```
> 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:

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(between_SS / total_SS = 49.7 %)

Available components:

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