package com.twitter.search.earlybird\_root.collectors;

import java.util.Comparator;

import java.util.List;

import com.twitter.search.common.relevance.utils.ResultComparators;

import com.twitter.search.earlybird.thrift.EarlybirdResponse;

import com.twitter.search.earlybird.thrift.ThriftSearchResult;

import com.twitter.search.earlybird.thrift.ThriftSearchResults;

/\*\*

\* {@link RecencyMergeCollector} inherits {@link MultiwayMergeCollector} for the type

\* {@link com.twitter.search.earlybird.thrift.ThriftSearchResult} as the result type.

\* <p/>

\* It also implements two public methods to retrieve the top-k or all results.

\*/

public class RecencyMergeCollector extends MultiwayMergeCollector<ThriftSearchResult> {

// Container for the final results array and also stats like numHitsProcessed etc...

protected final ThriftSearchResults finalResults = new ThriftSearchResults();

public RecencyMergeCollector(int numResponses) {

this(numResponses, ResultComparators.ID\_COMPARATOR);

}

protected RecencyMergeCollector(int numResponses, Comparator<ThriftSearchResult> comparator) {

super(numResponses, comparator);

}

@Override

protected void collectStats(EarlybirdResponse response) {

super.collectStats(response);

ThriftSearchResults searchResults = response.getSearchResults();

if (searchResults.isSetNumHitsProcessed()) {

finalResults.setNumHitsProcessed(

finalResults.getNumHitsProcessed() + searchResults.getNumHitsProcessed());

}

if (searchResults.isSetNumPartitionsEarlyTerminated()) {

finalResults.setNumPartitionsEarlyTerminated(

finalResults.getNumPartitionsEarlyTerminated()

+ searchResults.getNumPartitionsEarlyTerminated());

}

}

@Override

protected final List<ThriftSearchResult> collectResults(EarlybirdResponse response) {

if (response != null

&& response.isSetSearchResults()

&& response.getSearchResults().getResultsSize() > 0) {

return response.getSearchResults().getResults();

} else {

return null;

}

}

/\*\*

\* Gets all the results that has been collected.

\*

\* @return {@link ThriftSearchResults} containing a list of results sorted by provided

\* comparator in descending order.

\*/

public final ThriftSearchResults getAllSearchResults() {

return finalResults.setResults(getResultsList());

}

@Override

protected final boolean isResponseValid(EarlybirdResponse response) {

if (response == null || !response.isSetSearchResults()) {

LOG.warn("searchResults was null: " + response);

return false;

}

return true;

}

}