Apache Hive with Apache Hivemall

Hivemall: Machine Learning on Hive, Pig and Spark SQL

Install HiveMall https://github.com/myui/hivemall/wiki/Installation

Pick latest release https://github.com/myui/hivemall/releases

Setup Your Environment \$HOME/.hiverc add jar /home/myui/tmp/hivemall-core-xxx-with-dependencies.jar; source /home/myui/tmp/define-all.hive;

Create a directory in HDFS for the JAR

adoop fs -mkdir -p /apps/hivemall hdfs dfs -chmod -R 777 /apps/hivemall cp hivemall-core-0.4.2-rc.2-with-dependencies.jar hivemall-with-dependencies.jar hdfs dfs -put hivemall-with-dependencies.jar /apps/hive/warehouse/ hdfs dfs -put hivemall-core-0.4.2-rc.2-with-dependencies.jar /apps/hivemall

Once installed the hivemall database will be filled with great functions to use for general processing as well as machine learning via SQL.

An example function is for Base91 encoding:

A more useful example is I ran tokenize on messages in a Hive table that I store tweets in.

select hivemall.tokenize(tweets.msg) from tweets limit 10;

```
|
| ["water","pipe","break","#TEST","#TEST","#WATERMAINBREAK","FakeMockTown","NJ","https","//t","c
```

For more examples of usage: https://github.com/myui/hivemall/wiki/webspam-dataset I will be using HiveMall in future projects, I am expecting to include into an NiFi workflow for process NLP and other machine learning operations. The project has just joined Apache.