package com.twitter.product\_mixer.core.quality\_factor

import com.twitter.util.Duration

import com.twitter.util.Stopwatch

import com.twitter.util.TokenBucket

/\*\*

\* Query rate counter based on a leaky bucket. For more, see [[com.twitter.util.TokenBucket]].

\*/

case class QueryRateCounter private[quality\_factor] (

queryRateWindow: Duration) {

private val queryRateWindowInSeconds = queryRateWindow.inSeconds

private val leakyBucket: TokenBucket =

TokenBucket.newLeakyBucket(ttl = queryRateWindow, reserve = 0, nowMs = Stopwatch.timeMillis)

def increment(count: Int): Unit = leakyBucket.put(count)

def getRate(): Double = leakyBucket.count / queryRateWindowInSeconds

}