package com.twitter.recos.user\_video\_graph.util

import com.twitter.graphjet.bipartite.MultiSegmentIterator

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

import com.twitter.graphjet.bipartite.segment.BipartiteGraphSegment

import java.util.Random

import scala.collection.mutable.ListBuffer

object SampleLHSUsersUtil {

// sample userId nodes

def sampleLHSUsers(

maskedTweetId: Long,

maxNumSamplesPerNeighbor: Int,

bipartiteGraph: BipartiteGraph

): Seq[Long] = {

val sampledUserIdsIterator = bipartiteGraph

.getRandomRightNodeEdges(

maskedTweetId,

maxNumSamplesPerNeighbor,

new Random(System.currentTimeMillis)).asInstanceOf[MultiSegmentIterator[

BipartiteGraphSegment

]]

val userIds = new ListBuffer[Long]()

if (sampledUserIdsIterator != null) {

while (sampledUserIdsIterator.hasNext) {

val leftNode = sampledUserIdsIterator.nextLong()

// If a user likes too many things, we risk including spammy behavior.

if (bipartiteGraph.getLeftNodeDegree(leftNode) < 100)

userIds += leftNode

}

}

userIds

}

}