package com.twitter.search.common.schema.earlybird;

import java.util.Set;

import com.google.common.annotations.VisibleForTesting;

import com.google.common.collect.ImmutableSet;

/\*\*

\* A list of existing Earlybird clusters.

\*/

public enum EarlybirdCluster {

/\*\*

\* Realtime earlybird cluster. Has 100% of tweet for about 7 days.

\*/

REALTIME,

/\*\*

\* Protected earlybird cluster. Has only tweets from protected accounts.

\*/

PROTECTED,

/\*\*

\* Full archive cluster. Has all tweets until about 2 days ago.

\*/

FULL\_ARCHIVE,

/\*\*

\* SuperRoot cluster. Talks to the other clusters instead of talking directly to earlybirds.

\*/

SUPERROOT,

/\*\*

\* A dedicated cluster for Candidate Generation use cases based on Earlybird in Home/PushService

\*/

REALTIME\_CG;

public String getNameForStats() {

return name().toLowerCase();

}

public static boolean isArchive(EarlybirdCluster cluster) {

return isClusterInSet(cluster, ARCHIVE\_CLUSTERS);

}

public static boolean isTwitterMemoryFormatCluster(EarlybirdCluster cluster) {

return isClusterInSet(cluster, TWITTER\_IN\_MEMORY\_INDEX\_FORMAT\_GENERAL\_PURPOSE\_CLUSTERS);

}

public static boolean hasEarlybirds(EarlybirdCluster cluster) {

return cluster != SUPERROOT;

}

private static boolean isClusterInSet(EarlybirdCluster cluster, Set<EarlybirdCluster> set) {

return set.contains(cluster);

}

protected static final ImmutableSet<EarlybirdCluster> ARCHIVE\_CLUSTERS =

ImmutableSet.of(FULL\_ARCHIVE);

@VisibleForTesting

public static final ImmutableSet<EarlybirdCluster>

TWITTER\_IN\_MEMORY\_INDEX\_FORMAT\_GENERAL\_PURPOSE\_CLUSTERS =

ImmutableSet.of(

REALTIME,

PROTECTED);

@VisibleForTesting

public static final ImmutableSet<EarlybirdCluster> TWITTER\_IN\_MEMORY\_INDEX\_FORMAT\_ALL\_CLUSTERS =

ImmutableSet.of(

REALTIME,

PROTECTED,

REALTIME\_CG);

/\*\*

\* Constant for field used in general purpose clusters,

\* Note that GENERAL\_PURPOSE\_CLUSTERS does not include REALTIME\_CG. If you wish to include REALTIME\_CG,

\* please use ALL\_CLUSTERS

\*/

protected static final ImmutableSet<EarlybirdCluster> GENERAL\_PURPOSE\_CLUSTERS =

ImmutableSet.of(

REALTIME,

PROTECTED,

FULL\_ARCHIVE,

SUPERROOT);

protected static final ImmutableSet<EarlybirdCluster> ALL\_CLUSTERS =

ImmutableSet.of(

REALTIME,

PROTECTED,

FULL\_ARCHIVE,

SUPERROOT,

REALTIME\_CG);

}