rk SQL COALESCE on DataFrame – mples

Jpdated on May 8, 2020 by <mark>Vithal S</mark>



will know the importance of coalesce function if you are from or Data Warehouse background. Coalesce function is one of widely used function in SQL. You can use the coalesce function turn non-null values. In this article, we will check how to use a SQL coalesce on an Apache Spark DataFrame with an uple.

k SQL COALESCE on DataFrame

coalesce is a non-aggregate regular function in Spark SQL. The sce gives the first non-null value among the given columns all if all columns are null.

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SQL COALESCE on DataFrame Examples

can apply the COALESCE function on DataFrame column values ou can write your own expression to test conditions.

wing example demonstrates the usage of COALESCE function e DataFrame columns and create new column. We have used ark to demonstrate the Spark coalesce function.

Data



vill be using following DataFrame to test Spark SQL COALESCE tion.

```
DF = sqlContext.createDataFrame([(1,1), (2,2),
e,3), (4,None)], ["id", "number"])
```

-+---+

d|number|

-+----

1 1

2 2

1 3

4| null|

-+----

Required Pyspark Functions

first step, you need to import required functions such as Column, WHERE, etc.

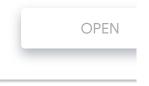
xample, execute the following command on the pyspark nand line interface or add it in your Python script.

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can use the coalesce function either on *DataFrame* or in kSQL query if you are working on tables.

COALESCE Function on DataFrame

is one of the commonly used method to get non null values.

wing example create new column which contains all non null s.

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```
eate new column with non Null values
= testDF.withColumn('newColumn',
esce(testDF['id'], testDF['number']))
```

eck the content of new df

```
d|number|newColumn|
-+----+
1| 1| 1|
2| 2| 2|
1| 3| 3|
4| null| 4|
```

ou can see, newColumn contains non-null values. Optionally, can rename this column and drop existing columns.

ESCE Function in Spark SQL Queries





xample, consider below example which use coalesce in es. Note that, we have registered Spark DataFrame as a temp using registerTempTable method.

context.sql("select *, coalesce(id, number) as
clumn from temp_table").show()

```
-+-----+
d|number|newColumn|
```

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this helps 🙂



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I'm Vithal, a techie by profession, passionate blogger, frequent traveler, Beer lover and many more.. I write

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