package com.twitter.search.core.earlybird.index.util;

import java.io.IOException;

import org.apache.lucene.index.LeafReader;

import org.apache.lucene.search.DocIdSetIterator;

/\*\*

\* A doc id set iterator that iterates over a filtered set of ids from firstId inclusive to lastId

\* inclusive.

\*/

public class RangeFilterDISI extends DocIdSetIterator {

private final RangeDISI delegate;

public RangeFilterDISI(LeafReader reader) throws IOException {

this(reader, 0, reader.maxDoc() - 1);

}

public RangeFilterDISI(LeafReader reader, int smallestDocID, int largestDocID)

throws IOException {

this.delegate = new RangeDISI(reader, smallestDocID, largestDocID);

}

@Override

public int docID() {

return delegate.docID();

}

@Override

public int nextDoc() throws IOException {

delegate.nextDoc();

return nextValidDoc();

}

@Override

public int advance(int target) throws IOException {

delegate.advance(target);

return nextValidDoc();

}

private int nextValidDoc() throws IOException {

int doc = delegate.docID();

while (doc != NO\_MORE\_DOCS && !shouldReturnDoc()) {

doc = delegate.nextDoc();

}

return doc;

}

@Override

public long cost() {

return delegate.cost();

}

// Override this method to add additional filters. Should return true if the current doc is OK.

protected boolean shouldReturnDoc() throws IOException {

return true;

}

}