## PIG Installation

## 1) Download PIG Binary

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1a) Change to your Hadoop installation director and download the compiled PIG binary
cd /usr/local/Cellar/hadoop/2.7.2
wget http://apache.spinellicreations.com/pig/pig-0.16.0/pig-0.16.0.tar.gz
1a) Unpackge PIG
sudo tar -xzvf pig-0.16.0.tar.gz
1b) Set you path for PIG
export PATH=/<my-path-to-pig>/pig-n.n.n/bin:$PATH
for mac OSX
export HADOOP_HOME=/usr/local/Cellar/hadoop/2.7.2
export PATH=/usr/local/Cellar/hadoop/2.7.2/pig-0.16.0/bin:$PATH
export JAVA_HOME=/Library/Java/JavaVirtualMachines/jdk1.8.0_101.jdk/Contents/Home
1c) Download Sample Dataset
wget https://github.com/hortonworks/tutorials/raw/hdp-2.5/driver_data.zip
unzip driver_data.zip
./bin/hadoop fs -mkdir /user/pig_example
./bin/hadoop fs -put /driver_data/truck_event_text_partition.csv /user/pig_example
./bin/hadoop fs -put /driver_data/truck_event_text_partition.csv /user/pig_example
2) PIG Examples
2a) Load truck data and define a schema to use in PIG
truck_events = LOAD '/user/pig_example/truck_event_text_partition.csv' USING PigStorage(',')
AS (driverId:int, truckId:int, eventTime:chararray,
eventType:chararray, longitude:double, latitude:double,
eventKey:chararray, correlationId:long, driverName:chararray,
routeId:long,routeName:chararray,eventDate:chararray);
DESCRIBE truck_events;
2b) Load truck data and define a schema to use in PIG
truck_events_subset = LIMIT truck_events 100;
DESCRIBE truck_events_subset;
2c) Describe a subset of the data (specific columns)
specific_columns = FOREACH truck_events_subset GENERATE driverId, eventTime, eventType;
DESCRIBE specific_columns;
2d) Store a subset into an HDFS location
STORE specific_columns INTO '/user/pig_example' USING PigStorage(',');
2e) Perform a join using multiple tables
truck_events = LOAD '/user/pig_example/truck_event_text_partition.csv' USING PigStorage(',')
AS (driverId:int, truckId:int, eventTime:chararray, eventType:chararray, longitude:double, latitude:double,
eventKey:chararray, correlationId:long, driverName:chararray,
routeId:long,routeName:chararray,eventDate:chararray);
```

## Big Data Analytics PIG Installation Guide