Akilesh K

k.akilesh123@gmail.com

Data engineering - Batch 1

Date: 10-02-24

DAY 15 - PYSPARK - Views

Create spark session

```
1 from pyspark.sql import SparkSession
 2 spark=SparkSession.builder.appName("Practice").config("spark.sql.catalogImplementation", "hive").getOrCreate()
Command took 0.20 seconds -- by kakilesh123@gmail.com at 2/10/2024, 2:42:15 PM on hexaCluster
```

Create database

```
spark.sql("CREATE DATABASE customer_db;")
ut[3]: DataFrame[]
mmand took 6.49 seconds -- by kakilesh123@gmail.com at 2/10/2024, 2
```

Add value if not exist

```
spark.sql("CREATE DATABASE IF NOT EXISTS customer_db COMMENT 'This is customer database'WITH DBPROPERTIES (ID=1, Name='John')");
Command took 0.27 seconds -- by kakilesh123@gmail.com at 2/10/2024, 2:43:00 PM on hexaCluster
```

Describe database

```
Cmd 39
1 spark.sql("DESCRIBE DATABASE EXTENDED customer_db;")
 Out[5]: DataFrame[database_description_item: string, database_description_value: string]
 Command took 1.34 seconds -- by kakilesh123@gmail.com at 2/10/2024, 2:44:24 PM on hexaCluster
```

Spark session

Cmd 40

1 from pyspark.sql import SparkSession

```
from pyspark.sql import SparkSession

spark = SparkSession \
    .builder \
    .appName("Python Spark SQL basic example") \
    .config("spark.some.config.option", "some-value") \
    .getOrCreate()
```

Command took 0.06 seconds -- by kakilesh123@gmail.com at 2/10/2024, 3:04:14 PM on hexaCluster

Create dataframe

Command took 7.83 seconds -- by kakilesh123@gmail.com at 2/10/2024, 3:09:15 PM on hexaCluster

Adding 1 to a row

Filter and group by

Views using sparksql

o ! .-

Global view

```
1     df.createGlobalTempView("people")
2     spark.sql("SELECT * FROM global_temp.people").show()
3     spark.newSession().sql("SELECT * FROM global_temp.people").show()
4

     **(6) Spark Jobs**
*****
| age|     name|
*****
| null|Michael|
|     30|     Andy|
|     19| Justin|
*****

*****
| uull|Michael|
|     30|     Andy|
|     19| Justin|
*****

*****

Command took 1.29 seconds -- by kakilesh123@gmail.com at 2/10/2024, 3:11:51 PM on hexaCluster
```