package com.twitter.search.common.query;

import java.io.IOException;

import com.google.common.annotations.VisibleForTesting;

import com.google.common.base.Preconditions;

import org.apache.lucene.index.IndexReader;

import org.apache.lucene.search.IndexSearcher;

import org.apache.lucene.search.Query;

import org.apache.lucene.search.ScoreMode;

import org.apache.lucene.search.Weight;

/\*\*

\* Query implementation adds attribute collection support for an underlying query.

\*/

public class IdentifiableQuery extends Query {

protected final Query inner;

private final FieldRankHitInfo queryId;

private final HitAttributeCollector attrCollector;

public IdentifiableQuery(Query inner, FieldRankHitInfo queryId,

HitAttributeCollector attrCollector) {

this.inner = Preconditions.checkNotNull(inner);

this.queryId = queryId;

this.attrCollector = Preconditions.checkNotNull(attrCollector);

}

@Override

public Weight createWeight(

IndexSearcher searcher, ScoreMode scoreMode, float boost) throws IOException {

Weight innerWeight = inner.createWeight(searcher, scoreMode, boost);

return new IdentifiableQueryWeight(this, innerWeight, queryId, attrCollector);

}

@Override

public Query rewrite(IndexReader reader) throws IOException {

Query rewritten = inner.rewrite(reader);

if (rewritten != inner) {

return new IdentifiableQuery(rewritten, queryId, attrCollector);

}

return this;

}

@Override

public int hashCode() {

return inner.hashCode() \* 13 + (queryId == null ? 0 : queryId.hashCode());

}

@Override

public boolean equals(Object obj) {

if (!(obj instanceof IdentifiableQuery)) {

return false;

}

IdentifiableQuery identifiableQuery = IdentifiableQuery.class.cast(obj);

return inner.equals(identifiableQuery.inner)

&& (queryId == null

? identifiableQuery.queryId == null

: queryId.equals(identifiableQuery.queryId));

}

@Override

public String toString(String field) {

return inner.toString(field);

}

@VisibleForTesting

public Query getQueryForTest() {

return inner;

}

@VisibleForTesting

public FieldRankHitInfo getQueryIdForTest() {

return queryId;

}

}