package com.twitter.recos.graph\_common

import com.twitter.graphjet.algorithms.TweetIDMask

import com.twitter.graphjet.bipartite.api.BipartiteGraph

import scala.collection.mutable.ListBuffer

/\*

\* The helper class encodes and decodes tweet ids with tweetypie's card information

\* when querying recos salsa library. Inside salsa library, all tweet ids are

\* encoded with card information for the purpose of inline filtering.

\*/

class BipartiteGraphHelper(graph: BipartiteGraph) {

private val tweetIDMask = new TweetIDMask

def getLeftNodeEdges(leftNode: Long): Seq[(Long, Byte)] = {

val iterator = graph.getLeftNodeEdges(leftNode)

val edges: ListBuffer[(Long, Byte)] = ListBuffer()

if (iterator != null) {

while (iterator.hasNext) {

val node = iterator.nextLong()

val engagementType = iterator.currentEdgeType()

edges += ((tweetIDMask.restore(node), engagementType))

}

}

edges.reverse.distinct // Most recent edges first, no duplications

}

def getRightNodeEdges(rightNode: Long): Seq[Long] = {

val iterator = graph.getRightNodeEdges(rightNode)

val leftNodes: ListBuffer[Long] = ListBuffer()

if (iterator != null) {

while (iterator.hasNext) {

leftNodes += iterator.nextLong()

}

}

leftNodes.reverse.distinct // Most recent edges first, no duplications

}

}