package com.twitter.home\_mixer.product.scored\_tweets.feature\_hydrator.real\_time\_aggregates

import com.google.inject.name.Named

import com.twitter.finagle.stats.StatsReceiver

import com.twitter.home\_mixer.param.HomeMixerInjectionNames.TweetEngagementCache

import com.twitter.home\_mixer.util.CandidatesUtil

import com.twitter.ml.api.DataRecord

import com.twitter.product\_mixer.component\_library.model.candidate.TweetCandidate

import com.twitter.product\_mixer.core.feature.FeatureWithDefaultOnFailure

import com.twitter.product\_mixer.core.feature.datarecord.DataRecordInAFeature

import com.twitter.product\_mixer.core.model.common.CandidateWithFeatures

import com.twitter.product\_mixer.core.model.common.identifier.FeatureHydratorIdentifier

import com.twitter.product\_mixer.core.pipeline.PipelineQuery

import com.twitter.servo.cache.ReadCache

import com.twitter.timelines.data\_processing.ml\_util.aggregation\_framework.AggregateGroup

import com.twitter.timelines.prediction.common.aggregates.real\_time.TimelinesOnlineAggregationFeaturesOnlyConfig.\_

import javax.inject.Inject

import javax.inject.Singleton

object TweetEngagementRealTimeAggregateFeature

extends DataRecordInAFeature[TweetCandidate]

with FeatureWithDefaultOnFailure[TweetCandidate, DataRecord] {

override def defaultValue: DataRecord = new DataRecord()

}

@Singleton

class TweetEngagementRealTimeAggregateFeatureHydrator @Inject() (

@Named(TweetEngagementCache) override val client: ReadCache[Long, DataRecord],

override val statsReceiver: StatsReceiver)

extends BaseRealTimeAggregateBulkCandidateFeatureHydrator[Long] {

override val identifier: FeatureHydratorIdentifier =

FeatureHydratorIdentifier("TweetEngagementRealTimeAggregate")

override val outputFeature: DataRecordInAFeature[TweetCandidate] =

TweetEngagementRealTimeAggregateFeature

override val aggregateGroups: Seq[AggregateGroup] = Seq(

tweetEngagement30MinuteCountsProd,

tweetEngagementTotalCountsProd,

tweetEngagementUserStateRealTimeAggregatesProd,

tweetNegativeEngagementUserStateRealTimeAggregates,

tweetNegativeEngagement6HourCounts,

tweetNegativeEngagementTotalCounts,

tweetShareEngagementsRealTimeAggregates,

tweetBCEDwellEngagementsRealTimeAggregates

)

override val aggregateGroupToPrefix: Map[AggregateGroup, String] = Map(

tweetShareEngagementsRealTimeAggregates -> "original\_tweet.timelines.tweet\_share\_engagements\_real\_time\_aggregates.",

tweetBCEDwellEngagementsRealTimeAggregates -> "original\_tweet.timelines.tweet\_bce\_dwell\_engagements\_real\_time\_aggregates."

)

override def keysFromQueryAndCandidates(

query: PipelineQuery,

candidates: Seq[CandidateWithFeatures[TweetCandidate]]

): Seq[Option[Long]] = {

candidates

.map(candidate => Some(CandidatesUtil.getOriginalTweetId(candidate)))

}

}