pyddf Documentation

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Adatao

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ddf package

1.1 Submodules

1.2 ddf.conf module

```
ddf.conf.find_ddf()
```

1.3 ddf.dataframe module

```
Created on Jun 22, 2014
@author: nhanityn
class ddf.dataframe.DistributedDataFrame (jddf)
     Bases: object
     A Distributed Data Frame, the basic abstraction in DistributedDataFrame library.
     aggregate (aggr_columns, by_columns)
          Split the DistributedDataFrame into sub-sets by some columns and perform aggregation on some
          columns within each sub-set
     colnames
          List the column names of this DDF
              Returns a list of strings
     cols
          Get number of columns of this DDF
              Returns an int
     correlation (col1, col2)
          Correlation coefficient of a DistributedDataFrame's two numeric columns
              Parameters
                  • col1 – a numeric column
                  • col2 – a numeric column
              Returns a float
     drop_na()
     five_nums()
```

Calculate Turkey five number for numeric columns

```
head(n=10)
     Return this DistributedDataFrame's some first rows
project (column_names)
     Project on some columns and return a new DistributedDataFrame
rows
     Get number of rows of this DDF
         Returns an int
sample (size, replacement=False, seed=123)
     Get a sample of this DistributedDataFrame and return a list of strings
         Parameters
             • size - number of samples
             • replacement – sample with or without replacement
             • seed - random seed
```

Returns WRITE ME

sample2ddf (fraction, replacement=False, seed=123)

Get a sample of this DistributedDataFrame and return a new DistributedDataFrame

Parameters

- **fraction** fraction to take sample, has to be in the (0, 1] range
- replacement sample with or without replacement
- seed random seed

Returns a new DistributedDataFrame

summary()

Calculate this DistributedDataFrame's columns'summary numbers

1.4 ddf.ddf manager module

```
Created on Jun 22, 2014
@author: nhanityn
class ddf.ddf_manager.DDFManager(engine_name)
     Bases: object
     mented for Spark framework.
```

Main entry point for DDF functionality. A SparkDDFManager can be used to create DDFs that are imple-

```
shutdown()
```

Shut down the DDF Manager

sql (command)

Execute a sql command and return a list of strings :param command: the sql command to run

sql2ddf(command)

Create a DistributedDataFrame from an sql command. :param command: the sql command to run

1.5 ddf.gateway module

```
ddf.gateway.compute classpath (root path)
ddf.gateway.list_jar_files(path)
```

```
ddf.gateway.pre_exec_func()
ddf.gateway.start_gateway_server()
```

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