost:8080". Create a note book with "spark" as a default interpreter.

Comparing Timstamps

A new column "eligibleForBonus" is added based on Timestamp comparison. "when/otherwise" is used to assign a value. "lit" function is used to convert "cutOffTs" to a Column of literal value.

Step 4:

```
%spark
1
2
3
   import org.apache.spark.sql.types.TimestampType
   import java.sql.Timestamp
5
6
   import org.apache.spark.sql.functions.lit
7
   case class Employee (id: Integer, name: String, jo
8
9
10 val employees = Seq(
11
       Employee(1, "John", Timestamp.valueOf("2016-0)
       Employee(2, "Peter", Timestamp.valueOf("2016-("))
12
       Employee(6, "Elliot", Timestamp.valueOf("2016-
13
14
15
16 | val employeeDF = spark.createDataFrame(
17
     spark.sparkContext.parallelize(employees)
18
19
20 | val cutOffTs: java.sql.Timestamp = Timestamp.valu
21
```

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```
22 val employeeWithEligibilityDf = employeeDF.withCo
23
24 employeeWithEligibilityDf.show()
25
```

Output:

Comparing Dates

```
%spark
1
2
3
   import org.apache.spark.sql.types.TimestampType
4
5
   import java.sql.Timestamp
6
   import java.sql.Date
   import org.apache.spark.sql.functions.{lit, to_da
7
8
9
   case class Employee (id: Integer, name: String, jo
10
11 val employees = Seq(
       Employee(1, "John", Timestamp.value0f("2016-08")
12
       Employee(2, "Peter", Timestamp.valueOf("2016-("))
13
14
       Employee(6, "Elliot", Timestamp.valueOf("2016-
15
16
17
   val employeeDF = spark.createDataFrame(
18
     spark.sparkContext.parallelize(employees)
19
20
21 | val cutOffTs: java.sql.Timestamp = Timestamp.valu
22
23 | val employeeWithEligibilityDf = employeeDF.withCo
24
25 employeeWithEligibilityDf.show()
26
```

Output:

Nested when/otherwise

```
%spark
2
3
4
   import org.apache.spark.sql.types.TimestampType
   import java.sql.Timestamp
   import java.sql.Date
6
7
   import org.apache.spark.sql.functions.{lit, to_dat
8
9
   case class Employee (id: Integer, name: String, de
10
11 | val employees = Seq(
       Employee(1, "John", "Marketing", Timestamp.ve
12
       Employee(2, "Peter", "Accounting", Timestamp.
13
       Employee(6, "Elliot", "Marketing", Timestamp.
14
15 )
16
17 | val employeeDF = spark.createDataFrame(
     spark.sparkContext.parallelize(employees)
18
19 )
20
21 val cutOffTs: java.sql.Timestamp = Timestamp.valu
22
23 | val employeeWithEliqibilityDf = employeeDF.withCo
24
                                                 when(
25
                                                   . otl
26
                                                   .otl
27
28 employeeWithEliqibilityDf.show()
29
```

Output:

8	7	
	8	

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