package com.twitter.search.common.relevance.features;

import java.util.concurrent.TimeUnit;

import com.twitter.search.common.encoding.features.ByteNormalizer;

import com.twitter.search.common.encoding.features.IntNormalizer;

import com.twitter.search.common.encoding.features.PredictionScoreNormalizer;

/\*\*

\* Int value normalizers used to push feature values into earlybird db. For the

\* 8-bit feature types, this class wraps the

\* com.twitter.search.common.relevance.features.MutableFeatureNormalizers

\*/

public final class IntNormalizers {

private IntNormalizers() {

}

public static final IntNormalizer LEGACY\_NORMALIZER =

val -> ByteNormalizer.unsignedByteToInt(

MutableFeatureNormalizers.BYTE\_NORMALIZER.normalize(val));

public static final IntNormalizer SMART\_INTEGER\_NORMALIZER =

val -> ByteNormalizer.unsignedByteToInt(

MutableFeatureNormalizers.SMART\_INTEGER\_NORMALIZER.normalize(val));

// The PARUS\_SCORE feature is deprecated and is never set in our indexes. However, we still need

// this normalizer for now, because some models do not work properly with "missing" features, so

// for now we still need to set the PARUS\_SCORE feature to 0.

public static final IntNormalizer PARUS\_SCORE\_NORMALIZER = val -> 0;

public static final IntNormalizer BOOLEAN\_NORMALIZER =

val -> val == 0 ? 0 : 1;

public static final IntNormalizer TIMESTAMP\_SEC\_TO\_HR\_NORMALIZER =

val -> (int) TimeUnit.SECONDS.toHours((long) val);

public static final PredictionScoreNormalizer PREDICTION\_SCORE\_NORMALIZER =

new PredictionScoreNormalizer(3);

}