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01: Databricks getting started - Spark, Shell, SQL

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Posted on April 10, 2020

Step 1: Signup to Databricks community edition – https://databricks.com/try-databricks. Fill in the details and you can leave your mobile number blank. Select "COMMUNITY EDITION" ==> "GET STARTED".

#### 300+ Java Interview FAQs

300+ Java FAQs



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# 300+ Big Data Interview FAQs

300+ Big Data FAQs

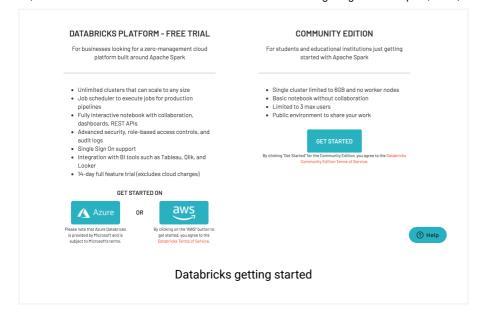


Tutorials - Big Data



TUT - 🔽 Starting Big Data

TUT - Starting Spark & Scala

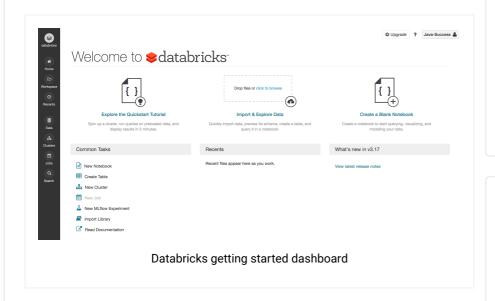


If you have a Cloud account then you can use it.

Step 2: Check your email and click the "<u>link</u>" in the email & reset your password.

Step 3: Login to Databricks notebook:

https://community.cloud.databricks.com/login.html.



**Step 4**: Create a **CLUSTER** and it will take a few minutes to come up. This cluster will go down after 2 hours.

TUT - Starting with Python

TUT - Kafka

TUT - Pig

TUT - Apache Storm

TUT - Spark Scala on Zeppelin

TUT - Cloudera

TUT - Cloudera on Docker

TUT - File Formats

TUT - Spark on Docker

TUT - Flume

TUT - Hadoop (HDFS)

TUT - HBase (NoSQL)

TUT - Hive (SQL)

TUT - Hadoop & Spark

TUT - MapReduce

TUT - Spark and Scala

TUT - Spark & Java

TUT - PySpark on Databricks

TUT - Zookeeper

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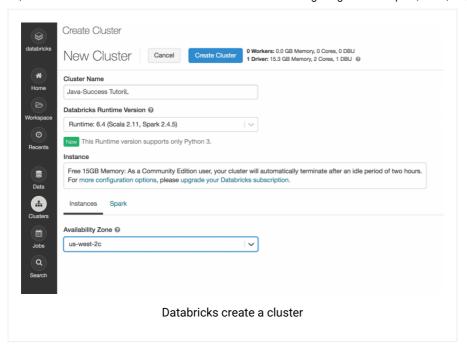


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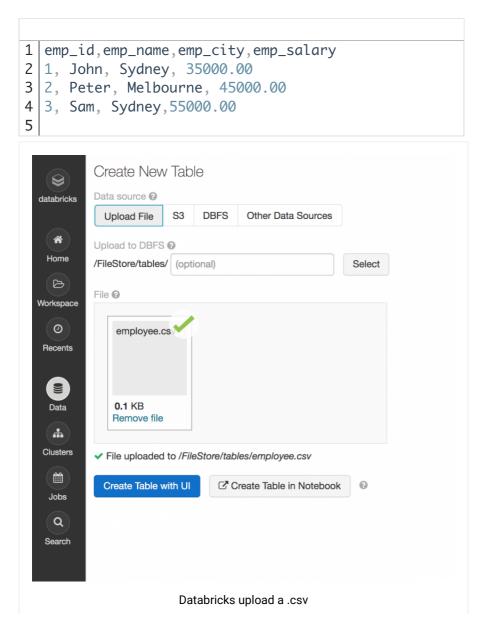


Tutorials -Enterprise Java



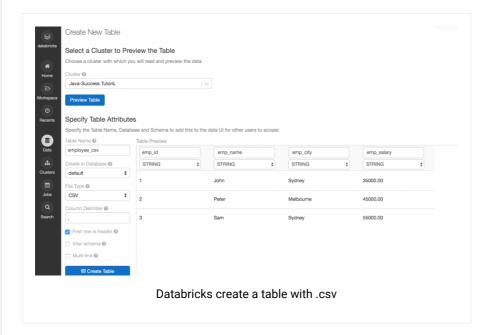


Step 5: Select "DATA", and upload a file named "employee.csv".



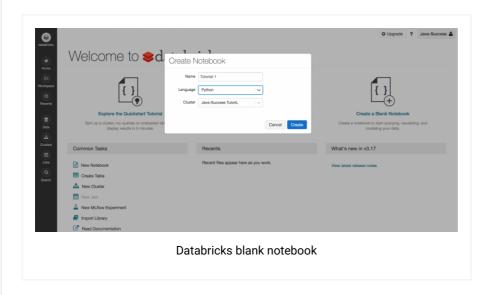
#### Step 6: "Create Table With UI" as shown below:

**Note:** Please check the "**First row is header**" check box on the LHS so that column names appear from the file.



#### Click on "Create Table".

Step 7: Click on the "databricks" icon on the LHS menu, and then "Create a Blank Notebook".



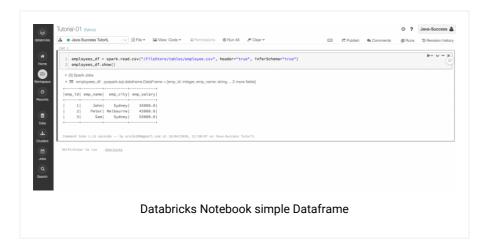
# Spark in Python (i.e.PySpark)

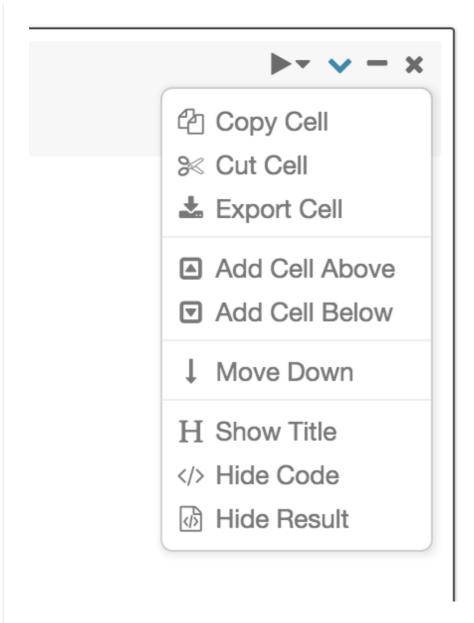
Since we created the notebook as "python", we don't have to do "%python" as it is the default language. If you want to use "scala" then add "%scala" as the first line in a cell.

Step 8: Run the below PySpark code to display uploaded "/FileStore/tables/employee.csv" as a Dataframe.

```
1 employees_df = spark.read.csv("/FileStore/tables/er
2 employees_df.show()
3
```

Click on "Run" in the top "RHS" menu.

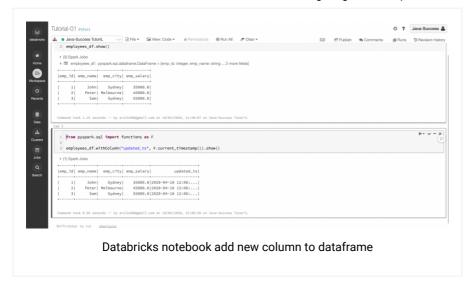




Use "Down Arrow" on in the RHS of a cell to create a new cell.

**Step 9:** Add a new column to the Dataframe in a separate cell and then **Run**.

```
1 from pyspark.sql import functions as F
2 
3 employees_df.withColumn("updated_ts", F.current_tir4
```

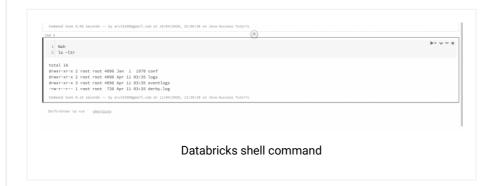


## Run a shell command

You can run a shell command with "%sh" as shown below:

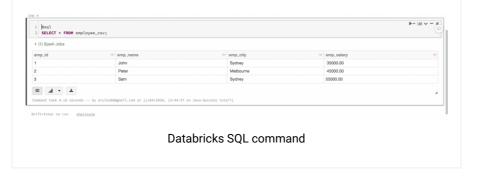
```
1 | %sh
2 |
3 | ls -ltr
4 |
```

You can click on the "+" in the middle to add new cells.



# Run a SQL command

```
1 %sql
2 SELECT * FROM employee_csv;
4
```



## dbutils

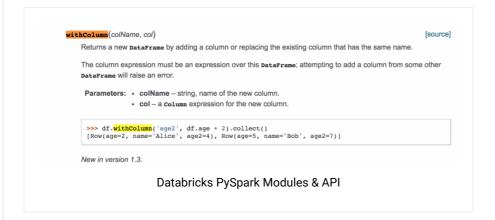
# Spark in Scala



## Important: PySpark API

Have the PySpark API PySpark modules handy to code. You can click on "Dataframe" to see what

# functions are available. For example, **withColumn** function in the Dataframe module



#### Where are my notebooks saved?

Your notebooks will be saved under "workspace" ==> "users" ==> "[your username]"

#### What if you want to practice in Scala?

You an try the examples from Tutorials – Spark Scala on Zeppelin with some minor changes.

AWS Web Application Security Q&As

02: Databricks - Spark schemas, casting & PySpark API >>

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