> summary(train)

ACTION RESOURCE MGR\_ID

Min. :0.0000 Min. : 0 Min. : 25

1st Qu.:1.0000 1st Qu.: 20299 1st Qu.: 4566

Median :1.0000 Median : 35376 Median : 13545

Mean :0.9421 Mean : 42924 Mean : 25989

3rd Qu.:1.0000 3rd Qu.: 74189 3rd Qu.: 42034

Max. :1.0000 Max. :312153 Max. :311696

ROLE\_ROLLUP\_1 ROLE\_ROLLUP\_2 ROLE\_DEPTNAME

Min. : 4292 Min. : 23779 Min. : 4674

1st Qu.:117961 1st Qu.:118102 1st Qu.:118395

Median :117961 Median :118300 Median :118921

Mean :116953 Mean :118302 Mean :118913

3rd Qu.:117961 3rd Qu.:118386 3rd Qu.:120535

Max. :311178 Max. :286791 Max. :286792

ROLE\_TITLE ROLE\_FAMILY\_DESC ROLE\_FAMILY

Min. :117879 Min. : 4673 Min. : 3130

1st Qu.:118274 1st Qu.:117906 1st Qu.:118363

Median :118568 Median :128696 Median :119006

Mean :125916 Mean :170178 Mean :183703

3rd Qu.:120006 3rd Qu.:235280 3rd Qu.:290919

Max. :311867 Max. :311867 Max. :308574

ROLE\_CODE

Min. :117880

1st Qu.:118232

Median :118570

Mean :119789

3rd Qu.:119348

Max. :270691

> View(train)

> train.features = train

> train.features$ACTION<-NULL

> summary(train.features)

RESOURCE MGR\_ID ROLE\_ROLLUP\_1

Min. : 0 Min. : 25 Min. : 4292

1st Qu.: 20299 1st Qu.: 4566 1st Qu.:117961

Median : 35376 Median : 13545 Median :117961

Mean : 42924 Mean : 25989 Mean :116953

3rd Qu.: 74189 3rd Qu.: 42034 3rd Qu.:117961

Max. :312153 Max. :311696 Max. :311178

ROLE\_ROLLUP\_2 ROLE\_DEPTNAME ROLE\_TITLE

Min. : 23779 Min. : 4674 Min. :117879

1st Qu.:118102 1st Qu.:118395 1st Qu.:118274

Median :118300 Median :118921 Median :118568

Mean :118302 Mean :118913 Mean :125916

3rd Qu.:118386 3rd Qu.:120535 3rd Qu.:120006

Max. :286791 Max. :286792 Max. :311867

ROLE\_FAMILY\_DESC ROLE\_FAMILY ROLE\_CODE

Min. : 4673 Min. : 3130 Min. :117880

1st Qu.:117906 1st Qu.:118363 1st Qu.:118232

Median :128696 Median :119006 Median :118570

Mean :170178 Mean :183703 Mean :119789

3rd Qu.:235280 3rd Qu.:290919 3rd Qu.:119348

Max. :311867 Max. :308574 Max. :270691

> result = kmeans(train.features, 2)

> result

K-means clustering with 2 clusters of sizes 14501, 18268

Cluster means:

RESOURCE MGR\_ID ROLE\_ROLLUP\_1 ROLE\_ROLLUP\_2

1 43436.38 22053.32 117173.9 118560.3

2 42517.13 29113.03 116777.0 118096.7

ROLE\_DEPTNAME ROLE\_TITLE ROLE\_FAMILY\_DESC ROLE\_FAMILY

1 119155.2 124615 153406.4 291040.14

2 118720.3 126949 183491.8 98500.33

ROLE\_CODE

1 118707.1

2 120648.6

Clustering vector:

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Within cluster sum of squares by cluster:

[1] 1.003076e+14 2.109719e+14

(between\_SS / total\_SS = 49.7 %)

Available components:

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[4] "withinss" "tot.withinss" "betweenss"

[7] "size" "iter" "ifault"

> summary(result)

Length Class Mode

cluster 32769 -none- numeric

centers 18 -none- numeric

totss 1 -none- numeric

withinss 2 -none- numeric

tot.withinss 1 -none- numeric

betweenss 1 -none- numeric

size 2 -none- numeric

iter 1 -none- numeric

ifault 1 -none- numeric