

MapReduce on HBase

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- 1. 可以使用Mapreduce的方法操作hbase数据库
- 2. Hadoop Mapreduce提供相关API,可以与hbase数据库无缝连接
- 3. API link: http://hbase.apache.org/devapidocs/index.html

相关类



Hbase MapReduce	Hadoop MapReduce
org.apache.hadoop.hbase.mapreduce.TableMapper	org.apache.hadoop.mapreduce.Mapper
org.apache.hadoop.hbase.mapreduce.TableReducer	org.apache.hadoop.mapreduce.Reducer
org.apache.hadoop.hbase.mapreduce.TableInputFormat	org.apache.hadoop.mapreduce.InputFormat
org. apache. hadoop. hbase. mapreduce. Table Output Format	org.apache.hadoop.mapreduce.OutputFormat

相关类



Class TableMapper<KEYOUT,VALUEOUT>

java.lang.Object

org.apache.hadoop.mapreduce.Mapper<ImmutableBytesWritable,Result,KEYOUT,VALUEOUT> org.apache.hadoop.hbase.mapreduce.TableMapper<KEYOUT,VALUEOUT>

Type Parameters:

KEYOUT - The type of the key.

VALUEOUT - The type of the value.

Direct Known Subclasses:

GroupingTableMapper, IdentityTableMapper, Import.Importer, Import.KeyValueImporter, MultithreadedTableMapper, VerifyReplication.Verifier

@InterfaceAudience.Public
@InterfaceStability.Stable
public abstract class TableMapper<KEYOUT, VALUEOUT>
extends org.apache.hadoop.mapreduce.Mapper<ImmutableBytesWritable,Result,KEYOUT,VALUEOUT>

Extends the base Mapper class to add the required input key and value classes.

相关类



Class TableReducer<KEYIN,VALUEIN,KEYOUT>

java.lang.Object

org.apache.hadoop.mapreduce.Reducer<KEYIN,VALUEIN,KEYOUT,Mutation> org.apache.hadoop.hbase.mapreduce.TableReducer<KEYIN,VALUEIN,KEYOUT>

Type Parameters:

KEYIN - The type of the input key.

VALUEIN - The type of the input value.

KEYOUT - The type of the output key.

Direct Known Subclasses:

IdentityTableReducer

@InterfaceAudience.Public
@InterfaceStability.Stable
public abstract class TableReducer<KEYIN, VALUEIN, KEYOUT>
extends org.apache.hadoop.mapreduce.Reducer<KEYIN, VALUEIN, KEYOUT, Mutation>

Extends the basic Reducer class to add the required key and value input/output classes. While the input key and value as well as the output key can be anything handed in from the previous map phase the output value <u>must</u> be either a Put or a Delete instance when using the TableOutputFormat class.

This class is extended by IdentityTableReducer but can also be subclassed to implement similar features or any custom code needed. It has the advantage to enforce the output value to a specific basic type.