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# Pig Programming: Create Your First Apache Pig Script

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## Pig Programming: Create Your First Apache Pig Script

In our **Hadoop Tutorial Series** (<https://www.edureka.co/blog/hadoop-tutorial/>), we will now learn how to create an Apache Pig script. Apache Pig scripts are used to execute a set of Apache Pig commands collectively. This helps in reducing the time and effort invested in writing and executing each command manually while doing this in Pig programming. This blog is a step by step guide to help you create your first Apache Pig script.

### Apache Pig script Execution Modes

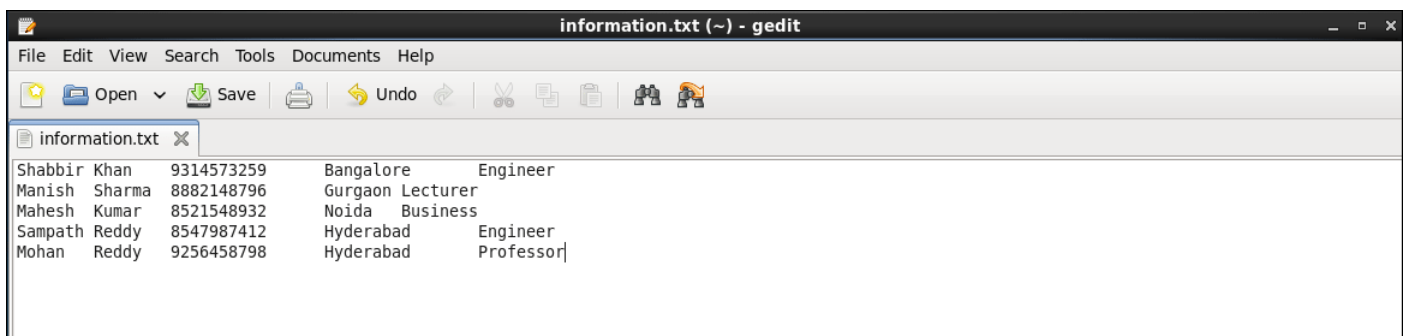
**Local Mode:** In 'local mode', you can execute the pig script in local file system. In this case, you don't need to store the data in Hadoop HDFS file system, instead you can work with the data stored in local file system itself.

**MapReduce Mode:** In 'MapReduce mode', the data needs to be stored in HDFS file system and you can process the data with the help of pig script.

### Apache Pig Script in MapReduce Mode

Let us say our task is to read data from a data file and to display the required contents on the terminal as output.

The sample data file contains following data:



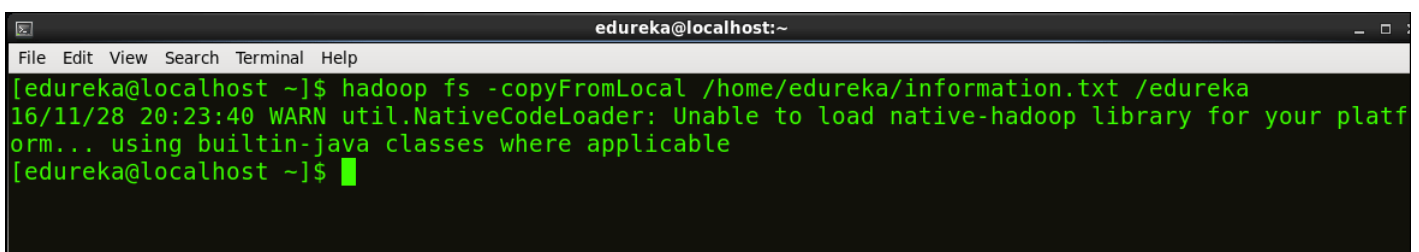
Shabbir Khan	9314573259	Bangalore	Engineer
Manish Sharma	8882148796	Gurgaon	Lecturer
Mahesh Kumar	8521548932	Noida	Business
Sampath Reddy	8547987412	Hyderabad	Engineer
Mohan Reddy	9256458798	Hyderabad	Professor

Save the text file with the name 'information.txt'

The sample data file contains five columns *FirstName*, *LastName*, *MobileNo*, *City*, and *Profession* separated by **tab key**. Our task is to read the content of this file from the HDFS and display all the columns of these records.

To process this data using Pig, this file should be present in Apache Hadoop HDFS.

**Command:** `hadoop fs -copyFromLocal /home/edureka/information.txt /edureka`



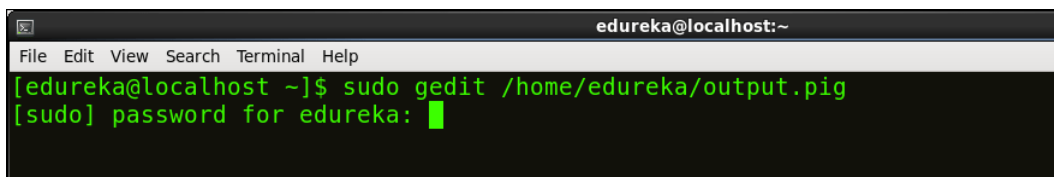
```

edureka@localhost:~$ hadoop fs -copyFromLocal /home/edureka/information.txt /edureka
16/11/28 20:23:40 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
edureka@localhost:~$
  
```

### Step 1: Writing a Pig script

**Command:** `sudo gedit /home/edureka/output.pig`

This command will create a 'output.pig' file inside the home directory of edureka user.



Let's write few PIG commands in output.pig file.

```
A = LOAD '/edureka/information.txt' using PigStorage ('\t') as (FName: chararray, LName: chararray, MobileNo: chararray, City: chararray, Profession: chararray);
B = FOREACH A generate FName, MobileNo, Profession;
DUMP B;
```

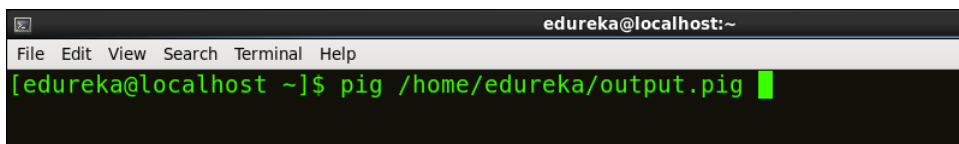
Save and close the file.

- The first command loads the file 'information.txt' into variable A with indirect schema (FName, LName, MobileNo, City, Profession).
- The second command loads the required data from variable A to variable B.
- The third line displays the content of variable B on the terminal/console.

### Step 2: Execute the Apache Pig Script

To execute the pig script in HDFS mode, run the following command:

**Command:** `pig /home/edureka/output.pig`



After the execution finishes, review the result. These below images show the results and their intermediate map and reduce functions.

Below image shows that the Script executed successfully.

```
HadoopVersion  PigVersion      UserId  StartedAt      FinishedAt      Features
2.2.0    0.12.1-SNAPSHOT edureka 2016-11-28 20:29:00  2016-11-28 20:29:20  UNKNOWN

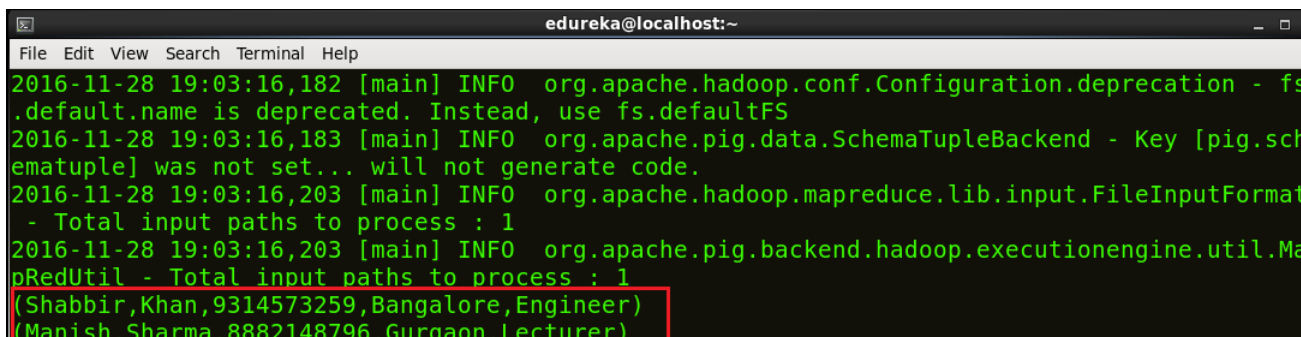
Success!

Job Stats (time in seconds):
JobId  Maps  Reduces MaxMapTime  MinMapTime  AvgMapTime  MedianMapTime  MaxReduce
Time   MinReduceTime  AvgReduceTime  MedianReduceTime  Alias  Feature  Outputs
job_1480332909011_0010  1      0      2      2      2      2      n/a      n/a      n/a      n/a
/a      A,B      MAP_ONLY      hdfs://localhost:8020/tmp/temp896610804/tmp1695440360,

Input(s):
Successfully read 5 records (575 bytes) from: "/edureka/information.txt"

Output(s):
Successfully stored 5 records (281 bytes) in: "hdfs://localhost:8020/tmp/temp896610804/tmp1695440360"
```

Below image shows the result of our script.



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```
(Sampath,Reddy,8547987412,Hyderabad,Engineer)
(Mohan,Reddy,9256458798,Hyderabad,Professor)
2016-11-28 19:03:16,248 [main] INFO  org.apache.hadoop.conf.Configuration.deprecation - ma
preduce.job.counters.limit is deprecated. Instead, use mapreduce.job.counters.max
2016-11-28 19:03:16,249 [main] INFO  org.apache.hadoop.conf.Configuration.deprecation - df
s.permissions is deprecated. Instead, use dfs.permissions.enabled
2016-11-28 19:03:16,249 [main] INFO  org.apache.hadoop.conf.Configuration.deprecation - io
.bytes.per.checksum is deprecated. Instead, use dfs.bytes-per-checksum
[edureka@localhost ~]$
```

Congratulations on executing your first Apache Pig script successfully!

Now you know, how to create and execute Apache Pig script. Hence, our next blog in **Hadoop Tutorial Series** (<https://www.edureka.co/blog/hadoop-tutorial/>) will be covering how to **create UDF (User Defined Functions) in Apache Pig** (<https://www.edureka.co/blog/pig-programming-apache-pig-script-with-udf-in-hdfs-mode/>) and execute it in MapReduce/HDFS mode.





Now that you have created and executed Apache Pig Script, check out the **Hadoop training** (<https://www.edureka.co/big-data-and-hadoop>) by Edureka, a trusted online learning company with a network of more than 250,000 satisfied learners spread across the globe. The Edureka Big Data Hadoop Certification Training course helps learners become expert in HDFS, Yarn, MapReduce, Pig, Hive, HBase, Oozie, Flume and Sqoop using real-time use cases on Retail, Social Media, Aviation, Tourism, Finance domain.

Got a question for us? Please mention it in the comments section and we will get back to you.



About Shubham Sinha (26 Posts (<https://www.edureka.co/blog/author/shubham-sinha/>))

Shubham Sinha is a Big Data and Hadoop expert working as a Research Analyst at Edureka. He is keen to work with Big Data related technologies such as Hadoop, Spark, Flink and Storm and web development technologies including Angular, Node.js & PHP.

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Good example. Its helped me a lot

13 ^ | ▾ • Reply • Share ›

**Subin** • a year ago ▾

Hi,

The second variable B is loaded with only the required data which does not include the LName and city. But the results highlighted shows all the fields.

^ | ▾ • Reply • Share ›

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