STAT448 Assignment2

Dan Wei

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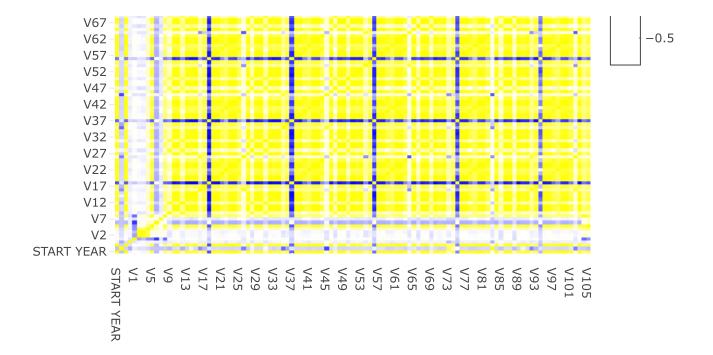
R Markdown

```
# install package "corrplot", "plotly", "caret", "MASS", "glmnet", "leaps"
library(corrplot)
## Warning: 程辑包'corrplot'是用R版本4.2.3 来建造的
## corrplot 0.92 loaded
library(plotly)
## Warning: 程辑包'plotly'是用R版本4.2.3 来建造的
## 载入需要的程辑包: ggplot2
## Warning: 程辑包'ggplot2'是用R版本4.2.3 来建造的
## 载入程辑包: 'plotly'
## The following object is masked from 'package:ggplot2':
##
      last_plot
##
## The following object is masked from 'package:stats':
##
##
      filter
## The following object is masked from 'package:graphics':
##
##
      layout
library(caret)
## Warning: 程辑包'caret'是用R版本4.2.3 来建造的
## 载入需要的程辑包: lattice
```

library(MASS) ## Warning: 程辑包'MASS'是用R版本4.2.3 来建造的 ## ## 载入程辑包: 'MASS' ## The following object is masked from 'package:plotly': ## ## select library(glmnet) ## Warning: 程辑包'glmnet'是用R版本4.2.3 来建造的 ## 载入需要的程辑包: Matrix ## Warning: 程辑包'Matrix'是用R版本4.2.3 来建造的 ## Loaded glmnet 4.1-8 library(leaps) ## Warning: 程辑包'leaps'是用R版本4.2.3 来建造的 a. # Load the dataset load("Residen.RData") # Assuming 'Residen' is correctly loaded and is a data frame or matrix suitable for correlati on analysis correlation_matrix <- cor(Residen, use = "complete.obs")</pre> # Create a heatmap of the correlation matrix using plotly $p \leftarrow plot_ly(x = colnames(correlation_matrix), y = rownames(correlation_matrix), z = correlation_matrix)$ ion_matrix, type = "heatmap", colors = colorRamp(c("blue", "white", "yellow"))) p <- p %>% layout(title = "Correlation Matrix Heatmap") p <- p %>% layout(autosize = TRUE) Correlation Matrix Heatmap 1 V102 V97 V92 0.5 V87 V82 V77

V72

0



b.

```
# Delete V105
Residen <- Residen[,-109]</pre>
```

```
# set seed for reproducible results.
set.seed(2024)

# Sample the dataset. Returns a list of row indices. 80:20 split.
row.number <- sample(1:nrow(Residen), 0.8*nrow(Residen))

# create the train and test datasets.
train <- Residen[row.number,]
test <- Residen[-row.number,]

# show dimensions of the train and test sets.
dim(train)</pre>
```

```
## [1] 297 108
```

```
# fit a linear model
model <- lm(V104 ~ ., data = train)
# View model summary
summary(model)</pre>
```

```
##
## Call:
## lm(formula = V104 ~ ., data = train)
## Residuals:
##
      Min
               1Q Median
                               3Q
                                      Max
## -820.94 -43.35
                     0.00
                            43.90 669.36
##
## Coefficients: (34 not defined because of singularities)
##
                         Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                        2.578e+04 1.462e+05
                                              0.176 0.860165
## `START YEAR`
                       -4.367e+02 2.087e+03 -0.209 0.834401
## `START QUARTER`
                       -4.226e+02 6.051e+02 -0.698 0.485671
## `COMPLETION YEAR`
                        1.232e+02 2.128e+01 5.786 2.42e-08 ***
## `COMPLETION QUARTER` 5.869e+01 1.034e+01 5.678 4.22e-08 ***
                       -4.562e+00 2.606e+00 -1.751 0.081342 .
## V1
## V2
                        5.990e-02 2.408e-02 2.487 0.013598 *
                       -2.587e-01 7.406e-02 -3.493 0.000576 ***
## V3
## V4
                        3.345e-02 4.508e-02 0.742 0.458875
## V5
                       -9.879e-01 3.779e-01 -2.615 0.009545 **
## V6
                        1.562e-01 6.848e-02
                                               2.280 0.023549 *
## V7
                                                 NA
                               NA
                                          NA
                                                          NA
                        1.215e+00 1.782e-02 68.179 < 2e-16 ***
## V8
                       -5.509e-02 2.873e-01 -0.192 0.848109
## V9
## V10
                       -3.010e+01 4.899e+02 -0.061 0.951071
## V11
                       8.493e+00 1.039e+02 0.082 0.934945
## V12
                       -7.456e+01 1.571e+02 -0.475 0.635544
## V13
                       -1.829e-02 5.873e-02 -0.311 0.755787
## V14
                       -1.254e-02 8.017e-01 -0.016 0.987532
## V15
                       -1.625e+01 6.205e+01 -0.262 0.793678
## V16
                        1.015e+00 5.081e+00
                                             0.200 0.841843
## V17
                       3.148e-02 9.786e-02 0.322 0.747982
## V18
                       -3.970e+01 3.335e+02 -0.119 0.905356
## V19
                        5.095e-01 1.445e+00
                                            0.353 0.724722
## V20
                       -6.175e-01 1.676e+00 -0.369 0.712838
## V21
                        3.180e-03 1.090e-01
                                             0.029 0.976742
## V22
                       -1.653e-01 4.774e-01 -0.346 0.729550
## V23
                        7.088e+01 1.833e+02
                                               0.387 0.699299
## V24
                       -2.417e+00 2.276e+02 -0.011 0.991536
## V25
                        5.725e-02 3.971e-01
                                               0.144 0.885498
## V26
                       -4.101e-02 6.641e-02 -0.617 0.537538
## V27
                       -2.365e-04 7.463e-03 -0.032 0.974753
                        1.235e-02 3.584e-01 0.034 0.972539
## V28
## V29
                        4.256e+01 3.003e+02
                                              0.142 0.887449
## V30
                        1.323e+01 1.005e+02
                                              0.132 0.895418
## V31
                       -8.578e+00 9.098e+02 -0.009 0.992486
## V32
                        1.780e-02 3.023e-02
                                               0.589 0.556453
## V33
                        1.269e-02 5.074e-01
                                             0.025 0.980066
## V34
                       -1.865e+01 8.794e+01 -0.212 0.832227
## V35
                        6.676e-01 3.884e+00
                                               0.172 0.863695
## V36
                       -5.314e-03 6.002e-02 -0.089 0.929532
## V37
                        1.362e+02 1.766e+02
                                               0.771 0.441285
## V38
                       1.038e+00 4.700e+00
                                               0.221 0.825445
## V39
                       -2.341e-01 1.860e+00 -0.126 0.899976
## V40
                       -9.525e-02 3.199e-01 -0.298 0.766214
```

· V41	2.407e-02	6.021e-01	0.040	0.968149
· V42	8.104e+01	2.490e+02	0.325	0.745127
V43	2.754e+01	4.186e+02	0.066	0.947600
: V44	-2.518e-02	7.050e-01	-0.036	0.971535
· V45				0.611705
				0.985804
: V60	1.723e-02	1.242e-01	0.139	0.889820
V61	-3.082e+00	1.946e+02	-0.016	0.987379
· V62	-8.676e+01	5.612e+02	-0.155	0.877271
· V63	7.369e-02	4.595e-01	0.160	0.872738
V64	-4.617e-02	6.933e-02	-0.666	0.506135
· V65	-1.319e-03	2.020e-03	-0.653	0.514391
· V66	-1.106e-01	4.141e-01	-0.267	0.789640
V67	-1.711e+01	1.832e+02	-0.093	0.925668
V68	5.297e+01	2.839e+02	0.187	0.852180
· V69	6.910e+01	1.796e+02	0.385	0.700824
				0.447439
	NA	NA	NA	NA
				NA NA
				NA
				NA NA
				NA NA
				NA NA
				NA
				NA NA
				NA
				NA
	NA	NA		NA
				NA
	NA	NA	NA	NA
V84	NA	NA	NA	NA
V85	NA	NA	NA	NA
· V86	NA	NA	NA	NA
· V87	NA	NA	NA	NA
: V88	NA	NA	NA	NA
	NA	NA	NA	NA
: V89	NA	NA	NA	NA
: V89 : V90	147 (
	NA	NA	NA	NA
: V90 : V91	NA			
: V90 : V91 : V92	NA NA	NA	NA	NA
: V90 : V91 : V92 : V93	NA NA NA	NA NA	NA NA	NA NA
: V90 : V91 : V92 : V93 : V94	NA NA NA	NA NA NA	NA NA NA	NA NA NA
: V90 : V91 : V92 : V93	NA NA NA	NA NA	NA NA	NA NA
*****	# V41 # V42 # V43 # V44 # V45 # V46 # V47 # V48 # V50 # V51 # V52 # V55 # V56 # V56 # V61 # V62 # V63 # V64 # V65 # V66 # V67 # V70 # V71 # V72 # V73 # V74 # V75 # V76 # V77 # V78 # V79 # V88 # V88 # V88	# V42	# V42	# V42

```
## V97
                                           NA
                                NΑ
                                                   NΑ
                                                            NA
## V98
                                NA
                                           NA
                                                   NΑ
                                                            NA
## V99
                                NA
                                           NA
                                                   NA
                                                            NA
## V100
                                           NA
                                                            NA
                                NA
                                                   NΑ
## V101
                                           NA
                                                   NA
                                                            NA
                                NA
## V102
                                NA
                                           NA
                                                   NA
                                                            NA
## V103
                                NA
                                           NA
                                                   NA
                                                            NA
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 147.2 on 223 degrees of freedom
## Multiple R-squared: 0.9892, Adjusted R-squared: 0.9856
## F-statistic: 278.6 on 73 and 223 DF, p-value: < 2.2e-16
```

It can be seen from the results of the model that the variables "COMPLETION YEAR", "COMPLETION QUARTER", "V1", "V2", "V3", "V6", "V8" are relatively significant, because the p-values of these variables are less than 0.05, indicating that they have a significant linear correlation with "V104".

"34 not defined because of singularities" means that the 34 coefficients cannot be estimated due to multicollinearity of the data or other reasons.

Multiple R-squared: 0.9892, Adjusted R-squared: 0.9856 Indicates that the model fits well.

C.

```
# Fit a linear regression model using backwards selection and stepwise selection and calculat
e the computation time of two models
backwards_model_time <- system.time({
   backwards_model <- stepAIC(model, direction = "backward")
})</pre>
```

```
## Start: AIC=3027.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
##
       V1 + V2 + V3 + V4 + V5 + V6 + V7 + V8 + V9 + V10 + V11 +
##
       V12 + V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 +
##
       V22 + V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V31 +
       V32 + V33 + V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 +
##
       V42 + V43 + V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 +
##
       V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 +
##
       V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70 + V71 +
##
##
       V72 + V73 + V74 + V75 + V76 + V77 + V78 + V79 + V80 + V81 +
##
       V82 + V83 + V84 + V85 + V86 + V87 + V88 + V89 + V90 + V91 +
       V92 + V93 + V94 + V95 + V96 + V97 + V98 + V99 + V100 + V101 +
##
##
       V102 + V103
##
##
## Step: AIC=3027.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
       V1 + V2 + V3 + V4 + V5 + V6 + V7 + V8 + V9 + V10 + V11 +
##
       V12 + V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 +
##
       V22 + V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V31 +
##
       V32 + V33 + V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 +
##
       V42 + V43 + V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 +
##
       V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 +
##
##
       V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70 + V71 +
       V72 + V73 + V74 + V75 + V76 + V77 + V78 + V79 + V80 + V81 +
##
       V82 + V83 + V84 + V85 + V86 + V87 + V88 + V89 + V90 + V91 +
##
       V92 + V93 + V94 + V95 + V96 + V97 + V98 + V99 + V100 + V101 +
##
##
       V102
##
##
## Step: AIC=3027.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
##
       V1 + V2 + V3 + V4 + V5 + V6 + V7 + V8 + V9 + V10 + V11 +
       V12 + V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 +
##
##
       V22 + V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V31 +
##
       V32 + V33 + V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 +
       V42 + V43 + V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 +
##
##
       V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 +
       V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70 + V71 +
##
       V72 + V73 + V74 + V75 + V76 + V77 + V78 + V79 + V80 + V81 +
##
       V82 + V83 + V84 + V85 + V86 + V87 + V88 + V89 + V90 + V91 +
##
##
       V92 + V93 + V94 + V95 + V96 + V97 + V98 + V99 + V100 + V101
##
##
## Step: AIC=3027.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
       V1 + V2 + V3 + V4 + V5 + V6 + V7 + V8 + V9 + V10 + V11 +
##
       V12 + V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 +
##
##
       V22 + V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V31 +
##
       V32 + V33 + V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 +
       V42 + V43 + V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 +
##
##
       V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 +
       V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70 + V71 +
##
##
       V72 + V73 + V74 + V75 + V76 + V77 + V78 + V79 + V80 + V81 +
##
       V82 + V83 + V84 + V85 + V86 + V87 + V88 + V89 + V90 + V91 +
```

```
##
       V92 + V93 + V94 + V95 + V96 + V97 + V98 + V99 + V100
##
##
## Step: AIC=3027.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
##
       V1 + V2 + V3 + V4 + V5 + V6 + V7 + V8 + V9 + V10 + V11 +
##
       V12 + V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 +
##
       V22 + V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V31 +
       V32 + V33 + V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 +
##
       V42 + V43 + V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 +
##
##
       V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 +
       V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70 + V71 +
##
##
       V72 + V73 + V74 + V75 + V76 + V77 + V78 + V79 + V80 + V81 +
       V82 + V83 + V84 + V85 + V86 + V87 + V88 + V89 + V90 + V91 +
##
       V92 + V93 + V94 + V95 + V96 + V97 + V98 + V99
##
##
##
## Step: AIC=3027.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
##
       V1 + V2 + V3 + V4 + V5 + V6 + V7 + V8 + V9 + V10 + V11 +
       V12 + V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 +
##
       V22 + V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V31 +
##
       V32 + V33 + V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 +
##
##
       V42 + V43 + V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 +
       V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 +
##
       V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70 + V71 +
##
       V72 + V73 + V74 + V75 + V76 + V77 + V78 + V79 + V80 + V81 +
##
       V82 + V83 + V84 + V85 + V86 + V87 + V88 + V89 + V90 + V91 +
##
       V92 + V93 + V94 + V95 + V96 + V97 + V98
##
##
##
## Step: AIC=3027.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
       V1 + V2 + V3 + V4 + V5 + V6 + V7 + V8 + V9 + V10 + V11 +
##
##
       V12 + V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 +
##
       V22 + V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V31 +
       V32 + V33 + V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 +
##
##
       V42 + V43 + V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 +
       V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 +
##
       V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70 + V71 +
##
       V72 + V73 + V74 + V75 + V76 + V77 + V78 + V79 + V80 + V81 +
##
       V82 + V83 + V84 + V85 + V86 + V87 + V88 + V89 + V90 + V91 +
##
       V92 + V93 + V94 + V95 + V96 + V97
##
##
##
## Step: AIC=3027.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
##
       V1 + V2 + V3 + V4 + V5 + V6 + V7 + V8 + V9 + V10 + V11 +
##
       V12 + V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 +
       V22 + V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V31 +
##
       V32 + V33 + V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 +
##
       V42 + V43 + V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 +
##
       V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 +
##
       V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70 + V71 +
##
##
       V72 + V73 + V74 + V75 + V76 + V77 + V78 + V79 + V80 + V81 +
       V82 + V83 + V84 + V85 + V86 + V87 + V88 + V89 + V90 + V91 +
##
```

```
##
       V92 + V93 + V94 + V95 + V96
##
##
## Step: AIC=3027.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
##
       V1 + V2 + V3 + V4 + V5 + V6 + V7 + V8 + V9 + V10 + V11 +
##
       V12 + V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 +
##
       V22 + V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V31 +
       V32 + V33 + V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 +
##
       V42 + V43 + V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 +
##
##
       V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 +
       V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70 + V71 +
##
##
       V72 + V73 + V74 + V75 + V76 + V77 + V78 + V79 + V80 + V81 +
       V82 + V83 + V84 + V85 + V86 + V87 + V88 + V89 + V90 + V91 +
##
       V92 + V93 + V94 + V95
##
##
##
## Step: AIC=3027.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
##
       V1 + V2 + V3 + V4 + V5 + V6 + V7 + V8 + V9 + V10 + V11 +
       V12 + V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 +
##
       V22 + V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V31 +
##
       V32 + V33 + V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 +
##
       V42 + V43 + V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 +
##
       V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 +
##
       V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70 + V71 +
##
       V72 + V73 + V74 + V75 + V76 + V77 + V78 + V79 + V80 + V81 +
##
       V82 + V83 + V84 + V85 + V86 + V87 + V88 + V89 + V90 + V91 +
##
       V92 + V93 + V94
##
##
##
## Step: AIC=3027.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
       V1 + V2 + V3 + V4 + V5 + V6 + V7 + V8 + V9 + V10 + V11 +
##
##
       V12 + V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 +
##
       V22 + V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V31 +
       V32 + V33 + V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 +
##
##
       V42 + V43 + V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 +
       V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 +
##
       V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70 + V71 +
##
       V72 + V73 + V74 + V75 + V76 + V77 + V78 + V79 + V80 + V81 +
##
       V82 + V83 + V84 + V85 + V86 + V87 + V88 + V89 + V90 + V91 +
##
##
       V92 + V93
##
##
## Step: AIC=3027.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
##
       V1 + V2 + V3 + V4 + V5 + V6 + V7 + V8 + V9 + V10 + V11 +
##
       V12 + V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 +
       V22 + V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V31 +
##
       V32 + V33 + V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 +
##
       V42 + V43 + V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 +
##
       V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 +
##
       V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70 + V71 +
##
##
       V72 + V73 + V74 + V75 + V76 + V77 + V78 + V79 + V80 + V81 +
       V82 + V83 + V84 + V85 + V86 + V87 + V88 + V89 + V90 + V91 +
##
```

```
##
       V92
##
##
## Step: AIC=3027.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
##
       V1 + V2 + V3 + V4 + V5 + V6 + V7 + V8 + V9 + V10 + V11 +
##
       V12 + V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 +
##
       V22 + V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V31 +
       V32 + V33 + V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 +
##
       V42 + V43 + V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 +
##
##
       V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 +
       V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70 + V71 +
##
##
       V72 + V73 + V74 + V75 + V76 + V77 + V78 + V79 + V80 + V81 +
       V82 + V83 + V84 + V85 + V86 + V87 + V88 + V89 + V90 + V91
##
##
##
## Step: AIC=3027.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
##
       V1 + V2 + V3 + V4 + V5 + V6 + V7 + V8 + V9 + V10 + V11 +
##
       V12 + V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 +
       V22 + V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V31 +
##
##
       V32 + V33 + V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 +
       V42 + V43 + V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 +
##
##
       V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 +
       V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70 + V71 +
##
##
       V72 + V73 + V74 + V75 + V76 + V77 + V78 + V79 + V80 + V81 +
       V82 + V83 + V84 + V85 + V86 + V87 + V88 + V89 + V90
##
##
##
## Step: AIC=3027.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
##
       V1 + V2 + V3 + V4 + V5 + V6 + V7 + V8 + V9 + V10 + V11 +
##
       V12 + V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 +
       V22 + V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V31 +
##
##
       V32 + V33 + V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 +
##
       V42 + V43 + V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 +
       V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 +
##
##
       V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70 + V71 +
       V72 + V73 + V74 + V75 + V76 + V77 + V78 + V79 + V80 + V81 +
##
       V82 + V83 + V84 + V85 + V86 + V87 + V88 + V89
##
##
##
## Step: AIC=3027.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
##
       V1 + V2 + V3 + V4 + V5 + V6 + V7 + V8 + V9 + V10 + V11 +
       V12 + V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 +
##
       V22 + V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V31 +
##
##
       V32 + V33 + V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 +
##
       V42 + V43 + V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 +
       V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 +
##
       V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70 + V71 +
##
       V72 + V73 + V74 + V75 + V76 + V77 + V78 + V79 + V80 + V81 +
##
       V82 + V83 + V84 + V85 + V86 + V87 + V88
##
##
##
## Step: AIC=3027.92
```

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## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
       V1 + V2 + V3 + V4 + V5 + V6 + V7 + V8 + V9 + V10 + V11 +
##
       V12 + V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 +
##
       V22 + V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V31 +
##
       V32 + V33 + V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 +
##
##
       V42 + V43 + V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 +
##
       V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 +
##
       V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70 + V71 +
       V72 + V73 + V74 + V75 + V76 + V77 + V78 + V79 + V80 + V81 +
##
       V82 + V83 + V84 + V85 + V86 + V87
##
##
##
## Step: AIC=3027.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
       V1 + V2 + V3 + V4 + V5 + V6 + V7 + V8 + V9 + V10 + V11 +
##
##
       V12 + V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 +
##
       V22 + V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V31 +
       V32 + V33 + V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 +
##
       V42 + V43 + V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 +
##
##
       V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 +
       V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70 + V71 +
##
       V72 + V73 + V74 + V75 + V76 + V77 + V78 + V79 + V80 + V81 +
##
       V82 + V83 + V84 + V85 + V86
##
##
##
## Step: AIC=3027.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
       V1 + V2 + V3 + V4 + V5 + V6 + V7 + V8 + V9 + V10 + V11 +
##
       V12 + V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 +
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       V22 + V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V31 +
##
       V32 + V33 + V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 +
##
##
       V42 + V43 + V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 +
##
       V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 +
       V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70 + V71 +
##
       V72 + V73 + V74 + V75 + V76 + V77 + V78 + V79 + V80 + V81 +
##
       V82 + V83 + V84 + V85
##
##
##
## Step: AIC=3027.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
       V1 + V2 + V3 + V4 + V5 + V6 + V7 + V8 + V9 + V10 + V11 +
##
       V12 + V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 +
##
       V22 + V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V31 +
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       V32 + V33 + V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 +
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       V42 + V43 + V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 +
##
       V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 +
##
       V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70 + V71 +
##
##
       V72 + V73 + V74 + V75 + V76 + V77 + V78 + V79 + V80 + V81 +
       V82 + V83 + V84
##
##
##
## Step: AIC=3027.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
       V1 + V2 + V3 + V4 + V5 + V6 + V7 + V8 + V9 + V10 + V11 +
##
##
       V12 + V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 +
       V22 + V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V31 +
##
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V32 + V33 + V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 +
##
       V42 + V43 + V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 +
##
       V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 +
##
       V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70 + V71 +
##
       V72 + V73 + V74 + V75 + V76 + V77 + V78 + V79 + V80 + V81 +
##
##
       V82 + V83
##
##
## Step: AIC=3027.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
##
       V1 + V2 + V3 + V4 + V5 + V6 + V7 + V8 + V9 + V10 + V11 +
       V12 + V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 +
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       V22 + V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V31 +
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       V32 + V33 + V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 +
       V42 + V43 + V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 +
##
##
       V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 +
       V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70 + V71 +
##
##
       V72 + V73 + V74 + V75 + V76 + V77 + V78 + V79 + V80 + V81 +
##
       V82
##
##
## Step: AIC=3027.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
##
       V1 + V2 + V3 + V4 + V5 + V6 + V7 + V8 + V9 + V10 + V11 +
       V12 + V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 +
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       V22 + V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V31 +
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       V32 + V33 + V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 +
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       V42 + V43 + V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 +
##
       V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 +
##
       V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70 + V71 +
##
       V72 + V73 + V74 + V75 + V76 + V77 + V78 + V79 + V80 + V81
##
##
##
## Step: AIC=3027.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
##
       V1 + V2 + V3 + V4 + V5 + V6 + V7 + V8 + V9 + V10 + V11 +
       V12 + V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 +
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##
       V22 + V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V31 +
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       V32 + V33 + V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 +
       V42 + V43 + V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 +
##
       V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 +
##
       V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70 + V71 +
##
##
       V72 + V73 + V74 + V75 + V76 + V77 + V78 + V79 + V80
##
##
## Step: AIC=3027.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
##
       V1 + V2 + V3 + V4 + V5 + V6 + V7 + V8 + V9 + V10 + V11 +
##
       V12 + V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 +
       V22 + V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V31 +
##
       V32 + V33 + V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 +
##
       V42 + V43 + V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 +
##
       V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 +
##
       V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70 + V71 +
##
##
       V72 + V73 + V74 + V75 + V76 + V77 + V78 + V79
##
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##
## Step: AIC=3027.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
       V1 + V2 + V3 + V4 + V5 + V6 + V7 + V8 + V9 + V10 + V11 +
##
       V12 + V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 +
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##
       V22 + V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V31 +
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       V32 + V33 + V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 +
##
       V42 + V43 + V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 +
       V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 +
##
       V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70 + V71 +
##
       V72 + V73 + V74 + V75 + V76 + V77 + V78
##
##
##
## Step: AIC=3027.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
##
       V1 + V2 + V3 + V4 + V5 + V6 + V7 + V8 + V9 + V10 + V11 +
##
       V12 + V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 +
       V22 + V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V31 +
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       V32 + V33 + V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 +
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       V42 + V43 + V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 +
       V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 +
##
       V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70 + V71 +
##
       V72 + V73 + V74 + V75 + V76 + V77
##
##
##
## Step: AIC=3027.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
       V1 + V2 + V3 + V4 + V5 + V6 + V7 + V8 + V9 + V10 + V11 +
##
       V12 + V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 +
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       V22 + V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V31 +
##
       V32 + V33 + V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 +
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       V42 + V43 + V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 +
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##
       V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 +
       V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70 + V71 +
##
       V72 + V73 + V74 + V75 + V76
##
##
##
## Step: AIC=3027.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
       V1 + V2 + V3 + V4 + V5 + V6 + V7 + V8 + V9 + V10 + V11 +
##
       V12 + V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 +
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       V22 + V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V31 +
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       V32 + V33 + V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 +
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       V42 + V43 + V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 +
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       V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 +
       V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70 + V71 +
##
       V72 + V73 + V74 + V75
##
##
##
## Step: AIC=3027.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
       V1 + V2 + V3 + V4 + V5 + V6 + V7 + V8 + V9 + V10 + V11 +
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       V12 + V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 +
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       V22 + V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V31 +
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       V32 + V33 + V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 +
       V42 + V43 + V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 +
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V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 +
##
       V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70 + V71 +
##
       V72 + V73 + V74
##
##
##
## Step: AIC=3027.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
##
       V1 + V2 + V3 + V4 + V5 + V6 + V7 + V8 + V9 + V10 + V11 +
       V12 + V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 +
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##
       V22 + V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V31 +
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       V32 + V33 + V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 +
       V42 + V43 + V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 +
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       V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 +
       V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70 + V71 +
##
       V72 + V73
##
##
##
## Step: AIC=3027.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
##
       V1 + V2 + V3 + V4 + V5 + V6 + V7 + V8 + V9 + V10 + V11 +
       V12 + V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 +
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       V22 + V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V31 +
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       V32 + V33 + V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 +
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       V42 + V43 + V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 +
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       V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 +
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       V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70 + V71 +
##
##
       V72
##
##
## Step: AIC=3027.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
##
       V1 + V2 + V3 + V4 + V5 + V6 + V7 + V8 + V9 + V10 + V11 +
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       V12 + V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 +
       V22 + V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V31 +
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##
       V32 + V33 + V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 +
       V42 + V43 + V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 +
##
       V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 +
##
##
       V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70 + V71
##
##
## Step: AIC=3027.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
       V1 + V2 + V3 + V4 + V5 + V6 + V7 + V8 + V9 + V10 + V11 +
##
       V12 + V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 +
##
       V22 + V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V31 +
##
       V32 + V33 + V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 +
##
       V42 + V43 + V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 +
##
       V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 +
##
       V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70
##
##
##
## Step: AIC=3027.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
       V1 + V2 + V3 + V4 + V5 + V6 + V8 + V9 + V10 + V11 + V12 +
##
##
       V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 + V22 +
       V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V31 + V32 +
##
```

```
##
       V33 + V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 + V42 +
       V43 + V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 + V52 +
##
       V53 + V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 + V62 +
##
       V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70
##
##
##
                           Df Sum of Sq
                                                       AIC
                                                RSS
## - V31
                            1
                                       2
                                           4830338 3025.9
## - V24
                            1
                                       2
                                           4830338 3025.9
## - V14
                                           4830341 3025.9
                            1
                                       5
## - V61
                            1
                                       5
                                           4830341 3025.9
## - V46
                                       7
                            1
                                           4830343 3025.9
## - V33
                            1
                                      14
                                           4830350 3025.9
## - V21
                            1
                                      18
                                           4830354 3025.9
## - V27
                            1
                                      22
                                           4830358 3025.9
## - V28
                            1
                                      26
                                           4830362 3025.9
## - V44
                            1
                                      28
                                           4830364 3025.9
## - V41
                            1
                                      35
                                           4830371 3025.9
## - V10
                            1
                                      82
                                           4830418 3025.9
## - V43
                            1
                                      94
                                           4830430 3025.9
## - V11
                            1
                                     145
                                           4830481 3025.9
## - V36
                            1
                                     170
                                           4830506 3025.9
## - V67
                            1
                                     189
                                           4830525 3025.9
## - V54
                            1
                                     230
                                           4830566 3025.9
## - V18
                            1
                                     307
                                           4830643 3025.9
## - V39
                            1
                                           4830679 3025.9
                                     343
## - V49
                            1
                                     354
                                           4830690 3025.9
## - V30
                            1
                                     375
                                           4830711 3025.9
## - V60
                            1
                                           4830753 3025.9
                                     417
## - V29
                            1
                                     435
                                           4830771 3025.9
## - V25
                            1
                                     450
                                           4830786 3025.9
## - V62
                            1
                                     518
                                           4830854 3026.0
## - V63
                            1
                                     557
                                           4830893 3026.0
## - V35
                            1
                                     640
                                           4830976 3026.0
## - V56
                            1
                                     712
                                           4831048 3026.0
## - V68
                            1
                                     754
                                           4831090 3026.0
## - V57
                            1
                                     778
                                           4831114 3026.0
## - V52
                            1
                                     784
                                           4831120 3026.0
## - V9
                            1
                                     796
                                           4831133 3026.0
## - V16
                            1
                                     864
                                           4831200 3026.0
## - `START YEAR`
                            1
                                     949
                                           4831285 3026.0
## - V34
                            1
                                     974
                                           4831310 3026.0
## - V38
                            1
                                    1056
                                           4831392 3026.0
## - V51
                            1
                                    1086
                                           4831422 3026.0
## - V55
                            1
                                    1106
                                           4831442 3026.0
## - V58
                            1
                                    1253
                                           4831589 3026.0
## - V15
                            1
                                    1485
                                           4831821 3026.0
## - V66
                            1
                                    1545
                                           4831881 3026.0
## - V48
                            1
                                           4831888 3026.0
                                    1552
## - V59
                            1
                                    1842
                                           4832178 3026.0
## - V50
                            1
                                    1865
                                           4832201 3026.0
## - V40
                            1
                                    1920
                                           4832256 3026.0
## - V13
                            1
                                    2100
                                           4832436 3026.0
## - V17
                            1
                                           4832578 3026.1
                                    2242
## - V42
                            1
                                    2295
                                           4832631 3026.1
## - V53
                            1
                                    2561
                                           4832897 3026.1
## - V22
                            1
                                    2596
                                           4832932 3026.1
```

```
## - V19
                                   2693
                                          4833029 3026.1
                            1
## - V20
                            1
                                   2942
                                          4833278 3026.1
## - V69
                            1
                                   3206
                                          4833542 3026.1
## - V23
                            1
                                   3240
                                          4833576 3026.1
## - V12
                            1
                                   4879
                                          4835215 3026.2
## - V45
                            1
                                   5598
                                          4835934 3026.3
## - V32
                            1
                                   7515
                                          4837851 3026.4
## - V26
                            1
                                   8259
                                          4838595 3026.4
## - V65
                                   9238
                                          4839574 3026.5
                            1
## - V64
                            1
                                   9606
                                          4839942 3026.5
## - V47
                            1
                                  10089
                                          4840425 3026.5
## - `START QUARTER`
                            1
                                  10564
                                          4840901 3026.6
## - V4
                            1
                                  11925
                                          4842261 3026.7
## - V70
                            1
                                  12545
                                          4842881 3026.7
## - V37
                            1
                                  12889
                                          4843225 3026.7
## <none>
                                          4830336 3027.9
## - V1
                            1
                                  66403
                                          4896739 3030.0
## - V6
                            1
                                 112608
                                          4942944 3032.8
## - V2
                            1
                                 134027
                                          4964363 3034.0
## - V5
                            1
                                 148065
                                          4978401 3034.9
## - V3
                            1
                                 264264
                                          5094600 3041.7
## - `COMPLETION QUARTER`
                            1
                                 698315
                                          5528651 3066.0
## - `COMPLETION YEAR`
                                 725251
                            1
                                          5555587 3067.5
## - V8
                            1 100688495 105518831 3941.9
##
## Step: AIC=3025.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
       V1 + V2 + V3 + V4 + V5 + V6 + V8 + V9 + V10 + V11 + V12 +
##
       V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 + V22 +
##
       V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V32 + V33 +
##
       V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 + V42 + V43 +
##
       V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 + V52 + V53 +
##
##
       V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 + V62 + V63 +
       V64 + V65 + V66 + V67 + V68 + V69 + V70
##
##
##
                           Df Sum of Sq
                                               RSS
                                                      AIC
## - V24
                            1
                                      1
                                          4830339 3023.9
## - V61
                            1
                                     10
                                          4830348 3023.9
## - V33
                            1
                                     22
                                          4830360 3023.9
## - V46
                            1
                                          4830384 3023.9
                                     46
## - V21
                                          4830407 3023.9
                            1
                                     69
## - V43
                            1
                                    119
                                           4830457 3023.9
## - V41
                            1
                                          4830505 3023.9
                                    167
## - V11
                            1
                                    174
                                           4830512 3023.9
## - V67
                            1
                                    199
                                           4830537 3023.9
## - V36
                            1
                                    214
                                           4830552 3023.9
## - V54
                            1
                                    235
                                           4830573 3023.9
## - V28
                            1
                                          4830641 3023.9
                                    303
## - V18
                            1
                                    325
                                          4830663 3023.9
## - V30
                            1
                                    374
                                           4830712 3023.9
## - V60
                            1
                                    415
                                          4830753 3023.9
## - V29
                            1
                                    436
                                          4830774 3023.9
## - V25
                            1
                                    469
                                          4830807 3023.9
## - V49
                            1
                                    513
                                          4830851 3023.9
## - V14
                            1
                                    595
                                          4830933 3024.0
## - V10
                            1
                                    647
                                          4830985 3024.0
```

```
## - V44
                                    705
                            1
                                           4831043 3024.0
## - V35
                            1
                                    725
                                           4831063 3024.0
## - V39
                            1
                                    784
                                           4831122 3024.0
## - V52
                            1
                                           4831152 3024.0
                                    814
## - V9
                            1
                                    835
                                           4831173 3024.0
## - V27
                            1
                                    942
                                           4831280 3024.0
## - V57
                            1
                                   1156
                                           4831494 3024.0
## - V68
                            1
                                   1191
                                           4831529 3024.0
## - V62
                                   1300
                                           4831638 3024.0
                            1
## - V16
                            1
                                   1402
                                           4831740 3024.0
## - V34
                            1
                                   1404
                                           4831742 3024.0
## - V58
                                           4831839 3024.0
                            1
                                   1501
## - V56
                            1
                                   1545
                                           4831883 3024.0
## - V15
                            1
                                   1590
                                           4831928 3024.0
## - V38
                                   2087
                                           4832425 3024.0
                            1
## - V55
                            1
                                   2097
                                           4832435 3024.0
## - V66
                            1
                                   2228
                                           4832566 3024.1
## - V50
                            1
                                   2229
                                           4832567 3024.1
## - V17
                            1
                                   2555
                                           4832893 3024.1
## - V53
                            1
                                   2637
                                           4832975 3024.1
## - V40
                            1
                                   2672
                                           4833010 3024.1
## - V19
                            1
                                   2758
                                           4833096 3024.1
## - `START YEAR`
                            1
                                   3024
                                           4833362 3024.1
## - V22
                            1
                                   3448
                                           4833786 3024.1
## - V20
                                           4834521 3024.2
                            1
                                   4183
## - V42
                                           4834912 3024.2
                            1
                                   4574
## - V48
                                           4835197 3024.2
                            1
                                   4859
## - V13
                            1
                                   6076
                                           4836413 3024.3
## - V45
                            1
                                           4836564 3024.3
                                   6226
## - V63
                                   6783
                                           4837121 3024.3
                            1
## - V69
                            1
                                   7346
                                           4837684 3024.4
## - V51
                            1
                                   7390
                                           4837728 3024.4
## - V23
                            1
                                   7545
                                           4837883 3024.4
## - V12
                                   7909
                                           4838247 3024.4
                            1
## - V59
                            1
                                   8138
                                           4838476 3024.4
## - V26
                            1
                                   8358
                                           4838696 3024.4
## - V32
                                   9895
                                           4840233 3024.5
                            1
## - V64
                            1
                                   9922
                                           4840260 3024.5
## - V47
                            1
                                  10211
                                           4840549 3024.5
## - V4
                                  11924
                                           4842261 3024.7
                            1
## - V65
                                           4842572 3024.7
                            1
                                  12234
## - `START QUARTER`
                            1
                                  12672
                                           4843010 3024.7
## - V70
                            1
                                  22222
                                           4852560 3025.3
## - V37
                            1
                                  22523
                                           4852861 3025.3
## <none>
                                           4830338 3025.9
## - V1
                                  66427
                            1
                                           4896765 3028.0
## - V6
                            1
                                 113040
                                           4943377 3030.8
## - V2
                            1
                                 134137
                                           4964475 3032.1
## - V5
                            1
                                 148331
                                           4978669 3032.9
## - V3
                            1
                                 264506
                                           5094844 3039.8
## - `COMPLETION QUARTER`
                            1
                                 698692
                                           5529030 3064.0
## - `COMPLETION YEAR`
                            1
                                           5558905 3065.6
                                 728567
## - V8
                            1 100696138 105526476 3939.9
##
## Step: AIC=3023.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
```

```
##
       V1 + V2 + V3 + V4 + V5 + V6 + V8 + V9 + V10 + V11 + V12 +
       V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 + V22 +
##
       V23 + V25 + V26 + V27 + V28 + V29 + V30 + V32 + V33 + V34 +
##
       V35 + V36 + V37 + V38 + V39 + V40 + V41 + V42 + V43 + V44 +
##
       V45 + V46 + V47 + V48 + V49 + V50 + V51 + V52 + V53 + V54 +
##
##
       V55 + V56 + V57 + V58 + V59 + V60 + V61 + V62 + V63 + V64 +
       V65 + V66 + V67 + V68 + V69 + V70
##
##
                           Df Sum of Sq
##
                                                RSS
                                                       AIC
## - V61
                            1
                                       8
                                           4830348 3021.9
## - V33
                            1
                                      24
                                           4830363 3021.9
## - V46
                            1
                                      48
                                           4830388 3021.9
## - V21
                            1
                                      68
                                           4830408 3021.9
## - V41
                            1
                                           4830506 3021.9
                                     167
## - V11
                            1
                                           4830512 3021.9
                                     173
## - V28
                            1
                                     304
                                           4830643 3021.9
## - V54
                            1
                                     323
                                           4830663 3021.9
## - V60
                            1
                                           4830772 3021.9
                                     433
## - V29
                            1
                                     454
                                           4830793 3021.9
## - V67
                            1
                                     468
                                           4830807 3021.9
## - V36
                            1
                                     482
                                           4830821 3021.9
## - V43
                            1
                                     523
                                           4830862 3022.0
## - V14
                            1
                                           4830995 3022.0
                                     656
## - V10
                            1
                                     658
                                           4830998 3022.0
## - V25
                                           4831080 3022.0
                            1
                                     741
## - V30
                            1
                                     782
                                           4831122 3022.0
## - V49
                            1
                                     803
                                           4831143 3022.0
## - V44
                            1
                                           4831149 3022.0
                                     810
## - V27
                            1
                                           4831509 3022.0
                                    1170
## - V35
                            1
                                    1346
                                           4831686 3022.0
## - V16
                            1
                                    1402
                                           4831741 3022.0
## - V39
                            1
                                    1551
                                           4831891 3022.0
## - V68
                            1
                                           4831988 3022.0
                                    1649
## - V15
                            1
                                    1683
                                           4832022 3022.0
## - V18
                            1
                                    2019
                                           4832358 3022.0
## - V34
                            1
                                    2039
                                           4832378 3022.0
## - V52
                            1
                                    2155
                                           4832495 3022.1
## - V9
                            1
                                    2694
                                           4833033 3022.1
## - V50
                            1
                                           4833804 3022.1
                                    3464
## - V62
                            1
                                           4834175 3022.2
                                    3836
## - V40
                            1
                                    4485
                                           4834824 3022.2
## - V56
                            1
                                    4498
                                           4834837 3022.2
## - V55
                            1
                                    4711
                                           4835050 3022.2
## - V42
                            1
                                    4748
                                           4835087 3022.2
## - V57
                            1
                                    4849
                                           4835189 3022.2
## - V45
                            1
                                    6664
                                           4837004 3022.3
## - V53
                            1
                                    7174
                                           4837514 3022.4
## - `START YEAR`
                            1
                                    7249
                                           4837588 3022.4
## - V19
                            1
                                    7267
                                           4837606 3022.4
## - V69
                            1
                                    7794
                                           4838133 3022.4
## - V58
                            1
                                    8428
                                           4838767 3022.4
## - V66
                            1
                                    8555
                                           4838894 3022.4
## - V63
                            1
                                           4838911 3022.4
                                    8571
## - V12
                            1
                                    8864
                                           4839204 3022.5
## - V38
                            1
                                    9292
                                           4839632 3022.5
## - V47
                            1
                                   10291
                                           4840630 3022.6
```

```
## - V59
                                  10427
                                          4840766 3022.6
                           1
## - V26
                                          4840777 3022.6
                            1
                                  10438
## - V64
                            1
                                  10564
                                          4840904 3022.6
## - V17
                            1
                                  10972
                                          4841312 3022.6
## - V4
                                  12053
                                          4842392 3022.7
                            1
## - V20
                            1
                                  12911
                                          4843250 3022.7
## - `START QUARTER`
                           1
                                  13621
                                          4843961 3022.8
## - V32
                           1
                                  16276
                                          4846615 3022.9
## - V65
                                  16481
                                          4846821 3022.9
                            1
## - V13
                           1
                                  17072
                                          4847411 3023.0
## - V51
                            1
                                  17762
                                          4848102 3023.0
## - V22
                                  19251
                                          4849590 3023.1
                           1
## - V48
                           1
                                  23121
                                          4853461 3023.3
## - V23
                           1
                                  25108
                                          4855448 3023.5
## - V70
                                  29426
                                          4859766 3023.7
                            1
## <none>
                                          4830339 3023.9
## - V37
                            1
                                  34336
                                          4864675 3024.0
## - V1
                            1
                                  66437
                                          4896777 3026.0
## - V6
                            1
                                 113671
                                          4944011 3028.8
## - V2
                            1
                                 136398
                                          4966737 3030.2
## - V5
                            1
                                 148964
                                          4979304 3030.9
## - V3
                            1
                                 266783
                                          5097122 3037.9
## - `COMPLETION QUARTER`
                                 707628
                                          5537967 3062.5
                           1
## - `COMPLETION YEAR`
                           1
                                 735796
                                          5566135 3064.0
## - V8
                            1 100754067 105584406 3938.0
##
## Step: AIC=3021.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
       V1 + V2 + V3 + V4 + V5 + V6 + V8 + V9 + V10 + V11 + V12 +
##
       V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 + V22 +
##
       V23 + V25 + V26 + V27 + V28 + V29 + V30 + V32 + V33 + V34 +
##
##
       V35 + V36 + V37 + V38 + V39 + V40 + V41 + V42 + V43 + V44 +
##
       V45 + V46 + V47 + V48 + V49 + V50 + V51 + V52 + V53 + V54 +
       V55 + V56 + V57 + V58 + V59 + V60 + V62 + V63 + V64 + V65 +
##
##
       V66 + V67 + V68 + V69 + V70
##
                           Df Sum of Sq
                                              RSS
##
                                                     AIC
## - V33
                            1
                                     16
                                          4830364 3019.9
## - V21
                            1
                                     67
                                          4830415 3019.9
## - V41
                            1
                                    172
                                          4830519 3019.9
## - V46
                           1
                                    218
                                          4830566 3019.9
## - V11
                            1
                                    404
                                          4830752 3019.9
## - V43
                            1
                                    534
                                          4830882 3020.0
## - V67
                            1
                                    578
                                          4830926 3020.0
## - V60
                            1
                                    584
                                          4830932 3020.0
## - V36
                            1
                                    651
                                          4830999 3020.0
## - V14
                            1
                                    842
                                          4831190 3020.0
## - V44
                            1
                                    959
                                          4831307 3020.0
## - V30
                           1
                                   1040
                                          4831387 3020.0
## - V25
                            1
                                   1112
                                          4831460 3020.0
## - V54
                            1
                                   1127
                                          4831475 3020.0
## - V27
                            1
                                   1183
                                          4831531 3020.0
                                   1411
## - V28
                           1
                                          4831759 3020.0
## - V35
                            1
                                          4831867 3020.0
                                   1520
                                   1543
## - V39
                            1
                                          4831891 3020.0
## - V49
                            1
                                   1874
                                          4832222 3020.0
```

```
## - V29
                                   1876
                           1
                                          4832224 3020.0
## - V18
                            1
                                   2045
                                          4832392 3020.0
## - V9
                            1
                                   3126
                                          4833473 3020.1
## - V52
                            1
                                          4833690 3020.1
                                   3342
## - V10
                                          4833884 3020.1
                           1
                                   3536
## - V62
                           1
                                   3829
                                          4834176 3020.2
## - V50
                           1
                                   4304
                                          4834652 3020.2
                                   5007
## - V55
                           1
                                          4835355 3020.2
## - V56
                                          4835577 3020.2
                           1
                                   5229
## - V68
                           1
                                   5423
                                          4835771 3020.3
## - V57
                            1
                                   5625
                                          4835973 3020.3
## - V34
                           1
                                   6204
                                          4836552 3020.3
## - V15
                           1
                                   6341
                                          4836688 3020.3
## - V45
                           1
                                   6676
                                          4837023 3020.3
## - V16
                                   7884
                                          4838232 3020.4
                            1
## - V42
                            1
                                   8268
                                          4838616 3020.4
## - V58
                            1
                                   8745
                                          4839093 3020.5
## - V12
                            1
                                   8881
                                          4839229 3020.5
## - V69
                            1
                                   9080
                                          4839428 3020.5
## - V19
                           1
                                   9085
                                          4839433 3020.5
## - V40
                                          4840037 3020.5
                            1
                                   9689
## - V26
                            1
                                  10461
                                          4840808 3020.6
## - V38
                            1
                                          4840918 3020.6
                                  10571
## - V64
                           1
                                  10707
                                          4841054 3020.6
## - V17
                                          4841467 3020.6
                            1
                                  11119
## - V47
                           1
                                  11514
                                          4841861 3020.6
## - `START YEAR`
                            1
                                  11813
                                          4842160 3020.6
## - V4
                           1
                                  12074
                                          4842422 3020.7
## - V20
                            1
                                          4843251 3020.7
                                  12904
## - V53
                                          4843494 3020.7
                            1
                                  13146
## - `START QUARTER`
                           1
                                  13983
                                          4844331 3020.8
## - V63
                            1
                                  14204
                                          4844552 3020.8
## - V66
                           1
                                  15835
                                          4846182 3020.9
## - V65
                                          4846877 3020.9
                            1
                                  16530
## - V59
                           1
                                  17953
                                          4848301 3021.0
## - V51
                            1
                                  18178
                                          4848526 3021.0
## - V13
                           1
                                  20372
                                          4850720 3021.2
## - V22
                            1
                                  23162
                                          4853510 3021.3
## - V48
                            1
                                  23308
                                          4853655 3021.3
## - V32
                            1
                                  23809
                                          4854157 3021.4
## - V70
                           1
                                  29484
                                          4859832 3021.7
## <none>
                                          4830348 3021.9
## - V23
                            1
                                  44698
                                          4875046 3022.7
## - V37
                            1
                                  51539
                                          4881887 3023.1
## - V1
                           1
                                  66720
                                          4897067 3024.0
## - V6
                            1
                                 114268
                                          4944616 3026.9
## - V2
                            1
                                 138106
                                          4968453 3028.3
## - V5
                                          4980022 3029.0
                            1
                                 149674
## - V3
                            1
                                 268604
                                          5098952 3036.0
## - `COMPLETION QUARTER`
                           1
                                 707650
                                          5537998 3060.5
## - `COMPLETION YEAR`
                                 741742
                                          5572090 3062.3
                           1
## - V8
                            1 100838091 105668439 3936.3
##
## Step: AIC=3019.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
      V1 + V2 + V3 + V4 + V5 + V6 + V8 + V9 + V10 + V11 + V12 +
##
```

```
##
       V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 + V22 +
       V23 + V25 + V26 + V27 + V28 + V29 + V30 + V32 + V34 + V35 +
##
       V36 + V37 + V38 + V39 + V40 + V41 + V42 + V43 + V44 + V45 +
##
       V46 + V47 + V48 + V49 + V50 + V51 + V52 + V53 + V54 + V55 +
##
       V56 + V57 + V58 + V59 + V60 + V62 + V63 + V64 + V65 + V66 +
##
##
       V67 + V68 + V69 + V70
##
##
                           Df Sum of Sq
                                                RSS
                                                       ATC
## - V21
                            1
                                      51
                                           4830415 3017.9
## - V46
                            1
                                     202
                                           4830566 3017.9
## - V41
                            1
                                     294
                                           4830659 3017.9
## - V60
                            1
                                     572
                                           4830936 3018.0
## - V36
                            1
                                     634
                                           4830999 3018.0
## - V11
                            1
                                     649
                                           4831013 3018.0
## - V43
                            1
                                     650
                                           4831014 3018.0
## - V67
                            1
                                     739
                                           4831103 3018.0
## - V14
                            1
                                     845
                                           4831209 3018.0
## - V44
                            1
                                    1032
                                           4831397 3018.0
## - V25
                            1
                                    1099
                                           4831464 3018.0
## - V27
                            1
                                    1281
                                           4831645 3018.0
## - V54
                            1
                                    1392
                                           4831756 3018.0
## - V30
                            1
                                    1415
                                           4831779 3018.0
## - V29
                            1
                                           4832228 3018.0
                                    1864
## - V49
                            1
                                    1868
                                           4832232 3018.0
## - V39
                                           4832370 3018.0
                            1
                                    2006
## - V35
                            1
                                    2012
                                           4832376 3018.0
## - V18
                            1
                                    2158
                                           4832523 3018.1
## - V28
                            1
                                           4832669 3018.1
                                    2304
## - V9
                            1
                                    3291
                                           4833655 3018.1
## - V52
                            1
                                    3599
                                           4833964 3018.1
## - V50
                            1
                                    4386
                                           4834750 3018.2
## - V62
                            1
                                    4797
                                           4835162 3018.2
## - V10
                            1
                                           4835486 3018.2
                                    5122
## - V56
                            1
                                    5213
                                           4835577 3018.2
## - V68
                            1
                                    5608
                                           4835972 3018.3
## - V57
                            1
                                    6091
                                           4836455 3018.3
## - V55
                            1
                                    6190
                                           4836555 3018.3
## - V34
                            1
                                    6451
                                           4836815 3018.3
## - V15
                            1
                                           4837105 3018.3
                                    6741
## - V16
                            1
                                    8090
                                           4838454 3018.4
## - V42
                            1
                                    8533
                                           4838898 3018.4
## - V58
                            1
                                    9670
                                           4840034 3018.5
## - V45
                            1
                                    9944
                                           4840308 3018.5
## - V69
                            1
                                   10161
                                           4840525 3018.5
## - V38
                            1
                                   10657
                                           4841021 3018.6
## - V19
                            1
                                   10881
                                           4841245 3018.6
## - V12
                            1
                                   11322
                                           4841687 3018.6
## - V47
                            1
                                           4841877 3018.6
                                   11512
## - V40
                            1
                                   12037
                                           4842401 3018.7
## - V4
                            1
                                   12079
                                           4842444 3018.7
## - V17
                            1
                                   12124
                                           4842488 3018.7
## - V20
                            1
                                           4843298 3018.7
                                   12933
## - V53
                            1
                                   13194
                                           4843558 3018.7
## - `START YEAR`
                            1
                                   14257
                                           4844621 3018.8
## - V64
                            1
                                   15254
                                           4845619 3018.9
## - V26
                            1
                                   15676
                                           4846040 3018.9
```

```
## - `START QUARTER`
                           1
                                  16290
                                          4846655 3018.9
## - V66
                            1
                                  16393
                                          4846758 3018.9
## - V59
                            1
                                  17989
                                          4848354 3019.0
## - V65
                            1
                                  18713
                                          4849077 3019.1
## - V13
                                  20837
                                          4851202 3019.2
                            1
## - V51
                           1
                                  20855
                                          4851219 3019.2
## - V63
                            1
                                  24208
                                          4854572 3019.4
## - V48
                           1
                                  25337
                                          4855701 3019.5
## - V22
                                  25652
                                          4856016 3019.5
                            1
## - V32
                           1
                                  29417
                                          4859781 3019.7
## <none>
                                          4830364 3019.9
## - V70
                           1
                                  36864
                                          4867228 3020.2
## - V23
                            1
                                  47002
                                          4877366 3020.8
## - V37
                           1
                                  51528
                                          4881892 3021.1
## - V1
                            1
                                          4897085 3022.0
                                  66721
## - V6
                            1
                                 114717
                                          4945081 3024.9
## - V2
                            1
                                 138093
                                          4968457 3026.3
## - V5
                            1
                                 149744
                                          4980108 3027.0
## - V3
                            1
                                 268633
                                          5098998 3034.0
## - `COMPLETION QUARTER`
                           1
                                 711566
                                          5541930 3058.7
## - `COMPLETION YEAR`
                            1
                                 752566
                                          5582930 3060.9
## - V8
                            1 100842380 105672744 3934.3
##
## Step: AIC=3017.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
       V1 + V2 + V3 + V4 + V5 + V6 + V8 + V9 + V10 + V11 + V12 +
##
       V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V22 + V23 +
##
       V25 + V26 + V27 + V28 + V29 + V30 + V32 + V34 + V35 + V36 +
##
       V37 + V38 + V39 + V40 + V41 + V42 + V43 + V44 + V45 + V46 +
##
       V47 + V48 + V49 + V50 + V51 + V52 + V53 + V54 + V55 + V56 +
##
       V57 + V58 + V59 + V60 + V62 + V63 + V64 + V65 + V66 + V67 +
##
       V68 + V69 + V70
##
##
                           Df Sum of Sq
##
                                              RSS
                                                      ATC
## - V46
                           1
                                    198
                                          4830613 3015.9
## - V41
                            1
                                    365
                                          4830780 3015.9
## - V36
                           1
                                    585
                                          4831000 3016.0
## - V11
                           1
                                    642
                                          4831057 3016.0
## - V60
                           1
                                    668
                                          4831083 3016.0
## - V43
                            1
                                    668
                                          4831083 3016.0
## - V67
                           1
                                    688
                                          4831103 3016.0
## - V14
                            1
                                    806
                                          4831221 3016.0
## - V44
                            1
                                   1007
                                          4831422 3016.0
## - V25
                            1
                                   1049
                                          4831464 3016.0
## - V30
                            1
                                   1379
                                          4831793 3016.0
## - V54
                            1
                                   1417
                                          4831832 3016.0
## - V27
                            1
                                   1511
                                          4831926 3016.0
## - V29
                            1
                                          4832236 3016.0
                                   1821
## - V49
                           1
                                   1829
                                          4832244 3016.0
## - V18
                            1
                                   2163
                                          4832578 3016.1
## - V35
                            1
                                   2176
                                          4832591 3016.1
## - V28
                            1
                                   2259
                                          4832674 3016.1
## - V39
                           1
                                          4832684 3016.1
                                   2269
## - V9
                            1
                                   3265
                                          4833680 3016.1
## - V52
                            1
                                   3570
                                          4833985 3016.1
## - V50
                            1
                                   4336
                                          4834751 3016.2
```

```
## - V62
                                  4766
                           1
                                          4835181 3016.2
## - V10
                           1
                                   5095
                                          4835510 3016.2
## - V56
                           1
                                  5164
                                          4835579 3016.2
## - V68
                           1
                                  5612
                                          4836027 3016.3
## - V55
                                  6153
                           1
                                          4836568 3016.3
## - V57
                           1
                                  6224
                                          4836639 3016.3
## - V34
                           1
                                  6432
                                          4836847 3016.3
                                  6918
## - V15
                           1
                                          4837333 3016.3
## - V16
                                  9543
                                          4839958 3016.5
                           1
## - V58
                           1
                                  9712
                                          4840127 3016.5
## - V45
                           1
                                  10049
                                          4840464 3016.5
## - V42
                           1
                                  10302
                                          4840717 3016.6
## - V69
                           1
                                 11051
                                          4841466 3016.6
## - V38
                           1
                                 11169
                                          4841584 3016.6
## - V4
                           1
                                  12030
                                          4842445 3016.7
## - V19
                           1
                                  12297
                                          4842712 3016.7
## - V53
                           1
                                 13172
                                          4843587 3016.7
## - V47
                           1
                                 13376
                                          4843791 3016.7
## - V40
                           1
                                  13647
                                          4844062 3016.8
## - V17
                           1
                                  13676
                                          4844090 3016.8
## - V20
                                          4844095 3016.8
                           1
                                  13680
## - V12
                           1
                                  14251
                                          4844666 3016.8
## - `START YEAR`
                                 14849
                           1
                                          4845264 3016.8
## - V64
                           1
                                  15420
                                          4845835 3016.9
## - V26
                           1
                                  16139
                                          4846553 3016.9
## - `START QUARTER`
                           1
                                 16298
                                          4846713 3016.9
## - V59
                                 18359
                           1
                                          4848774 3017.0
## - V66
                                          4849342 3017.1
                           1
                                  18927
## - V65
                           1
                                  19558
                                          4849973 3017.1
## - V51
                                          4851451 3017.2
                           1
                                 21036
## - V13
                           1
                                 22686
                                          4853101 3017.3
## - V63
                           1
                                  24222
                                          4854637 3017.4
## - V48
                           1
                                  25544
                                          4855959 3017.5
## - V22
                           1
                                  25673
                                          4856088 3017.5
## <none>
                                          4830415 3017.9
## - V32
                           1
                                  35203
                                          4865618 3018.1
## - V70
                                 41759
                           1
                                          4872174 3018.5
## - V37
                           1
                                  57528
                                          4887943 3019.4
## - V23
                           1
                                  65884
                                          4896299 3019.9
## - V1
                           1
                                          4898735 3020.1
                                  68320
## - V6
                           1
                                115734
                                          4946148 3023.0
## - V2
                           1
                                138883
                                          4969298 3024.3
## - V5
                           1
                                152873
                                          4983288 3025.2
## - V3
                           1
                                269317
                                          5099732 3032.0
## - `COMPLETION QUARTER` 1
                                711517
                                          5541932 3056.7
## - `COMPLETION YEAR`
                           1
                                752826
                                          5583241 3058.9
## - V8
                           1 100951977 105782392 3932.6
##
## Step: AIC=3015.94
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
       V1 + V2 + V3 + V4 + V5 + V6 + V8 + V9 + V10 + V11 + V12 +
##
##
       V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V22 + V23 +
##
       V25 + V26 + V27 + V28 + V29 + V30 + V32 + V34 + V35 + V36 +
       V37 + V38 + V39 + V40 + V41 + V42 + V43 + V44 + V45 + V47 +
##
##
       V48 + V49 + V50 + V51 + V52 + V53 + V54 + V55 + V56 + V57 +
       V58 + V59 + V60 + V62 + V63 + V64 + V65 + V66 + V67 + V68 +
##
```

##
- V67
- V14
- V11
- V27
- V36
- V41
- V44
- V54
- V54
- V43
- V28
- V29
- V39
- V18
- V25
- V50
- V30
- V56
- V9
- V35
- V10
- V49
- V45
- V52
- V16
- V55
- V62
- V69
- V4 1 11897 4842510 3014.7 ## - V15 1 12903 4843516 3014.7 ## - V57 1 13429 4844042 3014.8 ## - V68 1 13503 4844116 3014.8
- V15
- V57
- V68 1 13503 4844116 3014.8
- V68 1 13503 4844116 3014.8
- V47 1 14164 4844776 3014.8
- V42 1 14781 4845394 3014.8
- V19 1 14930 4845543 3014.9
- V58 1 15512 4846125 3014.9
- `START QUARTER` 1 16181 4846794 3014.9
- V26 1 16792 4847405 3015.0
- V17 1 18286 4848899 3015.1
- V38 1 19083 4849695 3015.1
- V12 1 19165 4849778 3015.1
- V65 1 20018 4850631 3015.2
- V20 1 21267 4851880 3015.2
- `START YEAR` 1 21366 4851979 3015.2
- V53 1 21829 4852442 3015.3
- V63 1 24120 4854733 3015.4
- V40 1 24942 4855555 3015.5
- V34 1 25258 4855871 3015.5
- V48 1 26063 4856675 3015.5
- V66 1 26304 4856917 3015.5
- V59 1 27546 4858159 3015.6
- V22 1 27654 4858267 3015.6
122

```
## <none>
                                          4830613 3015.9
## - V51
                           1
                                 35149
                                         4865762 3016.1
## - V13
                           1
                                 40456
                                         4871069 3016.4
## - V70
                           1
                                 41589
                                         4872202 3016.5
## - V32
                           1
                                         4872796 3016.5
                                 42183
## - V37
                           1
                                 57751
                                         4888364 3017.5
## - V23
                           1
                                 66294
                                         4896906 3018.0
## - V1
                           1
                                 68396
                                         4899009 3018.1
## - V6
                                115723
                                         4946336 3021.0
                           1
## - V2
                           1
                                138927
                                         4969540 3022.4
## - V5
                           1
                                152678
                                         4983291 3023.2
## - V3
                           1
                              269238
                                         5099851 3030.0
## - `COMPLETION QUARTER` 1
                                712860
                                         5543473 3054.8
## - `COMPLETION YEAR`
                         1 764115
                                         5594728 3057.6
## - V8
                           1 101120928 105951541 3931.1
##
## Step: AIC=3013.97
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
##
       V1 + V2 + V3 + V4 + V5 + V6 + V8 + V9 + V10 + V11 + V12 +
##
       V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V22 + V23 +
       V25 + V26 + V27 + V28 + V29 + V30 + V32 + V34 + V35 + V36 +
##
       V37 + V38 + V39 + V40 + V41 + V42 + V43 + V44 + V45 + V47 +
##
       V48 + V49 + V50 + V51 + V52 + V53 + V54 + V55 + V56 + V57 +
##
       V58 + V59 + V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 +
##
       V70
##
##
##
                          Df Sum of Sq
                                              RSS
                                                     AIC
                           1
## - V14
                                   754
                                         4831903 3012.0
## - V67
                           1
                                  1006
                                         4832155 3012.0
## - V36
                           1
                                  1549
                                         4832698 3012.1
## - V27
                           1
                                  1592
                                         4832740 3012.1
## - V54
                           1
                                  1748
                                         4832896 3012.1
## - V43
                           1
                                  1877
                                         4833026 3012.1
## - V29
                           1
                                  1978
                                          4833127 3012.1
## - V44
                           1
                                  2185
                                         4833334 3012.1
## - V28
                           1
                                  2309
                                          4833458 3012.1
## - V39
                           1
                                  2403
                                         4833552 3012.1
## - V11
                           1
                                  2513
                                          4833662 3012.1
## - V41
                           1
                                  2558
                                          4833707 3012.1
## - V18
                           1
                                  3082
                                          4834231 3012.2
## - V25
                           1
                                  4112
                                          4835261 3012.2
## - V50
                           1
                                  4454
                                          4835603 3012.2
## - V30
                           1
                                  5192
                                          4836341 3012.3
## - V9
                           1
                                  5334
                                          4836482 3012.3
## - V10
                           1
                                  5639
                                          4836787 3012.3
## - V56
                           1
                                  5853
                                          4837002 3012.3
## - V35
                           1
                                  5875
                                          4837023 3012.3
## - V49
                           1
                                  8285
                                          4839434 3012.5
## - V45
                           1
                                 10122
                                          4841271 3012.6
## - V55
                           1
                                 10897
                                          4842046 3012.6
## - V69
                                 11596
                           1
                                         4842745 3012.7
## - V62
                           1
                                 11601
                                         4842749 3012.7
## - V52
                           1
                                 11676
                                         4842824 3012.7
## - V4
                           1
                                 12141
                                         4843289 3012.7
## - V16
                           1
                                 12181
                                          4843329 3012.7
## - V47
                           1
                                 14959
                                         4846107 3012.9
```

```
## - V19
                                         4846492 3012.9
                           1
                                 15344
## - V57
                           1
                                 15481
                                         4846630 3012.9
## - V26
                           1
                                 17232
                                         4848381 3013.0
## - `START QUARTER`
                           1
                                 17235
                                         4848384 3013.0
## - V64
                                 17435
                                         4848584 3013.0
                           1
## - V15
                           1
                                 17706
                                         4848855 3013.1
## - V58
                           1
                                 17763
                                          4848912 3013.1
## - V68
                           1
                                 17901
                                         4849050 3013.1
## - V42
                                 18732
                                         4849881 3013.1
                           1
## - V17
                           1
                                 19427
                                         4850575 3013.2
## - V20
                           1
                                 20908
                                          4852056 3013.3
## - V38
                           1
                                 21227
                                         4852376 3013.3
## - V65
                           1
                                 22372
                                         4853520 3013.3
## - V12
                           1
                                 23990
                                         4855139 3013.4
## - V63
                           1
                                 24459
                                          4855608 3013.5
## - V48
                           1
                                 25764
                                          4856912 3013.5
## - V53
                           1
                                 26976
                                          4858125 3013.6
## - `START YEAR`
                           1
                                 27330
                                         4858479 3013.6
## - V66
                           1
                                 28154
                                          4859302 3013.7
## - V22
                           1
                                 29201
                                          4860350 3013.8
## - V59
                           1
                                 31347
                                          4862496 3013.9
## - V40
                           1
                                 31451
                                          4862600 3013.9
## <none>
                                          4831149 3014.0
## - V34
                           1
                                 33082
                                         4864231 3014.0
## - V51
                                 40755
                                          4871903 3014.5
                           1
## - V13
                           1
                                 45327
                                         4876476 3014.7
## - V32
                           1
                                 46484
                                         4877633 3014.8
## - V70
                           1
                                 48634
                                         4879783 3014.9
## - V37
                           1
                                         4895064 3015.9
                                 63915
## - V1
                           1
                                 67988
                                         4899136 3016.1
## - V23
                           1
                                 74346
                                         4905495 3016.5
## - V6
                           1
                                116098
                                         4947247 3019.0
## - V2
                           1
                              138468
                                         4969616 3020.4
## - V5
                           1
                                153812
                                         4984961 3021.3
## - V3
                           1 268772
                                         5099920 3028.0
## - `COMPLETION QUARTER` 1
                                715250
                                         5546399 3053.0
## - `COMPLETION YEAR`
                           1
                                764532
                                         5595681 3055.6
## - V8
                           1 101413912 106245061 3929.9
##
## Step: AIC=3012.01
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
##
       V1 + V2 + V3 + V4 + V5 + V6 + V8 + V9 + V10 + V11 + V12 +
##
       V13 + V15 + V16 + V17 + V18 + V19 + V20 + V22 + V23 + V25 +
       V26 + V27 + V28 + V29 + V30 + V32 + V34 + V35 + V36 + V37 +
##
##
       V38 + V39 + V40 + V41 + V42 + V43 + V44 + V45 + V47 + V48 +
       V49 + V50 + V51 + V52 + V53 + V54 + V55 + V56 + V57 + V58 +
##
       V59 + V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70
##
##
##
                          Df Sum of Sq
                                              RSS
                                                     AIC
## - V36
                           1
                                   836
                                          4832739 3010.1
## - V27
                           1
                                   962
                                         4832865 3010.1
## - V43
                           1
                                  1151
                                         4833054 3010.1
## - V44
                           1
                                         4833440 3010.1
                                  1537
## - V29
                           1
                                         4833727 3010.1
                                  1824
                                  1838
## - V11
                           1
                                         4833740 3010.1
## - V54
                           1
                                  2214
                                         4834117 3010.2
```

## -	V67	1	2458	4834361	3010.2
## -	V18	1	2650	4834553	
## -		1	2684	4834587	3010.2
## -		1	4005	4835908	
## -	V9	1	4601	4836504	
## -	V30	1	4926	4836829	3010.3
## -	V56	1	5392	4837295	3010.3
## -	V10	1	5962	4837865	3010.4
## -		1	6742	4838645	
## -	V41	1	7114	4839017	3010.5
## -		1	9041	4840944	
## -		1	10852	4842755	
## -		1	10928	4842830	
## -		1	11614	4843517	
## -		1	11629	4843532	
## -	V52	1	11666	4843569	
## -	V57	1	16562	4848465	
## -	V15	1	17579	4849482	
## -	V19	1	17583	4849486	3011.1
## -	V55	1	18485	4850388	
## -	V58	1	18713	4850615	3011.2
## -	V50	1	19591	4851494	3011.2
## -	V69	1	19718	4851621	3011.2
## -	V68	1	22063	4853966	3011.4
## -	V63	1	23713	4855616	3011.5
## -	V38	1	23809	4855712	3011.5
## -	V45	1	24464	4856367	3011.5
## -	V17	1	27210	4859113	
## -	V66	1	27406	4859309	3011.7
## -	V22	1	28782	4860685	3011.8
## -	V12	1	28941	4860843	
## -	V48	1	29855	4861758	3011.8
## -	V53	1	29891	4861794	
## -		1	30727		
## -		1	32045	4863948	
## -		1	32246		
## -		1	32466		
	none>	_		4831903	
## -		1	32801		
## -		1	33096		
## -		1	33304	4865207	
	`START YEAR`	1	35993	4867896	
## -		1	37319		
	`START QUARTER`		37559		
## -		1	42738	4874641	
## -		1	46568		
## -		1	46760	4878663	
## -		1	48537		
## -		1	49184		
## -		1	64186	4896089	
## -		1	67241		
## -			74280		
## -	V6	1	116227	4948130	3017.1
## -	V2	1	143421	4975324	3018.7
## -		1	154752	4986654	3019.4
## -	V3	1	271883	5103786	3026.3

```
## - `COMPLETION QUARTER` 1
                                 721956
                                          5553859 3051.4
## - `COMPLETION YEAR`
                           1
                                 773711
                                          5605613 3054.1
## - V8
                            1 101719885 106551788 3928.8
##
## Step: AIC=3010.07
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
##
       V1 + V2 + V3 + V4 + V5 + V6 + V8 + V9 + V10 + V11 + V12 +
##
       V13 + V15 + V16 + V17 + V18 + V19 + V20 + V22 + V23 + V25 +
       V26 + V27 + V28 + V29 + V30 + V32 + V34 + V35 + V37 + V38 +
##
       V39 + V40 + V41 + V42 + V43 + V44 + V45 + V47 + V48 + V49 +
##
##
       V50 + V51 + V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 +
       V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70
##
##
##
                           Df Sum of Sq
                                               RSS
                                                      AIC
## - V43
                            1
                                    439
                                          4833178 3008.1
## - V44
                            1
                                   1248
                                          4833987 3008.1
## - V11
                            1
                                   1668
                                          4834407 3008.2
## - V27
                            1
                                   1771
                                          4834510 3008.2
## - V18
                            1
                                   1817
                                          4834556 3008.2
## - V39
                            1
                                   2452
                                          4835192 3008.2
## - V29
                            1
                                   2841
                                          4835580 3008.2
## - V54
                            1
                                   3044
                                          4835783 3008.3
## - V28
                                   3704
                            1
                                          4836443 3008.3
## - V9
                            1
                                   3843
                                          4836582 3008.3
## - V30
                                   4225
                            1
                                          4836964 3008.3
## - V56
                            1
                                   4844
                                          4837584 3008.4
## - V67
                                   5212
                            1
                                          4837951 3008.4
## - V25
                            1
                                   6299
                                          4839038 3008.5
## - V41
                                   7018
                            1
                                          4839757 3008.5
## - V10
                            1
                                   7848
                                          4840588 3008.5
## - V35
                            1
                                   8233
                                          4840972 3008.6
## - V49
                            1
                                  10093
                                          4842832 3008.7
## - V62
                            1
                                  11066
                                          4843805 3008.7
## - V52
                                          4844041 3008.8
                            1
                                  11302
## - V4
                            1
                                  11318
                                          4844057 3008.8
## - V16
                            1
                                  12295
                                          4845035 3008.8
## - V57
                            1
                                  16331
                                          4849070 3009.1
## - V19
                            1
                                  16887
                                          4849627 3009.1
## - V15
                            1
                                  17063
                                          4849802 3009.1
## - V55
                            1
                                  17859
                                          4850598 3009.2
## - V58
                            1
                                  18414
                                          4851153 3009.2
## - V69
                            1
                                  19487
                                          4852226 3009.3
## - V68
                            1
                                  21277
                                          4854016 3009.4
## - V50
                            1
                                  22391
                                          4855131 3009.4
## - V38
                            1
                                  23243
                                          4855982 3009.5
## - V63
                            1
                                  23362
                                          4856101 3009.5
## - V17
                            1
                                  29222
                                          4861961 3009.9
## - V12
                            1
                                  31447
                                          4864186 3010.0
## - V53
                            1
                                  31536
                                          4864275 3010.0
## - V42
                            1
                                  31636
                                          4864375 3010.0
## - V47
                                  32564
                            1
                                          4865303 3010.1
## <none>
                                          4832739 3010.1
## - V22
                            1
                                  33715
                                          4866454 3010.1
## - V20
                            1
                                  33917
                                          4866656 3010.1
## - V59
                            1
                                  35796
                                          4868535 3010.3
## - V34
                            1
                                  36549
                                          4869288 3010.3
```

```
## - V66
                                  37153
                           1
                                          4869892 3010.3
## - `START YEAR`
                           1
                                  37434
                                          4870173 3010.4
## - V40
                           1
                                  40239
                                          4872978 3010.5
## - V45
                           1
                                  41508
                                          4874247 3010.6
## - V48
                                 41805
                                          4874544 3010.6
                           1
## - V51
                           1
                                 41942
                                          4874681 3010.6
## - V65
                           1
                                  48448
                                          4881187 3011.0
## - V13
                           1
                                 49686
                                          4882425 3011.1
## - V26
                                          4884904 3011.3
                           1
                                 52165
## - V64
                           1
                                 56515
                                          4889254 3011.5
## - `START QUARTER`
                           1
                                  59199
                                          4891938 3011.7
## - V70
                           1
                                  60085
                                          4892824 3011.7
## - V1
                           1
                                  67362
                                          4900101 3012.2
## - V37
                           1
                                 78712
                                          4911452 3012.9
## - V23
                           1
                                  82871
                                          4915610 3013.1
## - V32
                           1
                                 91371
                                          4924110 3013.6
## - V6
                           1
                                117041
                                          4949780 3015.2
## - V2
                           1
                                145422
                                          4978161 3016.9
## - V5
                           1
                                156280
                                          4989019 3017.5
## - V3
                           1
                                272280
                                          5105019 3024.3
## - `COMPLETION QUARTER` 1
                                723759
                                          5556498 3049.5
## - `COMPLETION YEAR`
                          1
                                773117
                                          5605856 3052.1
## - V8
                           1 101969664 106802403 3927.4
##
## Step: AIC=3008.09
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
       V1 + V2 + V3 + V4 + V5 + V6 + V8 + V9 + V10 + V11 + V12 +
##
       V13 + V15 + V16 + V17 + V18 + V19 + V20 + V22 + V23 + V25 +
##
       V26 + V27 + V28 + V29 + V30 + V32 + V34 + V35 + V37 + V38 +
##
##
       V39 + V40 + V41 + V42 + V44 + V45 + V47 + V48 + V49 + V50 +
      V51 + V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V62 +
##
       V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70
##
##
                          Df Sum of Sq
                                              RSS
##
                                                     ATC
## - V27
                           1
                                  1333
                                          4834511 3006.2
## - V18
                           1
                                  1378
                                          4834556 3006.2
## - V11
                                  1395
                           1
                                          4834573 3006.2
## - V44
                           1
                                  1521
                                          4834699 3006.2
## - V39
                           1
                                  3102
                                          4836280 3006.3
## - V28
                           1
                                  4488
                                          4837666 3006.4
## - V9
                                          4838287 3006.4
                           1
                                  5109
## - V56
                           1
                                  5523
                                          4838701 3006.4
## - V30
                           1
                                  5979
                                          4839157 3006.5
## - V25
                           1
                                  6234
                                          4839412 3006.5
## - V54
                           1
                                  6397
                                          4839575 3006.5
## - V41
                           1
                                  7520
                                          4840698 3006.6
## - V35
                           1
                                  8144
                                          4841322 3006.6
## - V29
                           1
                                  8955
                                          4842133 3006.6
## - V10
                           1
                                  10786
                                          4843965 3006.8
## - V67
                           1
                                  11082
                                          4844260 3006.8
## - V4
                           1
                                  11166
                                          4844344 3006.8
## - V49
                           1
                                          4844806 3006.8
                                  11628
## - V16
                           1
                                  12159
                                          4845337 3006.8
## - V52
                           1
                                  13982
                                          4847160 3007.0
                                          4849797 3007.1
## - V19
                           1
                                  16619
## - V55
                           1
                                  17856
                                          4851034 3007.2
```

```
## - V57
                           1
                                  18806
                                          4851984 3007.2
## - V69
                            1
                                  19062
                                          4852240 3007.3
## - V58
                            1
                                  20205
                                          4853384 3007.3
## - V38
                            1
                                  23749
                                          4856927 3007.5
                                  25532
## - V50
                                          4858710 3007.7
                            1
## - V62
                           1
                                  26238
                                          4859416 3007.7
## - V15
                            1
                                  26922
                                          4860100 3007.7
## - V68
                           1
                                  27643
                                          4860821 3007.8
## - V63
                                  28394
                                          4861572 3007.8
                           1
## - V17
                           1
                                  29152
                                          4862330 3007.9
## - V12
                            1
                                  31555
                                          4864733 3008.0
## <none>
                                          4833178 3008.1
## - V47
                           1
                                  33688
                                          4866867 3008.2
## - V22
                           1
                                  33941
                                          4867119 3008.2
## - V20
                                  34362
                                          4867540 3008.2
                            1
## - V42
                            1
                                  37873
                                          4871051 3008.4
## - `START YEAR`
                            1
                                  37986
                                          4871164 3008.4
## - V53
                            1
                                  41868
                                          4875046 3008.7
## - V59
                            1
                                  42067
                                          4875245 3008.7
## - V45
                            1
                                  42963
                                          4876141 3008.7
## - V40
                            1
                                  45702
                                          4878880 3008.9
## - V66
                            1
                                  47258
                                          4880436 3009.0
## - V65
                                  48130
                            1
                                          4881308 3009.0
## - V51
                            1
                                  51825
                                          4885003 3009.3
## - V26
                                          4886282 3009.3
                            1
                                  53104
## - V34
                            1
                                  53608
                                          4886786 3009.4
## - V48
                                          4887186 3009.4
                            1
                                  54008
## - V70
                            1
                                  59730
                                          4892908 3009.7
## - V64
                            1
                                          4893249 3009.8
                                  60070
## - V13
                                          4895193 3009.9
                            1
                                  62015
## - `START QUARTER`
                           1
                                  62346
                                          4895524 3009.9
## - V1
                            1
                                  66963
                                          4900142 3010.2
## - V37
                            1
                                  83185
                                          4916363 3011.2
## - V23
                                  98059
                            1
                                          4931237 3012.1
## - V32
                           1
                                 108125
                                          4941303 3012.7
## - V6
                            1
                                 116753
                                          4949931 3013.2
## - V2
                           1
                                 146195
                                          4979373 3014.9
## - V5
                            1
                                 155967
                                          4989145 3015.5
## - V3
                                          5105596 3022.4
                            1
                                 272418
## - `COMPLETION QUARTER`
                           1
                                          5558414 3047.6
                                 725236
## - `COMPLETION YEAR`
                           1
                                774395
                                          5607574 3050.2
## - V8
                            1 101983018 106816196 3925.5
##
## Step: AIC=3006.17
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
       V1 + V2 + V3 + V4 + V5 + V6 + V8 + V9 + V10 + V11 + V12 +
##
       V13 + V15 + V16 + V17 + V18 + V19 + V20 + V22 + V23 + V25 +
##
##
       V26 + V28 + V29 + V30 + V32 + V34 + V35 + V37 + V38 + V39 +
##
       V40 + V41 + V42 + V44 + V45 + V47 + V48 + V49 + V50 + V51 +
       V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V62 + V63 +
##
##
       V64 + V65 + V66 + V67 + V68 + V69 + V70
##
##
                          Df Sum of Sq
                                                     AIC
                                              RSS
## - V11
                            1
                                    613
                                          4835125 3004.2
## - V44
                            1
                                   1294
                                          4835806 3004.3
## - V18
                            1
                                   4566
                                          4839078 3004.5
```

	## - V28	1	4675	4839186	3004.5
	## - V56	1	5911	4840422	3004.5
	## - V30	1	8235	4842746	3004.7
ı	## - V39	1	8378	4842890	3004.7
ı	## - V25	1	8582	4843093	3004.7
	## - V54	1	9578	4844089	3004.8
ı	## - V67	1	9835	4844346	3004.8
	## - V41	1	9880	4844391	3004.8
ı	## - V9	1	10164	4844675	3004.8
	## - V16	1	10827	4845338	3004.8
ı	## - V4	1	11140	4845652	3004.9
ı	## - V29	1	12149	4846660	3004.9
ı	## - V10	1	13311	4847822	3005.0
	## - V49	1	13601	4848112	3005.0
ı	## - V35	1	14884	4849395	3005.1
	## - V55	1	20603	4855114	3005.4
	## - V69	1	21834	4856345	3005.5
	## - V52	1	21875		3005.5
	## - V15	1	25637	4860149	
ı	## - V58	1	29224	4863735	
ı	## - V57	1	29292		
	## - V12	1	30347	4864858	
	## - V68	1	30800	4865311	
	## <none></none>	_	30000	4834511	
	## - V19	1	33670	4868181	
ı	## - V62	1	34224	4868735	
	## - V38	1	34902		
	## - V63	1	36409		
	## - V50	1	36557	4871069	
	## - `START YEAR`	1	37616		
	## - V42	1	40337	4874848	
ı	## - V42 ## - V40	1	44505	4879017	
	## - V53	1		4881613	
ı	## - V65	1	47691 48517		
	## - V22	1	48517		
ı	## - V17	1		4883032	
	## - V20	1		4884864	
ı	## - V34	1		4887082	
	## - V66	1		4887919	
	## - V47	1	55018		
	## - V45	1	58088	4892599	
	## - V59	1		4893727	
ı	## - V51	1		4898201	
	## - V1	1		4901170	
	## - `START QUARTER`	1		4904077	
	## - V48	1	74403		
	## - V26	1	74448		
	## - V70	1	74889		
	## - V13	1		4916253	
	## - V64	1		4920060	
	## - V37	1	87480		
	## - V6	1	119201		
	## - V32	1	119942		
	## - V23	1	125399	4959910	
	## - V2	1		4979501	
	## - V5	1	156808	4991319	3013.7
1					

```
## - V3
                                 271128
                                          5105640 3020.4
                           1
## - `COMPLETION QUARTER` 1
                                 723945
                                          5558456 3045.6
## - `COMPLETION YEAR`
                           1
                                 776467
                                          5610978 3048.4
## - V8
                           1 102554722 107389233 3925.1
##
## Step: AIC=3004.21
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
##
       V1 + V2 + V3 + V4 + V5 + V6 + V8 + V9 + V10 + V12 + V13 +
       V15 + V16 + V17 + V18 + V19 + V20 + V22 + V23 + V25 + V26 +
##
##
       V28 + V29 + V30 + V32 + V34 + V35 + V37 + V38 + V39 + V40 +
##
       V41 + V42 + V44 + V45 + V47 + V48 + V49 + V50 + V51 + V52 +
       V53 + V54 + V55 + V56 + V57 + V58 + V59 + V62 + V63 + V64 +
##
##
       V65 + V66 + V67 + V68 + V69 + V70
##
##
                           Df Sum of Sq
                                              RSS
                                                      AIC
## - V44
                            1
                                    681
                                          4835806 3002.3
## - V18
                            1
                                   4341
                                          4839466 3002.5
## - V28
                           1
                                   4689
                                          4839814 3002.5
## - V56
                            1
                                   5827
                                          4840952 3002.6
## - V25
                           1
                                   8539
                                          4843664 3002.7
## - V30
                                          4844022 3002.8
                            1
                                   8897
## - V39
                            1
                                   9296
                                          4844421 3002.8
## - V67
                                   9433
                            1
                                          4844558 3002.8
## - V9
                           1
                                   9723
                                          4844847 3002.8
## - V54
                                          4844974 3002.8
                            1
                                   9849
## - V4
                            1
                                  11515
                                          4846640 3002.9
## - V41
                            1
                                  11990
                                          4847115 3002.9
## - V16
                            1
                                          4847836 3003.0
                                  12711
## - V49
                            1
                                          4848113 3003.0
                                  12988
## - V10
                            1
                                          4849000 3003.1
                                  13876
## - V35
                            1
                                  14274
                                          4849399 3003.1
## - V29
                            1
                                  15396
                                          4850520 3003.2
## - V69
                           1
                                  21455
                                          4856580 3003.5
## - V52
                           1
                                  22458
                                          4857583 3003.6
## - V55
                           1
                                  27944
                                          4863069 3003.9
## - V58
                            1
                                  28639
                                          4863763 3004.0
## - V57
                            1
                                  29451
                                          4864575 3004.0
## - V12
                            1
                                  30095
                                          4865220 3004.1
## <none>
                                          4835125 3004.2
## - V62
                            1
                                          4868762 3004.3
                                  33637
## - V68
                            1
                                  35538
                                          4870663 3004.4
## - V19
                            1
                                  36554
                                          4871679 3004.4
## - V50
                            1
                                  37031
                                          4872155 3004.5
## - V38
                            1
                                  38558
                                          4873682 3004.6
## - V63
                            1
                                  43727
                                          4878852 3004.9
## - V22
                            1
                                  47918
                                          4883043 3005.1
## - V17
                            1
                                  48485
                                          4883610 3005.2
## - V20
                            1
                                  49857
                                          4884982 3005.3
## - V42
                            1
                                  52856
                                          4887981 3005.4
## - V66
                            1
                                  53732
                                          4888857 3005.5
## - `START YEAR`
                            1
                                  54365
                                          4889489 3005.5
## - V15
                            1
                                  54589
                                          4889714 3005.5
## - V65
                            1
                                          4892409 3005.7
                                  57284
## - V47
                            1
                                  57334
                                          4892458 3005.7
## - V45
                            1
                                  58423
                                          4893548 3005.8
## - V1
                            1
                                  66564
                                          4901689 3006.3
```

```
## - V40
                           1
                                  67681
                                          4902806 3006.3
## - V53
                                          4905507 3006.5
                           1
                                  70382
## - `START QUARTER`
                           1
                                 74325
                                          4909449 3006.7
## - V26
                           1
                                 76032
                                          4911157 3006.8
## - V34
                                  76525
                           1
                                          4911650 3006.9
## - V59
                           1
                                  86096
                                          4921221 3007.5
## - V64
                           1
                                  87164
                                          4922289 3007.5
## - V51
                           1
                                  88155
                                          4923280 3007.6
## - V37
                                  88469
                                          4923594 3007.6
                           1
## - V48
                           1
                                  88566
                                          4923691 3007.6
## - V13
                           1
                                 93104
                                          4928229 3007.9
## - V6
                                          4957962 3009.7
                           1
                                122837
## - V23
                           1
                                125997
                                          4961122 3009.9
## - V2
                           1
                                144386
                                          4979511 3011.0
## - V5
                           1
                                159899
                                          4995023 3011.9
## - V32
                           1
                                171504
                                          5006629 3012.6
## - V70
                           1
                                198347
                                          5033472 3014.2
## - V3
                           1
                                270675
                                          5105799 3018.4
## - `COMPLETION QUARTER`
                           1
                                724661
                                          5559786 3043.7
## - `COMPLETION YEAR`
                           1
                                777594
                                          5612718 3046.5
## - V8
                           1 102942111 107777236 3924.1
##
## Step: AIC=3002.25
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
       V1 + V2 + V3 + V4 + V5 + V6 + V8 + V9 + V10 + V12 + V13 +
##
       V15 + V16 + V17 + V18 + V19 + V20 + V22 + V23 + V25 + V26 +
##
       V28 + V29 + V30 + V32 + V34 + V35 + V37 + V38 + V39 + V40 +
##
       V41 + V42 + V45 + V47 + V48 + V49 + V50 + V51 + V52 + V53 +
##
       V54 + V55 + V56 + V57 + V58 + V59 + V62 + V63 + V64 + V65 +
##
##
       V66 + V67 + V68 + V69 + V70
##
##
                          Df Sum of Sq
                                              RSS
                                                     AIC
## - V18
                           1
                                  3933
                                          4839739 3000.5
## - V28
                           1
                                  4192
                                          4839998 3000.5
## - V56
                           1
                                  7897
                                          4843703 3000.7
## - V25
                           1
                                  8443
                                          4844249 3000.8
## - V39
                                          4844559 3000.8
                           1
                                  8754
## - V9
                           1
                                  9519
                                          4845325 3000.8
## - V67
                           1
                                  9751
                                          4845556 3000.9
## - V30
                           1
                                  9924
                                          4845730 3000.9
## - V4
                           1
                                  11558
                                          4847364 3001.0
## - V54
                           1
                                  12215
                                          4848021 3001.0
## - V49
                           1
                                  13437
                                          4849243 3001.1
## - V10
                           1
                                  13496
                                          4849302 3001.1
## - V35
                           1
                                  14239
                                          4850044 3001.1
## - V29
                           1
                                  15239
                                          4851044 3001.2
## - V41
                           1
                                  17371
                                          4853176 3001.3
## - V16
                           1
                                          4853847 3001.4
                                  18041
## - V69
                           1
                                  20790
                                          4856596 3001.5
## - V52
                           1
                                  22000
                                          4857806 3001.6
## - V55
                           1
                                  27876
                                          4863682 3002.0
## - V58
                           1
                                  28746
                                          4864551 3002.0
## - V57
                                  28934
                                          4864740 3002.0
                           1
## - V12
                           1
                                  30156
                                          4865962 3002.1
## <none>
                                          4835806 3002.3
## - V62
                           1
                                  33141
                                          4868947 3002.3
```

```
## - V68
                                          4871705 3002.5
                           1
                                  35899
## - V19
                           1
                                  37655
                                          4873461 3002.6
## - V38
                           1
                                  38268
                                          4874073 3002.6
## - V50
                                 40938
                           1
                                          4876743 3002.8
## - V17
                                  48942
                                          4884748 3003.2
                           1
## - V20
                           1
                                  50088
                                          4885894 3003.3
## - V66
                           1
                                  53650
                                          4889456 3003.5
## - `START YEAR`
                           1
                                  54077
                                          4889883 3003.6
## - V15
                                  56557
                                          4892362 3003.7
                           1
## - V65
                           1
                                  56749
                                          4892554 3003.7
## - V45
                           1
                                  57764
                                          4893570 3003.8
## - V22
                                          4899359 3004.1
                           1
                                  63553
## - V42
                           1
                                  64114
                                          4899920 3004.2
## - V1
                           1
                                  66317
                                          4902123 3004.3
## - V63
                           1
                                  66982
                                          4902788 3004.3
## - V40
                           1
                                  69880
                                          4905686 3004.5
## - V53
                           1
                                  71179
                                          4906985 3004.6
## - V47
                           1
                                 72601
                                          4908407 3004.7
## - `START QUARTER`
                           1
                                  73727
                                          4909532 3004.7
## - V26
                           1
                                  75392
                                          4911197 3004.8
## - V34
                           1
                                  77632
                                          4913438 3005.0
## - V59
                           1
                                  85583
                                          4921388 3005.5
## - V64
                           1
                                          4922391 3005.5
                                  86586
## - V37
                                          4925876 3005.7
                           1
                                  90070
## - V13
                                          4933621 3006.2
                           1
                                 97815
## - V48
                           1
                                109708
                                          4945514 3006.9
## - V51
                                          4946791 3007.0
                           1
                                110985
## - V6
                           1
                                128714
                                          4964519 3008.1
## - V2
                           1
                                143749
                                          4979555 3009.0
## - V23
                           1
                                          4987047 3009.4
                                151241
## - V5
                           1
                                162637
                                          4998442 3010.1
## - V32
                           1
                                171431
                                          5007237 3010.6
## - V70
                           1
                                          5104318 3016.3
                                268512
## - V3
                           1
                                270744
                                          5106549 3016.4
## - `COMPLETION QUARTER` 1
                                724757
                                          5560563 3041.7
## - `COMPLETION YEAR`
                           1
                                782924
                                          5618730 3044.8
## - V8
                           1 103271746 108107552 3923.1
##
## Step: AIC=3000.5
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
       V1 + V2 + V3 + V4 + V5 + V6 + V8 + V9 + V10 + V12 + V13 +
##
##
       V15 + V16 + V17 + V19 + V20 + V22 + V23 + V25 + V26 + V28 +
##
       V29 + V30 + V32 + V34 + V35 + V37 + V38 + V39 + V40 + V41 +
       V42 + V45 + V47 + V48 + V49 + V50 + V51 + V52 + V53 + V54 +
##
##
       V55 + V56 + V57 + V58 + V59 + V62 + V63 + V64 + V65 + V66 +
       V67 + V68 + V69 + V70
##
##
##
                          Df Sum of Sq
                                              RSS
                                                     AIC
## - V25
                           1
                                  4597
                                          4844336 2998.8
## - V28
                                          4844692 2998.8
                           1
                                  4954
## - V39
                           1
                                  5192
                                          4844931 2998.8
## - V9
                           1
                                          4845385 2998.8
                                  5646
## - V30
                           1
                                  6897
                                          4846635 2998.9
## - V56
                           1
                                  9026
                                          4848765 2999.0
                                  9588
## - V49
                           1
                                          4849326 2999.1
## - V10
                           1
                                  9589
                                          4849328 2999.1
```

```
## - V4
                           1
                                  11301
                                          4851040 2999.2
## - V29
                                          4851865 2999.2
                           1
                                  12126
## - V41
                           1
                                  14205
                                          4853944 2999.4
## - V35
                                          4854451 2999.4
                           1
                                  14713
## - V52
                                  18492
                                          4858230 2999.6
                           1
## - V67
                           1
                                  19047
                                          4858786 2999.7
## - V69
                           1
                                  19824
                                          4859563 2999.7
## - V57
                           1
                                          4866044 3000.1
                                  26305
## - V58
                                          4866617 3000.1
                           1
                                  26878
## - V54
                           1
                                  27828
                                          4867566 3000.2
## - V55
                           1
                                  28379
                                          4868117 3000.2
## - V12
                           1
                                  29401
                                          4869140 3000.3
## - V68
                           1
                                  31982
                                          4871721 3000.5
## <none>
                                          4839739 3000.5
## - V16
                           1
                                  34427
                                          4874165 3000.6
## - V19
                           1
                                  34434
                                          4874173 3000.6
## - V38
                           1
                                  36630
                                          4876369 3000.7
## - V62
                           1
                                  36938
                                          4876677 3000.8
## - V50
                           1
                                  37825
                                          4877564 3000.8
## - V20
                           1
                                  48624
                                          4888363 3001.5
## - V66
                           1
                                  49731
                                          4889469 3001.5
## - V65
                           1
                                  54013
                                          4893752 3001.8
## - V17
                           1
                                          4895569 3001.9
                                  55830
## - V45
                           1
                                  58170
                                          4897908 3002.0
## - V22
                                          4900481 3002.2
                           1
                                  60742
## - V42
                           1
                                  62504
                                          4902243 3002.3
## - V15
                           1
                                  63075
                                          4902813 3002.3
## - V63
                           1
                                  65798
                                          4905536 3002.5
## - V40
                           1
                                          4907801 3002.6
                                  68062
## - V1
                                  68290
                                          4908029 3002.7
                           1
## - V47
                           1
                                  69026
                                          4908764 3002.7
## - V34
                           1
                                  73758
                                          4913496 3003.0
## - V26
                           1
                                 73987
                                          4913725 3003.0
## - `START QUARTER`
                                          4920872 3003.4
                           1
                                  81134
## - V53
                           1
                                  84919
                                          4924657 3003.7
## - V59
                           1
                                  89880
                                          4929619 3004.0
## - V64
                                          4929675 3004.0
                           1
                                 89936
## - V37
                           1
                                 90594
                                          4930332 3004.0
## - V48
                           1
                                 107598
                                          4947336 3005.0
## - V13
                                          4948126 3005.1
                           1
                                 108388
## - V51
                                          4951195 3005.3
                           1
                                 111456
## - `START YEAR`
                           1
                                 115615
                                          4955353 3005.5
## - V6
                           1
                                 127090
                                          4966829 3006.2
## - V2
                           1
                                 144684
                                          4984422 3007.2
## - V5
                           1
                                 162574
                                          5002313 3008.3
## - V23
                           1
                                 183427
                                          5023165 3009.5
## - V32
                           1
                                 198920
                                          5038659 3010.5
## - V70
                                          5105202 3014.4
                           1
                                 265464
## - V3
                           1
                                 271644
                                          5111382 3014.7
## - `COMPLETION QUARTER`
                                          5574947 3040.5
                           1
                                 735209
## - `COMPLETION YEAR`
                           1
                                 797371
                                          5637110 3043.8
## - V8
                           1 103364180 108203918 3921.3
##
## Step: AIC=2998.78
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
      V1 + V2 + V3 + V4 + V5 + V6 + V8 + V9 + V10 + V12 + V13 +
##
```

```
##
       V15 + V16 + V17 + V19 + V20 + V22 + V23 + V26 + V28 + V29 +
       V30 + V32 + V34 + V35 + V37 + V38 + V39 + V40 + V41 + V42 +
##
       V45 + V47 + V48 + V49 + V50 + V51 + V52 + V53 + V54 + V55 +
##
       V56 + V57 + V58 + V59 + V62 + V63 + V64 + V65 + V66 + V67 +
##
##
       V68 + V69 + V70
##
##
                           Df Sum of Sq
                                               RSS
                                                       AIC
## - V39
                            1
                                   1785
                                           4846121 2996.9
## - V28
                            1
                                    2916
                                           4847252 2997.0
## - V30
                            1
                                   2932
                                           4847268 2997.0
## - V9
                            1
                                   3403
                                           4847738 2997.0
## - V49
                                           4849387 2997.1
                            1
                                   5051
## - V35
                            1
                                   10886
                                           4855222 2997.4
## - V41
                            1
                                   11012
                                           4855348 2997.5
## - V56
                            1
                                   11656
                                           4855991 2997.5
## - V10
                            1
                                   11958
                                           4856293 2997.5
## - V4
                            1
                                   13963
                                           4858298 2997.6
## - V67
                            1
                                   14453
                                           4858789 2997.7
## - V52
                            1
                                   15067
                                           4859403 2997.7
## - V69
                            1
                                   18332
                                           4862667 2997.9
## - V29
                            1
                                   22770
                                           4867105 2998.2
## - V57
                            1
                                   24325
                                           4868661 2998.3
## - V58
                            1
                                           4870318 2998.4
                                   25982
## - V12
                            1
                                   26376
                                           4870712 2998.4
## - V55
                                           4872336 2998.5
                            1
                                   28001
## <none>
                                           4844336 2998.8
## - V19
                            1
                                   33835
                                           4878171 2998.8
## - V38
                            1
                                   41194
                                           4885530 2999.3
## - V62
                            1
                                           4885711 2999.3
                                   41376
## - V68
                            1
                                   45789
                                           4890125 2999.6
## - V66
                            1
                                   48324
                                           4892660 2999.7
## - V20
                            1
                                   51122
                                           4895458 2999.9
## - V16
                            1
                                   52932
                                           4897267 3000.0
## - V50
                            1
                                   57878
                                           4902214 3000.3
## - V45
                            1
                                   58632
                                           4902968 3000.4
## - V65
                            1
                                   59469
                                           4903804 3000.4
## - V22
                            1
                                   59732
                                           4904068 3000.4
## - V40
                            1
                                   64251
                                           4908587 3000.7
## - V1
                            1
                                   66549
                                           4910885 3000.8
## - V54
                            1
                                   70379
                                           4914715 3001.1
## - V26
                            1
                                   70928
                                           4915263 3001.1
## - V34
                            1
                                   73876
                                           4918212 3001.3
## - V42
                            1
                                   81844
                                           4926180 3001.8
## - `START QUARTER`
                            1
                                   85212
                                           4929548 3002.0
## - V64
                            1
                                   86226
                                           4930561 3002.0
## - V37
                            1
                                   86351
                                           4930686 3002.0
## - V15
                            1
                                   90813
                                           4935149 3002.3
## - V59
                            1
                                  104786
                                           4949121 3003.1
## - V63
                            1
                                  106812
                                           4951148 3003.3
## - V47
                            1
                                  107464
                                           4951799 3003.3
## - V17
                            1
                                  116018
                                           4960354 3003.8
## - `START YEAR`
                            1
                                  129280
                                           4973615 3004.6
## - V53
                            1
                                 129824
                                           4974160 3004.6
## - V6
                            1
                                  131372
                                           4975708 3004.7
## - V51
                            1
                                  134095
                                           4978430 3004.9
## - V48
                            1
                                  137453
                                           4981789 3005.1
```

```
## - V2
                           1
                                140142
                                          4984477 3005.2
## - V5
                           1
                                          5011009 3006.8
                                166674
## - V23
                           1
                                178884
                                          5023220 3007.5
## - V13
                           1
                                          5041985 3008.7
                                197650
## - V70
                                260977
                           1
                                          5105313 3012.4
## - V3
                           1
                                267364
                                          5111700 3012.7
## - V32
                           1
                                292843
                                          5137178 3014.2
## - `COMPLETION QUARTER` 1 730642
                                          5574978 3038.5
## - `COMPLETION YEAR`
                                793234
                                          5637569 3041.8
                           1
## - V8
                           1 103461925 108306261 3919.6
##
## Step: AIC=2996.89
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
       V1 + V2 + V3 + V4 + V5 + V6 + V8 + V9 + V10 + V12 + V13 +
       V15 + V16 + V17 + V19 + V20 + V22 + V23 + V26 + V28 + V29 +
##
##
       V30 + V32 + V34 + V35 + V37 + V38 + V40 + V41 + V42 + V45 +
##
       V47 + V48 + V49 + V50 + V51 + V52 + V53 + V54 + V55 + V56 +
##
       V57 + V58 + V59 + V62 + V63 + V64 + V65 + V66 + V67 + V68 +
       V69 + V70
##
##
                          Df Sum of Sq
##
                                              RSS
                                                     AIC
## - V30
                           1
                                  2736
                                          4848857 2995.1
## - V9
                                  3043
                           1
                                          4849163 2995.1
## - V28
                           1
                                  3206
                                          4849327 2995.1
## - V49
                           1
                                          4849643 2995.1
                                  3523
## - V35
                           1
                                  9643
                                          4855764 2995.5
## - V41
                                          4856308 2995.5
                           1
                                 10187
## - V10
                           1
                                 10593
                                          4856714 2995.5
## - V67
                           1
                                          4859007 2995.7
                                 12886
## - V4
                           1
                                          4859646 2995.7
                                 13525
## - V56
                           1
                                 13748
                                          4859868 2995.7
## - V52
                           1
                                 13783
                                          4859904 2995.7
## - V69
                           1
                                 17138
                                          4863259 2995.9
## - V29
                           1
                                 21584
                                          4867704 2996.2
## - V12
                           1
                                 24677
                                          4870797 2996.4
## - V55
                           1
                                 27116
                                          4873237 2996.5
## - V57
                           1
                                 27549
                                          4873669 2996.6
## - V58
                           1
                                 30694
                                          4876815 2996.8
## <none>
                                          4846121 2996.9
## - V19
                           1
                                 40891
                                          4887011 2997.4
## - V68
                                          4895024 2997.9
                           1
                                 48903
## - V66
                           1
                                 48937
                                          4895058 2997.9
## - V62
                           1
                                          4897701 2998.0
                                 51581
## - V16
                           1
                                 52570
                                          4898691 2998.1
## - V50
                           1
                                 56094
                                          4902214 2998.3
## - V65
                           1
                                 61516
                                          4907637 2998.6
## - V40
                           1
                                 62856
                                          4908977 2998.7
## - V20
                           1
                                          4911352 2998.9
                                 65231
## - V1
                           1
                                 65677
                                          4911798 2998.9
## - V22
                                          4914202 2999.0
                           1
                                 68081
## - V54
                           1
                                 69500
                                          4915621 2999.1
## - V45
                           1
                                 69624
                                          4915744 2999.1
## - V34
                           1
                                          4918258 2999.3
                                 72138
## - V37
                           1
                                 84737
                                          4930858 3000.0
## - V42
                           1
                                 87431
                                          4933551 3000.2
## - V26
                           1
                                 89042
                                          4935162 3000.3
```

```
## - V15
                                         4937060 3000.4
                           1
                                 90940
## - V38
                           1
                                 94746
                                         4940866 3000.6
## - `START QUARTER`
                           1
                                 99203
                                         4945324 3000.9
## - V59
                                103544
                                         4949665 3001.2
                           1
## - V47
                           1
                                106516
                                         4952637 3001.3
## - V64
                           1
                                111278
                                         4957398 3001.6
## - V63
                           1
                                113657
                                         4959777 3001.8
## - V6
                           1
                                129727
                                         4975848 3002.7
## - V53
                                129734
                                         4975855 3002.7
                           1
## - `START YEAR`
                           1 139576
                                         4985697 3003.3
## - V2
                           1
                                141899
                                          4988020 3003.5
## - V48
                                         4996359 3004.0
                           1
                                150239
## - V5
                           1
                                164899
                                         5011020 3004.8
## - V17
                           1
                                170274
                                         5016395 3005.1
## - V23
                           1
                                178581
                                          5024702 3005.6
## - V51
                           1
                                221219
                                         5067339 3008.1
## - V3
                           1
                                267812
                                         5113933 3010.9
## - V70
                           1
                                316318
                                         5162438 3013.7
## - V32
                           1
                                320136
                                         5166257 3013.9
## - V13
                           1
                                388851
                                         5234972 3017.8
## - `COMPLETION QUARTER` 1
                                729503
                                         5575624 3036.5
## - `COMPLETION YEAR`
                         1 792200
                                         5638321 3039.9
## - V8
                           1 103511125 108357246 3917.7
##
## Step: AIC=2995.05
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
       V1 + V2 + V3 + V4 + V5 + V6 + V8 + V9 + V10 + V12 + V13 +
##
       V15 + V16 + V17 + V19 + V20 + V22 + V23 + V26 + V28 + V29 +
##
       V32 + V34 + V35 + V37 + V38 + V40 + V41 + V42 + V45 + V47 +
##
##
       V48 + V49 + V50 + V51 + V52 + V53 + V54 + V55 + V56 + V57 +
       V58 + V59 + V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 +
##
##
       V70
##
                          Df Sum of Sq
##
                                              RSS
                                                     ATC
## - V49
                           1
                                   907
                                         4849764 2993.1
## - V9
                           1
                                  2202
                                         4851058 2993.2
## - V28
                           1
                                  4913
                                         4853770 2993.4
## - V35
                           1
                                  8396
                                          4857252 2993.6
## - V41
                           1
                                  9318
                                          4858175 2993.6
## - V67
                           1
                                 10264
                                          4859120 2993.7
## - V52
                           1
                                 11169
                                         4860026 2993.7
## - V56
                           1
                                 11564
                                          4860421 2993.8
## - V4
                           1
                                 12790
                                         4861647 2993.8
## - V69
                           1
                                 16297
                                          4865153 2994.1
## - V12
                           1
                                 22442
                                          4871298 2994.4
## - V10
                           1
                                 24059
                                          4872916 2994.5
## - V57
                           1
                                 25173
                                          4874029 2994.6
## - V55
                           1
                                 28914
                                          4877771 2994.8
## - V58
                           1
                                 30114
                                          4878971 2994.9
                                          4848857 2995.1
## <none>
## - V19
                           1
                                 40098
                                         4888955 2995.5
## - V29
                           1
                                 44816
                                          4893673 2995.8
## - V66
                           1
                                 49281
                                         4898138 2996.1
## - V16
                           1
                                 50963
                                         4899820 2996.2
## - V62
                           1
                                 53502
                                          4902359 2996.3
## - V50
                           1
                                 64288
                                         4913145 2997.0
```

```
## - V1
                                          4913351 2997.0
                           1
                                  64494
## - V40
                           1
                                  65767
                                          4914624 2997.1
## - V65
                           1
                                  65812
                                          4914669 2997.1
## - V20
                           1
                                          4916339 2997.2
                                  67482
## - V68
                                          4916443 2997.2
                           1
                                  67586
## - V45
                           1
                                  68173
                                          4917029 2997.2
## - V22
                           1
                                  72987
                                          4921844 2997.5
## - V54
                           1
                                  76126
                                          4924982 2997.7
## - V34
                                  76658
                                          4925514 2997.7
                           1
## - V37
                           1
                                  82084
                                          4930941 2998.0
## - V42
                           1
                                  85157
                                          4934014 2998.2
## - V26
                                          4938930 2998.5
                           1
                                  90073
## - V15
                           1
                                  90594
                                          4939451 2998.6
## - V38
                           1
                                 92010
                                          4940867 2998.6
## - `START QUARTER`
                           1
                                 99646
                                          4948503 2999.1
## - V59
                           1
                                104695
                                          4953551 2999.4
## - V47
                           1
                                110791
                                          4959648 2999.8
## - V64
                           1
                                111878
                                          4960735 2999.8
## - V6
                           1
                                127703
                                          4976560 3000.8
## - V53
                           1
                                128158
                                          4977015 3000.8
## - V63
                           1
                                136426
                                          4985283 3001.3
## - `START YEAR`
                           1
                                137208
                                          4986065 3001.3
## - V2
                           1
                                142323
                                          4991180 3001.6
## - V5
                           1
                                162593
                                          5011449 3002.9
## - V17
                           1
                                168796
                                          5017652 3003.2
## - V48
                           1
                                180599
                                          5029456 3003.9
## - V23
                           1
                                191092
                                          5039949 3004.5
                                          5067470 3006.2
## - V51
                           1
                                218613
## - V3
                           1
                                          5114974 3008.9
                                266117
## - V32
                                          5168936 3012.0
                           1
                                320080
## - V70
                           1
                                321917
                                          5170774 3012.1
## - V13
                           1
                                390804
                                          5239661 3016.1
## - `COMPLETION QUARTER` 1 727755
                                          5576612 3034.6
## - `COMPLETION YEAR`
                                789981
                           1
                                          5638838 3037.9
## - V8
                           1 103523462 108372319 3915.8
##
## Step: AIC=2993.11
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
##
       V1 + V2 + V3 + V4 + V5 + V6 + V8 + V9 + V10 + V12 + V13 +
##
       V15 + V16 + V17 + V19 + V20 + V22 + V23 + V26 + V28 + V29 +
      V32 + V34 + V35 + V37 + V38 + V40 + V41 + V42 + V45 + V47 +
##
##
       V48 + V50 + V51 + V52 + V53 + V54 + V55 + V56 + V57 + V58 +
##
       V59 + V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70
##
##
                          Df Sum of Sq
                                              RSS
                                                     AIC
## - V9
                           1
                                  2774
                                          4852538 2991.3
## - V28
                           1
                                  4865
                                          4854629 2991.4
## - V41
                           1
                                  8450
                                          4858214 2991.6
## - V67
                           1
                                  9363
                                          4859127 2991.7
## - V56
                           1
                                  11085
                                          4860849 2991.8
## - V52
                           1
                                  12507
                                          4862271 2991.9
## - V4
                           1
                                          4863017 2991.9
                                  13253
## - V35
                           1
                                  14057
                                          4863821 2992.0
## - V12
                           1
                                  21932
                                          4871696 2992.5
## - V69
                           1
                                  23503
                                          4873267 2992.5
## - V57
                           1
                                  26749
                                          4876513 2992.7
```

```
## - V55
                                  28062
                            1
                                          4877826 2992.8
## - V10
                            1
                                  32708
                                          4882472 2993.1
## <none>
                                          4849764 2993.1
## - V19
                            1
                                  39787
                                          4889551 2993.5
                                          4890366 2993.6
## - V58
                                  40602
                            1
## - V16
                            1
                                  51017
                                          4900781 2994.2
## - V66
                            1
                                  54947
                                          4904711 2994.5
## - V62
                            1
                                  56851
                                          4906615 2994.6
## - V29
                                  62077
                                          4911841 2994.9
                            1
## - V1
                            1
                                  63861
                                          4913625 2995.0
## - V50
                            1
                                  65024
                                          4914788 2995.1
## - V20
                            1
                                  66605
                                          4916369 2995.2
## - V45
                            1
                                  67315
                                          4917079 2995.2
## - V40
                            1
                                  70183
                                          4919947 2995.4
## - V65
                            1
                                  70506
                                          4920270 2995.4
## - V22
                            1
                                  73682
                                          4923446 2995.6
## - V68
                            1
                                  77961
                                          4927725 2995.8
## - V54
                            1
                                  80260
                                          4930023 2996.0
## - V37
                            1
                                  81285
                                          4931049 2996.0
## - V34
                            1
                                  82170
                                          4931934 2996.1
## - V26
                            1
                                  89270
                                          4939034 2996.5
## - V38
                                          4947998 2997.1
                            1
                                  98235
## - V42
                                  99680
                                          4949444 2997.2
                            1
## - `START QUARTER`
                            1
                                 100217
                                          4949981 2997.2
## - V15
                                          4950947 2997.2
                            1
                                 101183
## - V59
                            1
                                 105072
                                          4954836 2997.5
## - V64
                            1
                                 112319
                                          4962083 2997.9
## - V47
                            1
                                 125224
                                          4974988 2998.7
## - V6
                            1
                                 127154
                                          4976918 2998.8
## - V63
                                          4985374 2999.3
                            1
                                 135610
## - `START YEAR`
                            1
                                 141194
                                          4990958 2999.6
## - V2
                            1
                                 142511
                                          4992275 2999.7
## - V5
                            1
                                 162397
                                          5012161 3000.9
## - V53
                                 164669
                                          5014433 3001.0
                            1
## - V17
                            1
                                 167891
                                          5017655 3001.2
## - V48
                            1
                                 216386
                                          5066150 3004.1
## - V51
                            1
                                 221173
                                          5070937 3004.4
## - V23
                            1
                                 226433
                                          5076196 3004.7
## - V3
                            1
                                 267943
                                          5117707 3007.1
## - V32
                            1
                                 320679
                                          5170443 3010.1
## - V70
                                          5181595 3010.8
                            1
                                 331831
## - V13
                            1
                                 390843
                                          5240607 3014.1
## - `COMPLETION QUARTER`
                           1
                                 731129
                                          5580893 3032.8
## - `COMPLETION YEAR`
                            1
                                 789247
                                          5639011 3035.9
## - V8
                            1 103573044 108422808 3913.9
##
## Step: AIC=2991.28
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
##
       V1 + V2 + V3 + V4 + V5 + V6 + V8 + V10 + V12 + V13 + V15 +
       V16 + V17 + V19 + V20 + V22 + V23 + V26 + V28 + V29 + V32 +
##
       V34 + V35 + V37 + V38 + V40 + V41 + V42 + V45 + V47 + V48 +
##
##
       V50 + V51 + V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 +
##
       V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70
##
##
                           Df Sum of Sq
                                               RSS
                                                      ATC
## - V28
                            1
                                   2869
                                          4855408 2989.5
```

## - V41	1	8516	4861054	2989 8
## - V56	1	8745	4861284	
## - V67	1	10414	4862952	
## - V52	1	13043	4865582	
## - V35	1	13589	4866127	
## - V4	1	14339		
## - V69	1	22920		
## - V57	1	24000	4876538	
## - V55	1	27572	4880110	
## - V10	1	31338	4883876	
## <none></none>			4852538	
## - V12	1	33884		
## - V19	1	38202		
## - V58	1	39617		
## - V16	1	48511	4901050	
## - V66	1	53155	4905694	2992.5
## - V62	1	54618	4907157	2992.6
## - V29	1	60244	4912782	2992.9
## - V50	1	62570	4915108	2993.1
## - V20	1	63834	4916372	2993.2
## - V1	1	67524	4920062	2993.4
## - V65	1	69862	4922400	2993.5
## - V40	1	70442	4922981	2993.6
## - V22	1	71973	4924512	2993.7
## - V45	1	74133	4926671	2993.8
## - V54	1	77660	4930199	2994.0
## - V68	1	78645	4931183	2994.1
## - V37	1	81228	4933767	2994.2
## - V34	1	81238	4933777	2994.2
## - V42	1	97620	4950158	2995.2
## - V38	1	98047		
## - V15	1	98504	4951043	
## - V26	1	100178		
## - `START QUARTER`	1			
## - V59	1			
## - V64	1			
## - V47	1			
## - V6	1			
## - V63	1			
## - V2	1			
## - `START YEAR`	1			
## - V5	1			
## - V53	1			
## - V17	1			
## - V48	1			
## - V23	1			
## - V51	1			
## - V3	1			
## - V70	1			
## - V32	1			
## - V13	1	390478	5243017	3012.3
## - `COMPLETION QUARTER`	1	736364	5588903	3031.2
## - `COMPLETION YEAR`	1	805224	5657762	3034.9
## - V8	1	103573147	108425686	3911.9
##				
## Step: AIC=2989.46				
I				

```
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
       V1 + V2 + V3 + V4 + V5 + V6 + V8 + V10 + V12 + V13 + V15 +
##
       V16 + V17 + V19 + V20 + V22 + V23 + V26 + V29 + V32 + V34 +
##
       V35 + V37 + V38 + V40 + V41 + V42 + V45 + V47 + V48 + V50 +
##
       V51 + V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V62 +
##
##
       V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70
##
##
                           Df Sum of Sq
                                               RSS
                                                      ATC
## - V56
                                   8558
                                           4863966 2988.0
                            1
## - V41
                            1
                                   9269
                                           4864677 2988.0
## - V67
                            1
                                   9432
                                           4864840 2988.0
## - V52
                            1
                                  11919
                                           4867327 2988.2
## - V35
                            1
                                  12364
                                           4867771 2988.2
## - V4
                            1
                                  13911
                                           4869319 2988.3
## - V69
                            1
                                  21363
                                           4876771 2988.8
## - V57
                            1
                                  23252
                                           4878660 2988.9
## - V12
                            1
                                  31154
                                           4886562 2989.4
## - V55
                            1
                                  31473
                                           4886881 2989.4
## <none>
                                           4855408 2989.5
## - V10
                            1
                                  35725
                                           4891133 2989.6
## - V58
                            1
                                  38780
                                           4894188 2989.8
## - V19
                            1
                                  39082
                                           4894490 2989.8
## - V16
                            1
                                           4904689 2990.5
                                  49282
## - V66
                            1
                                  51095
                                           4906503 2990.6
## - V62
                                  59789
                                           4915197 2991.1
                            1
## - V50
                            1
                                  61488
                                           4916896 2991.2
## - V20
                            1
                                  61822
                                           4917230 2991.2
## - V1
                            1
                                  65987
                                           4921395 2991.5
## - V29
                            1
                                           4922029 2991.5
                                  66621
## - V40
                            1
                                  67976
                                           4923384 2991.6
## - V65
                            1
                                  68167
                                           4923575 2991.6
## - V45
                            1
                                  71354
                                           4926762 2991.8
## - V68
                            1
                                  75778
                                           4931185 2992.1
## - V54
                            1
                                  76725
                                           4932133 2992.1
## - V37
                            1
                                  78500
                                           4933908 2992.2
## - V22
                            1
                                  81969
                                           4937377 2992.4
## - V34
                            1
                                  82291
                                           4937699 2992.4
## - V38
                            1
                                  95672
                                           4951080 2993.3
## - V15
                            1
                                  96002
                                           4951409 2993.3
## - V26
                            1
                                  98766
                                           4954174 2993.4
## - V42
                            1
                                 102650
                                           4958058 2993.7
## - `START QUARTER`
                            1
                                 108031
                                           4963439 2994.0
## - V64
                            1
                                 120535
                                           4975943 2994.7
## - V6
                            1
                                 129083
                                           4984491 2995.2
## - V59
                            1
                                 132702
                                           4988110 2995.5
## - V47
                            1
                                 135136
                                           4990544 2995.6
## - V63
                            1
                                 138492
                                           4993900 2995.8
## - `START YEAR`
                            1
                                 140777
                                           4996185 2995.9
## - V2
                            1
                                 141512
                                           4996920 2996.0
## - V5
                            1
                                 162507
                                           5017914 2997.2
## - V17
                            1
                                 166903
                                           5022311 2997.5
## - V53
                            1
                                 179201
                                           5034609 2998.2
## - V48
                            1
                                           5074097 3000.5
                                 218689
## - V23
                            1
                                 227657
                                           5083064 3001.1
## - V51
                            1
                                 230478
                                           5085886 3001.2
## - V3
                            1
                                 266635
                                           5122043 3003.3
```

```
## - V70
                                 372907
                                          5228315 3009.4
                           1
## - V32
                            1
                                 386276
                                          5241684 3010.2
## - V13
                            1
                                 388374
                                          5243782 3010.3
## - `COMPLETION QUARTER`
                                733563
                                          5588971 3029.2
                           1
## - `COMPLETION YEAR`
                                 804367
                                          5659775 3033.0
                           1
## - V8
                            1 103666911 108522318 3910.2
##
## Step: AIC=2987.98
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
       V1 + V2 + V3 + V4 + V5 + V6 + V8 + V10 + V12 + V13 + V15 +
##
##
       V16 + V17 + V19 + V20 + V22 + V23 + V26 + V29 + V32 + V34 +
      V35 + V37 + V38 + V40 + V41 + V42 + V45 + V47 + V48 + V50 +
##
##
       V51 + V52 + V53 + V54 + V55 + V57 + V58 + V59 + V62 + V63 +
##
       V64 + V65 + V66 + V67 + V68 + V69 + V70
##
##
                           Df Sum of Sq
                                              RSS
                                                      AIC
## - V52
                            1
                                   8500
                                          4872466 2986.5
## - V41
                            1
                                   8668
                                          4872634 2986.5
## - V35
                            1
                                  12644
                                          4876610 2986.7
## - V4
                           1
                                  13215
                                          4877181 2986.8
## - V57
                            1
                                  18578
                                          4882544 2987.1
## - V67
                           1
                                  26397
                                          4890363 2987.6
## - V55
                            1
                                  29393
                                          4893359 2987.8
## - V69
                            1
                                  30224
                                          4894190 2987.8
                                          4863966 2988.0
## <none>
## - V58
                           1
                                  33889
                                          4897855 2988.0
## - V19
                            1
                                  38856
                                          4902822 2988.3
## - V16
                            1
                                  41295
                                          4905261 2988.5
## - V10
                            1
                                  43839
                                          4907805 2988.6
## - V12
                                  44489
                                          4908455 2988.7
                           1
## - V62
                           1
                                  52627
                                          4916592 2989.2
## - V20
                            1
                                  58881
                                          4922847 2989.6
## - V1
                           1
                                  60480
                                          4924446 2989.6
## - V54
                                          4932154 2990.1
                            1
                                  68188
## - V45
                           1
                                  68886
                                          4932852 2990.2
## - V66
                            1
                                  71586
                                          4935552 2990.3
## - V34
                            1
                                  73938
                                          4937904 2990.5
## - V65
                            1
                                  76057
                                          4940023 2990.6
## - V29
                            1
                                  77378
                                          4941344 2990.7
## - V68
                            1
                                  77637
                                          4941603 2990.7
## - V22
                                          4942371 2990.7
                            1
                                  78405
## - V50
                            1
                                  81219
                                          4945185 2990.9
## - V37
                            1
                                  84676
                                          4948642 2991.1
## - V15
                            1
                                  87560
                                          4951526 2991.3
## - V38
                            1
                                  89637
                                          4953603 2991.4
## - V26
                            1
                                  93252
                                          4957218 2991.6
## - V40
                            1
                                  95133
                                          4959099 2991.7
## - `START QUARTER`
                            1
                                 105431
                                          4969397 2992.3
## - V42
                            1
                                 111449
                                          4975415 2992.7
## - V64
                            1
                                 112543
                                          4976509 2992.8
## - V6
                            1
                                 123422
                                          4987388 2993.4
## - V59
                            1
                                 124147
                                          4988113 2993.5
## - V63
                           1
                                 138597
                                          5002563 2994.3
## - V2
                           1
                                 147292
                                          5011258 2994.8
## - `START YEAR`
                           1
                                 149490
                                          5013456 2995.0
## - V5
                            1
                                 155976
                                          5019942 2995.4
```

```
## - V47
                                         5022854 2995.5
                           1
                                158888
## - V53
                           1
                                         5040194 2996.5
                                176228
## - V17
                           1
                                179615
                                         5043581 2996.7
## - V48
                                         5078114 2998.8
                           1
                                214148
## - V23
                                222423
                           1
                                         5086389 2999.3
## - V51
                           1
                                222764
                                         5086729 2999.3
## - V3
                           1
                                274543
                                         5138509 3002.3
## - V70
                           1
                                         5230782 3007.6
                                366816
## - V13
                                380392
                                         5244358 3008.3
                           1
## - V32
                           1 422402
                                         5286368 3010.7
## - `COMPLETION QUARTER` 1
                                784327
                                         5648293 3030.4
## - `COMPLETION YEAR`
                           1 832664
                                         5696630 3032.9
## - V8
                           1 103777304 108641270 3908.5
##
## Step: AIC=2986.5
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
       V1 + V2 + V3 + V4 + V5 + V6 + V8 + V10 + V12 + V13 + V15 +
       V16 + V17 + V19 + V20 + V22 + V23 + V26 + V29 + V32 + V34 +
##
       V35 + V37 + V38 + V40 + V41 + V42 + V45 + V47 + V48 + V50 +
##
##
       V51 + V53 + V54 + V55 + V57 + V58 + V59 + V62 + V63 + V64 +
      V65 + V66 + V67 + V68 + V69 + V70
##
##
                                                     AIC
##
                          Df Sum of Sq
                                             RSS
## - V41
                           1
                                  7813
                                         4880280 2985.0
## - V4
                                         4885942 2985.3
                           1
                                 13475
## - V57
                           1
                                 15020
                                         4887486 2985.4
## - V35
                           1
                                 16985
                                         4889451 2985.5
## - V58
                           1
                                 26197
                                         4898663 2986.1
## - V67
                           1
                                         4905379 2986.5
                                 32913
## <none>
                                         4872466 2986.5
## - V19
                           1
                                 36659
                                         4909125 2986.7
## - V16
                           1
                                 40821
                                         4913287 2987.0
                                 46863
## - V62
                           1
                                         4919330 2987.3
## - V10
                                         4922051 2987.5
                           1
                                 49584
## - V20
                           1
                                 56754
                                         4929220 2987.9
## - V55
                           1
                                 57321
                                         4929787 2988.0
## - V54
                           1
                                 61375
                                         4933841 2988.2
## - V34
                           1
                                 67455
                                         4939921 2988.6
## - V1
                           1
                                 69302
                                         4941769 2988.7
## - V12
                           1
                                 70834
                                         4943300 2988.8
## - V69
                                         4944601 2988.9
                           1
                                 72134
## - V45
                           1
                                 73659
                                         4946125 2989.0
## - V22
                           1
                                 77048
                                         4949514 2989.2
## - V65
                           1
                                 78460
                                          4950926 2989.2
## - V15
                           1
                                 80406
                                         4952873 2989.4
## - V38
                           1
                                 83123
                                         4955589 2989.5
## - V37
                           1
                                 83314
                                         4955781 2989.5
## - V66
                           1
                                         4958855 2989.7
                                 86388
## - V29
                           1
                                 89656
                                         4962123 2989.9
## - V50
                           1
                                 90760
                                         4963226 2990.0
## - V26
                           1
                                 93903
                                         4966369 2990.2
## - V40
                           1
                                 99954
                                         4972420 2990.5
## - V68
                                         4979052 2990.9
                           1
                                106586
## - `START QUARTER`
                           1
                                109994
                                         4982460 2991.1
## - V42
                           1
                                111389
                                         4983856 2991.2
## - V64
                           1
                                111612
                                         4984078 2991.2
```

```
## - V6
                                120568
                                          4993034 2991.8
                           1
## - V63
                                          5002617 2992.3
                           1
                                130151
## - V59
                           1
                                131658
                                          5004124 2992.4
## - V2
                                146100
                                          5018567 2993.3
                           1
## - `START YEAR`
                                150808
                                          5023275 2993.6
                           1
## - V47
                           1
                                151820
                                          5024286 2993.6
## - V5
                           1
                                159985
                                          5032451 2994.1
## - V17
                           1
                                191637
                                          5064103 2996.0
## - V53
                                208414
                                          5080880 2996.9
                           1
## - V23
                           1
                                215205
                                          5087672 2997.3
## - V48
                           1
                                218877
                                          5091344 2997.5
## - V51
                           1
                                246465
                                          5118931 2999.2
## - V3
                           1
                                274128
                                          5146595 3000.8
## - V70
                           1
                                361274
                                          5233740 3005.7
## - V13
                           1
                                372038
                                          5244505 3006.4
## - V32
                           1
                                491816
                                          5364283 3013.1
## - `COMPLETION QUARTER`
                           1
                                777918
                                          5650384 3028.5
## - `COMPLETION YEAR`
                           1
                                843152
                                          5715618 3031.9
## - V8
                           1 103784540 108657006 3906.6
##
## Step: AIC=2984.97
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
       V1 + V2 + V3 + V4 + V5 + V6 + V8 + V10 + V12 + V13 + V15 +
##
       V16 + V17 + V19 + V20 + V22 + V23 + V26 + V29 + V32 + V34 +
##
       V35 + V37 + V38 + V40 + V42 + V45 + V47 + V48 + V50 + V51 +
##
      V53 + V54 + V55 + V57 + V58 + V59 + V62 + V63 + V64 + V65 +
##
      V66 + V67 + V68 + V69 + V70
##
##
##
                          Df Sum of Sq
                                              RSS
                                                     AIC
## - V4
                           1
                                  13545
                                          4893825 2983.8
## - V57
                           1
                                          4895607 2983.9
                                 15327
## - V35
                           1
                                 19162
                                          4899441 2984.1
## - V58
                           1
                                  23820
                                          4904100 2984.4
## <none>
                                          4880280 2985.0
## - V67
                           1
                                  34243
                                          4914522 2985.0
## - V19
                           1
                                  34270
                                          4914550 2985.1
## - V16
                           1
                                  35044
                                          4915324 2985.1
## - V10
                           1
                                  45423
                                          4925703 2985.7
## - V62
                           1
                                  48665
                                          4928945 2985.9
## - V55
                           1
                                  54023
                                          4934303 2986.2
## - V54
                                          4934927 2986.3
                           1
                                  54647
## - V20
                           1
                                  57309
                                          4937589 2986.4
## - V34
                           1
                                  63133
                                          4943413 2986.8
## - V45
                           1
                                  68821
                                          4949101 2987.1
## - V12
                           1
                                  71436
                                          4951716 2987.3
## - V65
                           1
                                  74375
                                          4954655 2987.5
## - V1
                           1
                                  74882
                                          4955162 2987.5
## - V69
                           1
                                  75761
                                          4956040 2987.5
## - V37
                           1
                                  75889
                                          4956169 2987.6
## - V38
                           1
                                  78599
                                          4958878 2987.7
## - V29
                           1
                                  83031
                                          4963311 2988.0
## - V26
                           1
                                  86543
                                          4966822 2988.2
                                  86592
## - V50
                           1
                                          4966872 2988.2
## - V15
                           1
                                  87065
                                          4967345 2988.2
## - V22
                           1
                                  90791
                                          4971071 2988.4
## - V66
                           1
                                  97318
                                          4977598 2988.8
```

```
## - `START QUARTER`
                           1
                                103204
                                         4983484 2989.2
## - V64
                           1
                                104208
                                         4984488 2989.2
## - V68
                                106764
                           1
                                         4987044 2989.4
## - V40
                           1
                                108967
                                         4989247 2989.5
## - V6
                                113179
                                         4993459 2989.8
                           1
## - V42
                           1
                                115370
                                         4995650 2989.9
## - V63
                           1
                                122410
                                         5002689 2990.3
## - V59
                           1
                                126505
                                         5006785 2990.6
## - V2
                                141076
                                         5021356 2991.4
                           1
## - V47
                           1
                                145722
                                         5026002 2991.7
## - `START YEAR`
                           1
                                146654
                                         5026934 2991.8
## - V5
                           1
                                155154
                                         5035434 2992.3
## - V17
                           1
                                185170
                                         5065450 2994.0
## - V53
                           1
                                200627
                                         5080907 2994.9
## - V48
                           1
                                          5091554 2995.6
                                211274
## - V23
                           1
                                220048
                                         5100328 2996.1
## - V51
                           1
                                239683
                                          5119963 2997.2
## - V3
                           1
                                266984
                                         5147264 2998.8
## - V70
                           1
                                357133
                                         5237413 3003.9
## - V13
                           1
                                365588
                                         5245868 3004.4
## - V32
                           1
                                488741
                                         5369021 3011.3
## - `COMPLETION QUARTER` 1
                                771083
                                         5651363 3026.5
## - `COMPLETION YEAR`
                           1
                                         5716143 3029.9
                                835863
## - V8
                           1 104219046 109099326 3905.8
##
## Step: AIC=2983.8
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
       V1 + V2 + V3 + V5 + V6 + V8 + V10 + V12 + V13 + V15 + V16 +
##
       V17 + V19 + V20 + V22 + V23 + V26 + V29 + V32 + V34 + V35 +
##
       V37 + V38 + V40 + V42 + V45 + V47 + V48 + V50 + V51 + V53 +
##
      V54 + V55 + V57 + V58 + V59 + V62 + V63 + V64 + V65 + V66 +
##
       V67 + V68 + V69 + V70
##
##
                          Df Sum of Sq
##
                                              RSS
                                                     ATC
## - V57
                           1
                                 17256
                                         4911081 2982.8
## - V35
                           1
                                 18569
                                         4912394 2982.9
## - V58
                           1
                                 21788
                                         4915613 2983.1
## <none>
                                         4893825 2983.8
## - V67
                           1
                                 36161
                                         4929986 2984.0
## - V16
                           1
                                 37593
                                         4931418 2984.1
## - V19
                           1
                                 38118
                                         4931943 2984.1
## - V10
                           1
                                 45360
                                          4939185 2984.5
## - V62
                           1
                                 47868
                                         4941693 2984.7
## - V55
                           1
                                 50183
                                          4944008 2984.8
## - V54
                           1
                                 53751
                                          4947576 2985.0
## - V20
                           1
                                 60780
                                          4954605 2985.5
## - V1
                           1
                                 61823
                                          4955648 2985.5
## - V34
                           1
                                 64919
                                         4958744 2985.7
## - V12
                           1
                                 66910
                                          4960736 2985.8
## - V45
                           1
                                 67084
                                          4960910 2985.8
## - V65
                           1
                                 72088
                                         4965913 2986.1
## - V37
                           1
                                 75120
                                         4968945 2986.3
## - V69
                           1
                                 76878
                                         4970703 2986.4
## - V38
                           1
                                         4974916 2986.7
                                 81091
## - V29
                           1
                                 82729
                                         4976555 2986.8
## - V26
                           1
                                 85076
                                         4978901 2986.9
```

```
## - V50
                                         4982228 2987.1
                           1
                                 88403
## - V22
                           1
                                 90848
                                         4984673 2987.3
## - V15
                           1
                                 91775
                                         4985600 2987.3
## - V66
                                93504
                                         4987329 2987.4
                           1
## - `START QUARTER`
                                101455
                                         4995280 2987.9
                           1
## - V64
                           1
                               101723
                                         4995548 2987.9
## - V68
                           1
                                103522
                                         4997347 2988.0
## - V40
                           1
                               103797
                                         4997622 2988.0
## - V6
                                         5000691 2988.2
                           1
                                106866
## - V42
                           1 117258
                                         5011083 2988.8
## - V63
                           1
                                117476
                                         5011301 2988.8
## - V59
                           1
                               127117
                                         5020942 2989.4
## - V47
                           1
                                143224
                                         5037049 2990.4
## - `START YEAR`
                           1 147791
                                         5041617 2990.6
## - V5
                           1
                                148341
                                         5042166 2990.7
## - V17
                           1
                                179123
                                         5072948 2992.5
## - V53
                           1
                                197562
                                         5091387 2993.6
## - V48
                           1
                                207880
                                         5101705 2994.2
## - V23
                           1
                                217991
                                         5111816 2994.7
## - V51
                           1
                                248544
                                         5142369 2996.5
## - V3
                           1
                                285389
                                         5179214 2998.6
## - V2
                           1
                                308108
                                         5201933 2999.9
## - V70
                           1
                                364920
                                         5258745 3003.2
## - V13
                           1
                               368493
                                         5262318 3003.4
## - V32
                                         5380391 3009.9
                           1
                               486566
## - `COMPLETION QUARTER` 1 771214
                                         5665039 3025.3
## - `COMPLETION YEAR`
                         1 824415
                                         5718240 3028.0
## - V8
                           1 104361332 109255157 3904.2
##
## Step: AIC=2982.84
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
##
       V1 + V2 + V3 + V5 + V6 + V8 + V10 + V12 + V13 + V15 + V16 +
##
      V17 + V19 + V20 + V22 + V23 + V26 + V29 + V32 + V34 + V35 +
      V37 + V38 + V40 + V42 + V45 + V47 + V48 + V50 + V51 + V53 +
##
      V54 + V55 + V58 + V59 + V62 + V63 + V64 + V65 + V66 + V67 +
##
      V68 + V69 + V70
##
##
                          Df Sum of Sq
##
                                             RSS
                                                    AIC
## - V58
                           1
                                 15230
                                         4926311 2981.8
## - V35
                           1
                                 19192
                                         4930273 2982.0
## - V67
                           1
                                 22586
                                         4933667 2982.2
## - V19
                           1
                                 27023
                                         4938104 2982.5
## - V16
                           1
                                 32160
                                         4943241 2982.8
## <none>
                                         4911081 2982.8
## - V54
                           1
                                 45581
                                         4956662 2983.6
## - V34
                           1
                                 52127
                                         4963208 2984.0
## - V10
                           1
                                 53646
                                         4964727 2984.1
## - V20
                           1
                                 57294
                                         4968375 2984.3
## - V62
                           1
                                 60899
                                         4971980 2984.5
## - V1
                                         4973945 2984.6
                           1
                                 62864
## - V37
                           1
                                 64587
                                         4975668 2984.7
## - V38
                           1
                                         4977084 2984.8
                                 66003
## - V12
                           1
                                 67099
                                         4978180 2984.9
## - V65
                           1
                                 72657
                                         4983739 2985.2
## - V22
                           1
                                 76021
                                         4987102 2985.4
## - V55
                           1
                                 76232
                                         4987313 2985.4
```

```
## - V45
                                 80995
                                         4992077 2985.7
                           1
## - V15
                           1
                                         4997393 2986.0
                                 86312
## - V69
                           1
                                 88545
                                         4999626 2986.1
## - V66
                           1
                                 90299
                                         5001380 2986.3
## - V26
                                 97415
                                         5008496 2986.7
                           1
## - V50
                           1
                                100165
                                         5011246 2986.8
## - V40
                           1
                                101423
                                         5012504 2986.9
## - V29
                           1
                                101756
                                         5012837 2986.9
## - V68
                                102148
                                         5013229 2987.0
                           1
## - V6
                           1
                                105030
                                         5016112 2987.1
## - V64
                           1
                                110974
                                         5022055 2987.5
## - V42
                           1
                             111446
                                         5022527 2987.5
## - `START QUARTER`
                           1
                                113791
                                         5024873 2987.6
## - V59
                           1 117077
                                         5028159 2987.8
## - `START YEAR`
                           1
                                135327
                                         5046408 2988.9
## - V47
                           1
                                137866
                                         5048947 2989.1
## - V63
                           1
                                146851
                                         5057932 2989.6
## - V5
                           1
                                148988
                                         5060069 2989.7
## - V17
                           1
                                202344
                                         5113425 2992.8
## - V53
                           1
                                206856
                                         5117937 2993.1
## - V23
                           1
                                207381
                                         5118462 2993.1
## - V51
                           1
                                231901
                                         5142982 2994.5
## - V48
                           1
                                261354
                                         5172435 2996.2
## - V3
                           1
                                286160
                                         5197241 2997.7
## - V2
                                         5219231 2998.9
                           1
                                308150
## - V13
                           1
                                354089
                                         5265170 3001.5
## - V70
                                354149
                                         5265230 3001.5
                           1
## - V32
                                546457
                                         5457538 3012.2
                           1
## - `COMPLETION QUARTER` 1 793191
                                         5704272 3025.3
## - `COMPLETION YEAR`
                           1
                                         5736443 3027.0
                                825362
## - V8
                           1 104365411 109276492 3902.3
##
## Step: AIC=2981.76
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
##
      V1 + V2 + V3 + V5 + V6 + V8 + V10 + V12 + V13 + V15 + V16 +
      V17 + V19 + V20 + V22 + V23 + V26 + V29 + V32 + V34 + V35 +
##
      V37 + V38 + V40 + V42 + V45 + V47 + V48 + V50 + V51 + V53 +
##
##
      V54 + V55 + V59 + V62 + V63 + V64 + V65 + V66 + V67 + V68 +
##
      V69 + V70
##
                          Df Sum of Sq
##
                                             RSS
                                                    AIC
## - V19
                           1
                                 19401
                                         4945712 2980.9
## - V35
                           1
                                 22677
                                         4948988 2981.1
## - V67
                           1
                                 26335
                                         4952646 2981.3
## - V16
                           1
                                 27737
                                         4954048 2981.4
## <none>
                                         4926311 2981.8
## - V54
                           1
                                 40010
                                         4966321 2982.2
## - V10
                           1
                                 46077
                                         4972389 2982.5
## - V34
                           1
                                 50135
                                         4976446 2982.8
## - V62
                           1
                                 50439
                                         4976750 2982.8
## - V12
                           1
                                 52607
                                         4978918 2982.9
## - V20
                           1
                                 52999
                                         4979310 2982.9
## - V37
                           1
                                 56249
                                         4982560 2983.1
## - V65
                           1
                                 57619
                                         4983930 2983.2
## - V55
                           1
                                 61313
                                         4987624 2983.4
## - V22
                           1
                                 61377
                                         4987689 2983.4
```

```
## - V1
                           1
                                 61953
                                         4988264 2983.5
## - V45
                                         4992887 2983.7
                           1
                                 66575
## - V38
                           1
                                 71971
                                         4998282 2984.1
## - V69
                           1
                                 73357
                                         4999668 2984.2
## - V66
                                         5001428 2984.3
                           1
                                 75117
## - V26
                           1
                                 82299
                                         5008611 2984.7
## - V40
                           1
                                 86541
                                          5012852 2984.9
## - V68
                           1
                                 86960
                                         5013271 2985.0
## - V29
                                 90874
                                         5017186 2985.2
                           1
## - V64
                           1
                                 95893
                                         5022204 2985.5
## - V50
                           1
                                 96902
                                         5023213 2985.5
## - V15
                           1
                                 97415
                                         5023726 2985.6
## - `START QUARTER`
                           1
                                 99086
                                          5025397 2985.7
## - V42
                           1
                                108195
                                          5034506 2986.2
## - V6
                           1
                                109913
                                          5036224 2986.3
## - V59
                           1
                                117634
                                          5043945 2986.8
## - V63
                           1
                                134518
                                          5060829 2987.8
## - V5
                           1
                                150553
                                          5076864 2988.7
## - `START YEAR`
                           1
                                155452
                                          5081763 2989.0
## - V47
                           1
                                171930
                                          5098241 2990.0
## - V23
                           1
                                196728
                                         5123039 2991.4
## - V53
                           1
                                201259
                                         5127570 2991.7
## - V17
                           1
                                212966
                                         5139277 2992.3
## - V51
                           1
                                238159
                                         5164470 2993.8
## - V48
                                         5172482 2994.2
                           1
                                246171
## - V3
                                         5209922 2996.4
                           1
                                283611
## - V2
                                306307
                           1
                                         5232618 2997.7
## - V13
                           1
                                353521
                                         5279833 3000.3
## - V70
                           1
                                385032
                                         5311343 3002.1
## - V32
                           1
                                585902
                                         5512213 3013.1
## - `COMPLETION QUARTER` 1 782727
                                         5709038 3023.6
## - `COMPLETION YEAR`
                           1
                                829213
                                         5755524 3026.0
## - V8
                           1 104416950 109343261 3900.4
##
## Step: AIC=2980.93
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
       V1 + V2 + V3 + V5 + V6 + V8 + V10 + V12 + V13 + V15 + V16 +
##
##
       V17 + V20 + V22 + V23 + V26 + V29 + V32 + V34 + V35 + V37 +
##
       V38 + V40 + V42 + V45 + V47 + V48 + V50 + V51 + V53 + V54 +
##
       V55 + V59 + V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 +
      V70
##
##
##
                          Df Sum of Sq
                                              RSS
                                                     AIC
## - V67
                           1
                                 17166
                                          4962878 2980.0
## - V16
                           1
                                 17814
                                          4963527 2980.0
## - V35
                           1
                                 19356
                                          4965068 2980.1
## - V54
                           1
                                 26490
                                          4972202 2980.5
## - V34
                           1
                                 31759
                                         4977471 2980.8
## <none>
                                          4945712 2980.9
## - V20
                           1
                                 33924
                                          4979636 2981.0
## - V37
                           1
                                 41529
                                         4987241 2981.4
## - V65
                           1
                                          4990370 2981.6
                                 44658
## - V22
                           1
                                 50669
                                         4996381 2982.0
## - V38
                           1
                                 57300
                                         5003012 2982.4
## - V69
                           1
                                 59071
                                         5004784 2982.5
## - V10
                           1
                                 62976
                                         5008688 2982.7
```

```
## - V45
                           1
                                 63821
                                         5009533 2982.7
## - V1
                           1
                                         5010605 2982.8
                                 64893
## - V62
                           1
                                 66957
                                         5012669 2982.9
## - V68
                           1
                                         5014205 2983.0
                                 68493
## - V26
                                 75401
                           1
                                         5021113 2983.4
## - V66
                           1
                                 78015
                                         5023728 2983.6
## - V50
                           1
                                 78663
                                         5024375 2983.6
## - V12
                           1
                                 81444
                                         5027156 2983.8
## - V64
                                 87427
                                         5033139 2984.1
                           1
## - `START OUARTER`
                           1
                                 91522
                                         5037234 2984.4
## - V42
                           1
                                 91780
                                         5037492 2984.4
## - V29
                           1
                                 92876
                                         5038588 2984.5
## - V15
                           1
                                 96388
                                         5042100 2984.7
## - V59
                           1
                                 99752
                                         5045464 2984.9
## - V55
                           1
                                100938
                                         5046650 2984.9
## - V40
                           1
                                108002
                                         5053714 2985.3
## - V6
                           1
                                119793
                                         5065506 2986.0
## - `START YEAR`
                           1
                                136264
                                         5081976 2987.0
## - V63
                           1
                                149805
                                         5095518 2987.8
## - V47
                           1
                                156787
                                         5102499 2988.2
## - V5
                           1
                                164458
                                         5110170 2988.6
## - V17
                           1
                                194543
                                         5140256 2990.4
## - V53
                           1
                                196457
                                         5142169 2990.5
## - V23
                           1
                                205662
                                         5151374 2991.0
## - V51
                                         5167692 2992.0
                           1
                                221980
## - V48
                           1
                                230709
                                         5176422 2992.5
## - V3
                                273616
                                         5219328 2994.9
                           1
## - V2
                           1
                                296933
                                         5242645 2996.2
## - V13
                           1
                                         5285720 2998.7
                                340008
## - V70
                           1
                                370423
                                         5316136 3000.4
## - V32
                           1 572789
                                         5518501 3011.5
## - `COMPLETION QUARTER` 1
                                779642
                                         5725355 3022.4
## - `COMPLETION YEAR`
                         1 810736 5756448 3024.0
## - V8
                           1 104872928 109818640 3899.7
##
## Step: AIC=2979.96
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
##
       V1 + V2 + V3 + V5 + V6 + V8 + V10 + V12 + V13 + V15 + V16 +
      V17 + V20 + V22 + V23 + V26 + V29 + V32 + V34 + V35 + V37 +
##
      V38 + V40 + V42 + V45 + V47 + V48 + V50 + V51 + V53 + V54 +
##
      V55 + V59 + V62 + V63 + V64 + V65 + V66 + V68 + V69 + V70
##
##
##
                          Df Sum of Sq
                                             RSS
                                                     AIC
## - V35
                           1
                                  9674
                                         4972552 2978.5
## - V16
                           1
                                 12907
                                         4975785 2978.7
## - V54
                           1
                                 19594
                                         4982472 2979.1
## - V34
                           1
                                 24076
                                         4986954 2979.4
## - V37
                           1
                                 30037
                                         4992915 2979.8
## <none>
                                         4962878 2980.0
## - V65
                                         4998047 2980.1
                           1
                                 35170
## - V22
                           1
                                 37445
                                         5000323 2980.2
## - V69
                           1
                                 43762
                                         5006640 2980.6
## - V38
                           1
                                         5009429 2980.7
                                 46551
## - V45
                           1
                                 47690
                                         5010568 2980.8
## - V20
                           1
                                 48848
                                         5011726 2980.9
## - V68
                           1
                                 51481
                                         5014359 2981.0
```

```
## - V1
                                         5021373 2981.4
                           1
                                 58495
## - V26
                           1
                                 59338
                                         5022216 2981.5
## - V66
                           1
                                 61897
                                         5024775 2981.6
## - V50
                           1
                                         5027749 2981.8
                                 64871
## - V10
                                 69766
                           1
                                         5032643 2982.1
## - V64
                           1
                                 71431
                                         5034309 2982.2
## - `START QUARTER`
                           1
                                 74363
                                          5037241 2982.4
## - V12
                           1
                                 75424
                                         5038302 2982.4
## - V15
                                 79566
                                         5042444 2982.7
                           1
## - V42
                           1
                                 83327
                                         5046205 2982.9
## - V59
                           1
                                 88249
                                          5051127 2983.2
## - V29
                           1
                                 89980
                                         5052858 2983.3
## - V40
                           1
                                 98355
                                          5061233 2983.8
## - V6
                           1
                                116558
                                         5079436 2984.9
## - `START YEAR`
                           1
                                119924
                                          5082802 2985.0
## - V47
                           1
                                140461
                                          5103339 2986.2
## - V55
                           1
                                142548
                                         5105426 2986.4
## - V5
                           1
                                157055
                                         5119933 2987.2
## - V62
                           1
                                162998
                                          5125876 2987.6
## - V23
                           1
                                188591
                                         5151469 2989.0
## - V17
                                         5155447 2989.3
                           1
                                192569
## - V63
                           1
                                195420
                                         5158298 2989.4
## - V51
                           1
                                205575
                                         5168453 2990.0
## - V3
                           1
                                268997
                                         5231875 2993.6
## - V53
                                         5247308 2994.5
                           1
                                284430
## - V2
                                290992
                           1
                                         5253870 2994.9
## - V13
                                324842
                           1
                                         5287720 2996.8
## - V48
                           1
                                331748
                                         5294626 2997.2
## - V70
                                         5318879 2998.5
                           1
                                356001
## - V32
                                557795
                           1
                                         5520673 3009.6
## - `COMPLETION QUARTER` 1 763238
                                         5726115 3020.4
## - `COMPLETION YEAR`
                           1
                                795641
                                         5758519 3022.1
## - V8
                           1 104926850 109889728 3897.9
##
## Step: AIC=2978.54
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
       V1 + V2 + V3 + V5 + V6 + V8 + V10 + V12 + V13 + V15 + V16 +
##
##
       V17 + V20 + V22 + V23 + V26 + V29 + V32 + V34 + V37 + V38 +
##
      V40 + V42 + V45 + V47 + V48 + V50 + V51 + V53 + V54 + V55 +
##
       V59 + V62 + V63 + V64 + V65 + V66 + V68 + V69 + V70
##
##
                          Df Sum of Sq
                                              RSS
                                                     AIC
## - V16
                           1
                                 15309
                                          4987861 2977.4
## - V54
                           1
                                 17122
                                          4989674 2977.6
## - V34
                           1
                                 21415
                                          4993967 2977.8
## - V65
                           1
                                 25731
                                          4998283 2978.1
## - V37
                           1
                                 26897
                                          4999449 2978.1
## - V22
                           1
                                 31739
                                          5004291 2978.4
## <none>
                                          4972552 2978.5
## - V69
                           1
                                 35461
                                          5008013 2978.6
## - V38
                           1
                                 40231
                                          5012783 2978.9
## - V45
                           1
                                 40382
                                          5012935 2978.9
## - V68
                           1
                                 42208
                                         5014760 2979.0
## - V26
                           1
                                 49846
                                         5022398 2979.5
## - V66
                           1
                                 53759
                                         5026311 2979.7
## - V50
                           1
                                 56471
                                         5029023 2979.9
```

```
## - V20
                                         5029268 2979.9
                           1
                                 56716
## - V1
                           1
                                 58553
                                         5031105 2980.0
## - V64
                           1
                                 62532
                                         5035084 2980.2
## - V10
                                         5037758 2980.4
                           1
                                 65206
## - `START QUARTER`
                                         5038676 2980.5
                           1
                                 66124
## - V15
                           1
                                 70769
                                         5043321 2980.7
## - V42
                           1
                                 76161
                                         5048713 2981.1
## - V59
                           1
                                 78605
                                         5051157 2981.2
## - V29
                                 86867
                                         5059419 2981.7
                           1
## - V12
                           1
                                 88773
                                         5061325 2981.8
## - V40
                           1
                                 96419
                                         5068971 2982.2
## - `START YEAR`
                           1
                                110418
                                         5082970 2983.1
## - V6
                           1
                                113501
                                         5086054 2983.2
## - V47
                           1
                                131241
                                         5103793 2984.3
## - V55
                           1
                                134080
                                         5106632 2984.4
## - V5
                           1
                                155040
                                         5127592 2985.7
## - V62
                           1
                                155458
                                         5128010 2985.7
## - V23
                           1
                                180566
                                         5153118 2987.1
## - V17
                           1
                                185069
                                         5157621 2987.4
## - V63
                           1
                                200178
                                         5172730 2988.3
## - V51
                                         5172982 2988.3
                           1
                                200430
## - V3
                           1
                                270289
                                         5242841 2992.3
## - V53
                           1
                                275773
                                         5248325 2992.6
## - V2
                           1
                                294110
                                         5266663 2993.6
## - V13
                                         5291351 2995.0
                           1
                                318799
## - V48
                           1
                                322462
                                         5295014 2995.2
## - V70
                           1 353695
                                         5326247 2996.9
## - V32
                                573333
                           1
                                         5545885 3008.9
## - `COMPLETION QUARTER` 1 765955
                                         5738507 3019.1
## - `COMPLETION YEAR`
                         1
                                         5761794 3020.3
                                789242
## - V8
                           1 105185155 110157707 3896.6
##
## Step: AIC=2977.45
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
      V1 + V2 + V3 + V5 + V6 + V8 + V10 + V12 + V13 + V15 + V17 +
      V20 + V22 + V23 + V26 + V29 + V32 + V34 + V37 + V38 + V40 +
##
      V42 + V45 + V47 + V48 + V50 + V51 + V53 + V54 + V55 + V59 +
##
##
      V62 + V63 + V64 + V65 + V66 + V68 + V69 + V70
##
##
                          Df Sum of Sq
                                             RSS
## - V54
                                 6791
                                         4994652 2975.9
                           1
## - V34
                           1
                                 11094
                                         4998955 2976.1
## - V37
                           1
                                 18654
                                         5006515 2976.6
## - V65
                           1
                                 19756
                                         5007617 2976.6
## - V22
                           1
                                 23242
                                         5011103 2976.8
## - V68
                           1
                                 30809
                                         5018670 2977.3
## - V45
                           1
                                 32095
                                         5019955 2977.4
## <none>
                                         4987861 2977.4
## - V38
                           1
                                 35062
                                         5022923 2977.5
## - V26
                           1
                                 35926
                                         5023787 2977.6
## - V69
                           1
                                 38142
                                         5026002 2977.7
## - V20
                           1
                                 45763
                                         5033624 2978.2
## - V64
                                 49056
                           1
                                         5036917 2978.4
## - `START QUARTER`
                           1
                                 53897
                                         5041758 2978.6
## - V1
                           1
                                 57603
                                         5045463 2978.9
## - V10
                           1
                                 63470
                                         5051330 2979.2
```

```
## - V15
                                         5052520 2979.3
                           1
                                 64659
## - V59
                                         5054527 2979.4
                           1
                                 66667
## - V50
                           1
                                 66781
                                         5054642 2979.4
## - V42
                           1
                                 67971
                                         5055831 2979.5
## - V29
                                 75018
                                         5062879 2979.9
                           1
## - V66
                           1
                                 75360
                                         5063221 2979.9
## - `START YEAR`
                           1
                                 95270
                                         5083130 2981.1
## - V40
                           1
                                 99853
                                         5087714 2981.3
## - V6
                                         5093396 2981.7
                           1
                                105535
## - V12
                           1
                                119248
                                         5107109 2982.5
## - V47
                           1
                                137669
                                         5125530 2983.5
## - V5
                           1
                                145930
                                         5133791 2984.0
## - V55
                           1
                                151290
                                         5139150 2984.3
## - V62
                           1
                                166516
                                         5154377 2985.2
## - V23
                           1
                                177763
                                         5165624 2985.8
## - V51
                           1
                                185194
                                         5173054 2986.3
## - V63
                           1
                                185863
                                         5173724 2986.3
## - V17
                           1
                                201850
                                         5189710 2987.2
## - V3
                           1
                                270331
                                         5258192 2991.1
## - V53
                           1
                                288924
                                         5276785 2992.2
## - V2
                                         5282035 2992.5
                           1
                                294175
## - V48
                           1
                                308060
                                         5295921 2993.2
## - V13
                           1
                                309191
                                         5297052 2993.3
## - V70
                           1
                                339012
                                         5326873 2995.0
## - V32
                              558212
                                         5546072 3007.0
                           1
## - `COMPLETION QUARTER` 1 756201
                                         5744061 3017.4
## - `COMPLETION YEAR`
                         1 784629 5772490 3018.8
## - V8
                           1 106331125 111318986 3897.8
##
## Step: AIC=2975.85
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
##
      V1 + V2 + V3 + V5 + V6 + V8 + V10 + V12 + V13 + V15 + V17 +
##
      V20 + V22 + V23 + V26 + V29 + V32 + V34 + V37 + V38 + V40 +
      V42 + V45 + V47 + V48 + V50 + V51 + V53 + V55 + V59 + V62 +
##
      V63 + V64 + V65 + V66 + V68 + V69 + V70
##
##
                          Df Sum of Sq
##
                                             RSS
                                                    AIC
## - V34
                           1
                                  5175
                                         4999827 2974.2
## - V37
                           1
                                 13586
                                         5008238 2974.7
## - V65
                           1
                                 16549
                                         5011201 2974.8
## - V22
                           1
                                 18239
                                         5012891 2974.9
## - V68
                           1
                                 25240
                                         5019892 2975.4
## - V45
                           1
                                 29842
                                         5024494 2975.6
## - V26
                           1
                                 32055
                                         5026707 2975.8
## <none>
                                         4994652 2975.9
## - V69
                           1
                                 37234
                                         5031886 2976.1
## - V64
                           1
                                 42266
                                         5036918 2976.4
## - V38
                           1
                                 43067
                                         5037719 2976.4
## - V20
                           1
                                 46854
                                         5041506 2976.6
## - `START QUARTER`
                           1
                                 48377
                                         5043028 2976.7
## - V15
                           1
                                 59115
                                         5053767 2977.3
## - V1
                           1
                                 59397
                                         5054049 2977.4
## - V42
                           1
                                 61258
                                         5055910 2977.5
## - V50
                           1
                                 61417
                                         5056069 2977.5
## - V10
                           1
                                 64659
                                         5059311 2977.7
## - V59
                           1
                                 65626
                                         5060278 2977.7
```

```
## - V29
                                 72796
                                         5067448 2978.2
                           1
## - V66
                           1
                                 86437
                                         5081089 2978.9
## - `START YEAR`
                           1
                                 89775
                                         5084427 2979.1
## - V6
                           1
                                         5095972 2979.8
                                101320
## - V40
                                129480
                                         5124132 2981.5
                           1
## - V47
                           1
                                131173
                                         5125825 2981.6
## - V5
                           1
                                141778
                                         5136430 2982.2
## - V12
                           1
                                157374
                                         5152026 2983.1
## - V62
                                174645
                                         5169297 2984.1
                           1
## - V63
                           1
                                181798
                                         5176450 2984.5
## - V23
                           1
                                200221
                                         5194873 2985.5
## - V55
                                         5195097 2985.5
                           1
                                200445
## - V17
                           1
                                204351
                                         5199003 2985.8
## - V51
                           1
                                208348
                                         5203000 2986.0
## - V3
                           1
                                264372
                                         5259024 2989.2
## - V53
                           1
                                282590
                                         5277242 2990.2
## - V2
                           1
                                287947
                                         5282599 2990.5
## - V48
                           1
                                301276
                                         5295928 2991.2
## - V70
                           1
                                335447
                                         5330099 2993.2
## - V13
                           1
                                375716
                                         5370368 2995.4
## - V32
                           1
                                551979
                                         5546631 3005.0
## - `COMPLETION QUARTER` 1
                                750600
                                         5745252 3015.4
                           1
## - `COMPLETION YEAR`
                                780675
                                         5775327 3017.0
## - V8
                           1 106376999 111371651 3895.9
##
## Step: AIC=2974.16
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
      V1 + V2 + V3 + V5 + V6 + V8 + V10 + V12 + V13 + V15 + V17 +
##
      V20 + V22 + V23 + V26 + V29 + V32 + V37 + V38 + V40 + V42 +
##
##
      V45 + V47 + V48 + V50 + V51 + V53 + V55 + V59 + V62 + V63 +
      V64 + V65 + V66 + V68 + V69 + V70
##
##
##
                          Df Sum of Sq
                                             RSS
                                                    AIC
## - V37
                                  9891
                           1
                                         5009718 2972.7
## - V65
                           1
                                 13437
                                         5013264 2973.0
## - V22
                           1
                                 17554
                                         5017381 2973.2
## - V68
                           1
                                 21199
                                         5021027 2973.4
## - V45
                           1
                                 26103
                                         5025930 2973.7
## - V26
                           1
                                 27822
                                         5027649 2973.8
## <none>
                                         4999827 2974.2
## - V64
                                         5037076 2974.4
                           1
                                 37249
## - `START QUARTER`
                           1
                                 43233
                                         5043061 2974.7
## - V20
                           1
                                 48347
                                         5048174 2975.0
## - V38
                           1
                                 49445
                                         5049272 2975.1
## - V69
                           1
                                 53716
                                         5053544 2975.3
## - V1
                           1
                                 55866
                                         5055693 2975.5
## - V42
                           1
                                 56239
                                         5056067 2975.5
## - V59
                           1
                                 62225
                                         5062052 2975.8
## - V15
                           1
                                 67362
                                         5067189 2976.1
## - V50
                           1
                                 68485
                                         5068312 2976.2
## - V10
                           1
                                 71389
                                         5071216 2976.4
## - V29
                           1
                                 72989
                                         5072816 2976.5
## - `START YEAR`
                           1
                                 85632
                                         5085459 2977.2
## - V6
                           1
                                100025
                                         5099852 2978.0
## - V66
                           1
                                104238
                                         5104065 2978.3
## - V40
                           1
                                127425
                                         5127253 2979.6
```

```
## - V47
                                         5127292 2979.6
                           1
                                127464
## - V5
                           1
                                137437
                                         5137264 2980.2
## - V12
                           1
                                155435
                                         5155262 2981.3
## - V62
                                         5180756 2982.7
                           1
                                180929
## - V63
                                         5188185 2983.1
                           1
                                188358
## - V55
                           1
                                195833
                                         5195660 2983.6
## - V17
                           1
                                199330
                                         5199157 2983.8
## - V23
                           1
                                201036
                                         5200863 2983.9
## - V51
                                210859
                                         5210686 2984.4
                           1
## - V3
                           1
                                264591
                                         5264418 2987.5
## - V2
                           1
                                290904
                                         5290731 2989.0
## - V53
                           1
                                293692
                                         5293519 2989.1
## - V48
                           1
                                314524
                                         5314351 2990.3
## - V70
                           1
                                331283
                                         5331110 2991.2
## - V13
                           1
                                370592
                                         5370419 2993.4
## - V32
                           1
                                596902
                                         5596729 3005.7
## - `COMPLETION QUARTER`
                           1
                                749811
                                         5749639 3013.7
## - `COMPLETION YEAR`
                           1
                                780481
                                         5780308 3015.2
## - V8
                           1 106439099 111438926 3894.1
##
## Step: AIC=2972.75
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
      V1 + V2 + V3 + V5 + V6 + V8 + V10 + V12 + V13 + V15 + V17 +
##
      V20 + V22 + V23 + V26 + V29 + V32 + V38 + V40 + V42 + V45 +
##
      V47 + V48 + V50 + V51 + V53 + V55 + V59 + V62 + V63 + V64 +
##
      V65 + V66 + V68 + V69 + V70
##
##
##
                          Df Sum of Sq
                                             RSS
                                                    ATC
## - V65
                           1
                                 7926
                                         5017644 2971.2
## - V68
                           1
                                 19716
                                         5029434 2971.9
## - V45
                           1
                                 21796
                                         5031514 2972.0
## - V26
                           1
                                 22199
                                         5031917 2972.1
## - V64
                           1
                                 31514
                                         5041232 2972.6
## - V22
                           1
                                         5043055 2972.7
                                 33337
## <none>
                                         5009718 2972.7
## - `START QUARTER`
                           1
                                 36264
                                         5045982 2972.9
## - V38
                           1
                                 46956
                                         5056674 2973.5
## - V20
                           1
                                 50087
                                         5059805 2973.7
## - V42
                           1
                                 53764
                                         5063482 2973.9
## - V1
                           1
                                 55820
                                         5065538 2974.0
## - V69
                           1
                                 56149
                                         5065868 2974.1
## - V50
                           1
                                 61224
                                         5070942 2974.4
## - V59
                           1
                                 62663
                                         5072381 2974.4
## - V15
                           1
                                 72938
                                         5082656 2975.0
## - V29
                           1
                                 72966
                                         5082684 2975.0
## - V10
                           1
                                 74726
                                         5084444 2975.1
## - `START YEAR`
                           1
                                 75961
                                         5085679 2975.2
## - V6
                           1
                                112394
                                         5122112 2977.3
## - V66
                           1
                                114459
                                         5124177 2977.5
## - V47
                           1
                                118145
                                         5127863 2977.7
## - V5
                           1
                                145320
                                         5155038 2979.2
## - V40
                           1
                                168870
                                         5178588 2980.6
## - V17
                           1
                                189482
                                         5199201 2981.8
## - V55
                           1
                                189956
                                         5199674 2981.8
## - V63
                           1
                                192761
                                         5202479 2982.0
## - V12
                           1
                                193061
                                         5202779 2982.0
```

```
## - V62
                                         5208029 2982.3
                           1
                                198311
## - V51
                           1
                                208389
                                         5218107 2982.9
## - V23
                           1
                                212413
                                         5222131 2983.1
## - V3
                                         5270852 2985.8
                           1
                                261134
## - V2
                           1
                                287482
                                         5297201 2987.3
## - V53
                          1
                                300697
                                         5310415 2988.1
## - V48
                           1
                                305487
                                         5315205 2988.3
## - V70
                          1
                             357309
                                         5367028 2991.2
## - V13
                                382593
                                         5392311 2992.6
                           1
## - V32
                           1 655662
                                         5665381 3007.3
## - `COMPLETION QUARTER` 1
                                744147
                                         5753865 3011.9
## - `COMPLETION YEAR` 1 771486
                                         5781204 3013.3
## - V8
                          1 106498963 111508681 3892.3
##
## Step: AIC=2971.22
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
       V1 + V2 + V3 + V5 + V6 + V8 + V10 + V12 + V13 + V15 + V17 +
      V20 + V22 + V23 + V26 + V29 + V32 + V38 + V40 + V42 + V45 +
##
      V47 + V48 + V50 + V51 + V53 + V55 + V59 + V62 + V63 + V64 +
##
##
      V66 + V68 + V69 + V70
##
##
                          Df Sum of Sq
                                             RSS
                                                    AIC
## - V68
                           1
                                 12562
                                         5030206 2970.0
## - V45
                           1
                                 14094
                                         5031738 2970.1
## - V26
                           1
                                 14765
                                         5032409 2970.1
## - V64
                           1
                                 23633
                                         5041277 2970.6
## - V22
                                 25413
                           1
                                         5043057 2970.7
## - `START QUARTER`
                          1
                                 28653
                                         5046297 2970.9
## <none>
                                         5017644 2971.2
## - V38
                           1
                                 42900
                                         5060544 2971.7
## - V20
                           1
                                 45321
                                         5062965 2971.9
## - V69
                           1
                                 48257
                                         5065901 2972.1
## - V42
                          1
                                 51525
                                         5069169 2972.3
## - V1
                           1
                                 52941
                                         5070585 2972.3
## - V50
                          1
                                 53327
                                         5070971 2972.4
## - V59
                           1
                                 57527
                                         5075171 2972.6
## - V15
                           1
                                 66534
                                         5084178 2973.1
## - `START YEAR`
                           1
                                 68917
                                         5086561 2973.3
## - V29
                           1
                                 76653
                                         5094297 2973.7
## - V10
                           1
                                 77237
                                         5094881 2973.8
## - V47
                           1
                                110245
                                         5127889 2975.7
## - V6
                           1
                                113301
                                         5130945 2975.8
## - V66
                           1
                                114955
                                         5132599 2975.9
## - V5
                           1
                                143198
                                         5160842 2977.6
## - V40
                           1
                                167057
                                         5184701 2978.9
## - V12
                           1
                                185629
                                         5203273 2980.0
## - V63
                           1
                                187056
                                         5204700 2980.1
## - V51
                           1
                                209736
                                         5227380 2981.4
## - V17
                           1
                                210544
                                         5228188 2981.4
## - V55
                           1
                                212295
                                         5229939 2981.5
## - V62
                           1
                                227319
                                         5244963 2982.4
## - V23
                           1
                                240950
                                         5258594 2983.1
## - V3
                           1
                                         5285430 2984.7
                                267786
## - V53
                           1
                                292779
                                         5310423 2986.1
## - V2
                           1
                                296983
                                         5314627 2986.3
## - V48
                           1
                                308672
                                         5326316 2986.9
```

```
## - V70
                           1
                                360353
                                         5377997 2989.8
## - V13
                           1
                                382360
                                         5400004 2991.0
## - V32
                           1
                                659997
                                         5677641 3005.9
## - `COMPLETION QUARTER`
                           1
                                762123
                                         5779766 3011.2
## - `COMPLETION YEAR`
                                775009
                                         5792653 3011.9
                           1
## - V8
                           1 106536390 111554034 3890.4
##
## Step: AIC=2969.96
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
      V1 + V2 + V3 + V5 + V6 + V8 + V10 + V12 + V13 + V15 + V17 +
      V20 + V22 + V23 + V26 + V29 + V32 + V38 + V40 + V42 + V45 +
##
      V47 + V48 + V50 + V51 + V53 + V55 + V59 + V62 + V63 + V64 +
##
##
      V66 + V69 + V70
##
##
                          Df Sum of Sq
                                             RSS
                                                    AIC
## - V45
                           1
                                 13831
                                         5044037 2968.8
## - V26
                           1
                                 17539
                                         5047745 2969.0
## - V22
                           1
                                 17811
                                         5048017 2969.0
## - `START QUARTER`
                           1
                                 25055
                                         5055261 2969.4
## - V64
                           1
                                 25112
                                         5055319 2969.4
## - V20
                           1
                                 32944
                                         5063150 2969.9
## <none>
                                         5030206 2970.0
## - V69
                                 36263
                           1
                                         5066469 2970.1
## - V42
                           1
                                 45020
                                         5075227 2970.6
## - V59
                                 50898
                           1
                                         5081104 2971.0
## - V38
                           1
                                 51255
                                         5081462 2971.0
## - V1
                           1
                                 53185
                                         5083391 2971.1
## - V15
                           1
                                 54020
                                         5084226 2971.1
## - `START YEAR`
                           1
                                 56405
                                         5086611 2971.3
## - V50
                                         5089340 2971.4
                           1
                                 59134
## - V66
                           1
                                106807
                                         5137013 2974.2
## - V6
                           1
                                110797
                                         5141003 2974.4
## - V29
                           1
                                112739
                                         5142945 2974.5
## - V10
                                121896
                           1
                                         5152102 2975.1
## - V47
                           1
                                126343
                                         5156549 2975.3
## - V5
                           1
                                137826
                                         5168032 2976.0
## - V40
                           1
                                154659
                                         5184865 2977.0
## - V12
                           1
                                188669
                                         5218876 2978.9
## - V17
                           1
                                198247
                                         5228453 2979.4
## - V51
                           1
                                206804
                                         5237011 2979.9
## - V63
                           1
                                217418
                                         5247624 2980.5
## - V62
                           1
                                222639
                                         5252845 2980.8
## - V23
                           1
                                233865
                                         5264071 2981.5
## - V55
                           1
                                248115
                                         5278322 2982.3
## - V3
                           1
                                265748
                                         5295954 2983.3
## - V2
                           1
                                292379
                                         5322585 2984.7
## - V48
                           1
                                296865
                                         5327071 2985.0
## - V53
                           1
                                297825
                                         5328032 2985.0
## - V70
                           1
                                354313
                                         5384519 2988.2
## - V13
                           1
                                384498
                                         5414704 2989.8
## - V32
                           1
                                681608
                                         5711815 3005.7
## - `COMPLETION QUARTER`
                                754276
                           1
                                         5784483 3009.5
## - `COMPLETION YEAR`
                           1
                                         5798243 3010.2
                                768036
## - V8
                           1 106702125 111732331 3888.9
##
## Step: AIC=2968.78
```

```
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
       V1 + V2 + V3 + V5 + V6 + V8 + V10 + V12 + V13 + V15 + V17 +
##
       V20 + V22 + V23 + V26 + V29 + V32 + V38 + V40 + V42 + V47 +
##
       V48 + V50 + V51 + V53 + V55 + V59 + V62 + V63 + V64 + V66 +
##
##
       V69 + V70
##
##
                           Df Sum of Sq
                                              RSS
                                                      AIC
## - V26
                           1
                                   4996
                                          5049033 2967.1
## - V22
                            1
                                  17003
                                          5061040 2967.8
## - V20
                           1
                                  28023
                                          5072060 2968.4
## - `START QUARTER`
                            1
                                  30955
                                          5074992 2968.6
                                          5044037 2968.8
## <none>
## - V69
                           1
                                  35391
                                          5079428 2968.9
## - V42
                            1
                                  35867
                                          5079904 2968.9
## - V64
                            1
                                  39082
                                          5083119 2969.1
## - V59
                            1
                                  51051
                                          5095088 2969.8
## - V50
                            1
                                  52814
                                          5096851 2969.9
## - V1
                            1
                                  53329
                                          5097366 2969.9
## - V38
                            1
                                  56619
                                          5100656 2970.1
## - V15
                            1
                                  75952
                                          5119989 2971.2
## - `START YEAR`
                            1
                                  90063
                                          5134100 2972.0
## - V66
                            1
                                 107649
                                          5151686 2973.0
## - V10
                            1
                                          5155263 2973.3
                                 111226
## - V29
                            1
                                 119398
                                          5163435 2973.7
## - V47
                                          5171791 2974.2
                            1
                                 127753
## - V6
                            1
                                 130472
                                          5174510 2974.4
## - V40
                            1
                                 156787
                                          5200825 2975.9
## - V5
                           1
                                 164348
                                          5208385 2976.3
## - V12
                            1
                                          5228981 2977.5
                                 184944
## - V17
                            1
                                          5229038 2977.5
                                 185001
## - V51
                           1
                                 194337
                                          5238374 2978.0
## - V63
                           1
                                 209664
                                          5253701 2978.9
## - V62
                           1
                                 225049
                                          5269086 2979.7
## - V55
                                 234393
                                          5278431 2980.3
                            1
## - V23
                           1
                                 242552
                                          5286589 2980.7
## - V3
                            1
                                 260667
                                          5304704 2981.7
## - V2
                            1
                                 287685
                                          5331722 2983.2
## - V53
                            1
                                 292425
                                          5336463 2983.5
## - V70
                            1
                                 341169
                                          5385206 2986.2
## - V13
                            1
                                 371303
                                          5415340 2987.9
## - V48
                            1
                                 387122
                                          5431159 2988.7
## - V32
                            1
                                 668109
                                          5712146 3003.7
## - `COMPLETION QUARTER`
                           1
                                 752885
                                          5796922 3008.1
## - `COMPLETION YEAR`
                            1
                                 773180
                                          5817217 3009.1
## - V8
                            1 106937240 111981278 3887.5
##
## Step: AIC=2967.07
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
##
       V1 + V2 + V3 + V5 + V6 + V8 + V10 + V12 + V13 + V15 + V17 +
       V20 + V22 + V23 + V29 + V32 + V38 + V40 + V42 + V47 + V48 +
##
       V50 + V51 + V53 + V55 + V59 + V62 + V63 + V64 + V66 + V69 +
##
##
       V70
##
##
                           Df Sum of Sq
                                              RSS
                                                      AIC
## - V22
                           1
                                  19262
                                          5068294 2966.2
## <none>
                                          5049033 2967.1
```

```
## - V69
                           1
                                 35009
                                         5084042 2967.1
## - `START QUARTER`
                           1
                                 35033
                                         5084066 2967.1
## - V20
                           1
                                 38271
                                         5087304 2967.3
## - V42
                           1
                                 39488
                                         5088521 2967.4
## - V64
                           1
                                 45900
                                         5094932 2967.8
## - V1
                           1
                                 50162
                                         5099195 2968.0
## - V38
                           1
                                 53180
                                         5102213 2968.2
## - V50
                           1
                                 55245
                                         5104278 2968.3
## - V59
                                         5104649 2968.3
                           1
                                 55616
## - V66
                           1
                                116915
                                         5165948 2971.9
## - V47
                           1
                                122766
                                         5171798 2972.2
## - V10
                                         5173777 2972.3
                           1
                                124744
## - V6
                           1
                                127874
                                         5176907 2972.5
## - V29
                           1
                                133517
                                         5182550 2972.8
## - V15
                           1
                                142924
                                         5191957 2973.4
## - `START YEAR`
                           1
                                147680
                                         5196713 2973.6
## - V5
                           1
                                159693
                                         5208726 2974.3
## - V40
                           1
                                173482
                                         5222515 2975.1
## - V12
                           1
                                193744
                                         5242776 2976.3
## - V17
                           1
                                199631
                                         5248664 2976.6
## - V63
                                         5258469 2977.1
                           1
                                209436
## - V51
                           1
                                209515
                                         5258548 2977.1
## - V62
                           1
                                221623
                                         5270656 2977.8
## - V55
                           1
                                245176
                                         5294209 2979.2
## - V3
                                         5310842 2980.1
                           1
                                261809
## - V53
                                287558
                           1
                                         5336591 2981.5
## - V2
                                288045
                           1
                                         5337078 2981.5
## - V70
                           1
                                336175
                                         5385207 2984.2
## - V23
                           1
                                         5397901 2984.9
                                348868
## - V13
                                368892
                                         5417924 2986.0
                           1
## - V48
                           1
                                386114
                                         5435147 2987.0
## - V32
                           1
                                693373
                                         5742406 3003.3
## - `COMPLETION QUARTER` 1 764674
                                         5813707 3007.0
## - `COMPLETION YEAR`
                           1
                                770305
                                         5819338 3007.2
## - V8
                           1 106994037 112043070 3885.7
##
## Step: AIC=2966.2
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
##
      V1 + V2 + V3 + V5 + V6 + V8 + V10 + V12 + V13 + V15 + V17 +
##
      V20 + V23 + V29 + V32 + V38 + V40 + V42 + V47 + V48 + V50 +
      V51 + V53 + V55 + V59 + V62 + V63 + V64 + V66 + V69 + V70
##
##
##
                          Df Sum of Sq
                                             RSS
                                                    AIC
## - V20
                           1
                                 28558
                                         5096853 2965.9
## - V42
                           1
                                 31120
                                         5099414 2966.0
## <none>
                                         5068294 2966.2
## - V64
                           1
                                 36071
                                         5104365 2966.3
## - `START QUARTER`
                           1
                                 36390
                                         5104684 2966.3
## - V69
                           1
                                 45013
                                         5113307 2966.8
## - V38
                           1
                                 49428
                                         5117722 2967.1
## - V59
                           1
                                 49531
                                         5117826 2967.1
## - V1
                           1
                                 53495
                                         5121789 2967.3
## - V50
                           1
                                 58274
                                         5126569 2967.6
## - V66
                           1
                                110938
                                         5179233 2970.6
## - V6
                           1
                                118580
                                         5186875 2971.1
## - V47
                           1
                                122264
                                         5190558 2971.3
```

```
## - V15
                          1
                                128368
                                         5196662 2971.6
## - V5
                           1
                                         5222917 2973.1
                                154622
## - V40
                           1
                                155970
                                         5224264 2973.2
## - V29
                                         5225989 2973.3
                           1
                                157694
## - V10
                           1
                                         5229095 2973.5
                               160801
## - `START YEAR`
                          1 166969
                                         5235263 2973.8
## - V12
                           1
                                182374
                                         5250668 2974.7
## - V51
                          1
                             206462
                                         5274757 2976.1
## - V62
                                209548
                                         5277842 2976.2
                           1
## - V17
                          1
                                213617
                                         5281912 2976.5
## - V3
                           1
                                266727
                                         5335021 2979.4
## - V55
                                         5358998 2980.8
                          1
                                290703
## - V63
                           1
                                292474
                                         5360769 2980.9
## - V53
                          1
                                295609
                                         5363903 2981.0
## - V2
                           1
                                297970
                                         5366264 2981.2
## - V70
                          1
                                320391
                                         5388686 2982.4
## - V23
                           1
                                333066
                                         5401360 2983.1
## - V13
                           1
                                368266
                                         5436560 2985.0
## - V48
                           1
                                388688
                                         5456982 2986.1
## - V32
                           1
                                689990
                                         5758284 3002.1
## - `COMPLETION QUARTER` 1
                                765358
                                         5833653 3006.0
## - `COMPLETION YEAR`
                         1 768719
                                         5837013 3006.1
## - V8
                           1 107561672 112629966 3885.2
##
## Step: AIC=2965.87
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
      V1 + V2 + V3 + V5 + V6 + V8 + V10 + V12 + V13 + V15 + V17 +
##
      V23 + V29 + V32 + V38 + V40 + V42 + V47 + V48 + V50 + V51 +
##
      V53 + V55 + V59 + V62 + V63 + V64 + V66 + V69 + V70
##
##
##
                          Df Sum of Sq
                                             RSS
                                                  ATC
## - V42
                           1
                                 16786
                                         5113639 2964.8
## - V69
                          1
                                 30492
                                         5127345 2965.6
## - `START QUARTER`
                          1
                                 31319
                                         5128172 2965.7
## - V64
                           1
                                 32913
                                         5129766 2965.8
## <none>
                                         5096853 2965.9
## - V50
                           1
                                 42195
                                         5139047 2966.3
## - V59
                           1
                                 52363
                                         5149216 2966.9
## - V1
                           1
                                 53080
                                         5149932 2966.9
## - V38
                           1
                                 66978
                                         5163831 2967.7
## - V47
                          1
                                105092
                                         5201944 2969.9
## - V66
                           1
                                109833
                                         5206686 2970.2
## - V6
                           1
                                         5209317 2970.4
                                112465
## - V15
                           1
                                121129
                                         5217982 2970.8
## - V5
                          1
                                146249
                                         5243101 2972.3
## - `START YEAR`
                           1
                                153595
                                         5250448 2972.7
## - V40
                           1
                                167424
                                         5264276 2973.5
## - V12
                           1
                                176311
                                         5273164 2974.0
## - V51
                           1
                                178649
                                         5275502 2974.1
## - V62
                           1
                                184849
                                         5281702 2974.4
## - V17
                           1
                                196834
                                         5293686 2975.1
## - V29
                           1
                                         5297997 2975.4
                                201144
## - V10
                           1
                                204784
                                         5301636 2975.6
## - V3
                           1
                                         5362257 2978.9
                                265404
## - V53
                           1
                                288221
                                         5385074 2980.2
## - V70
                           1
                                294415
                                         5391268 2980.5
```

```
## - V2
                          1
                               296446
                                        5393299 2980.7
## - V63
                          1
                               310040
                                        5406893 2981.4
## - V13
                                        5436582 2983.0
                          1
                               339729
## - V23
                          1
                             382073
                                        5478926 2985.3
## - V55
                          1
                               396315
                                        5493168 2986.1
## - V48
                          1 497788
                                        5594640 2991.5
                          1
## - V32
                               670905
                                        5767758 3000.6
## - `COMPLETION QUARTER` 1 744065 5840917 3004.3
## - `COMPLETION YEAR`
                         1 778066
                                        5874919 3006.1
## - V8
                          1 107752011 112848863 3883.8
##
## Step: AIC=2964.85
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
      V1 + V2 + V3 + V5 + V6 + V8 + V10 + V12 + V13 + V15 + V17 +
      V23 + V29 + V32 + V38 + V40 + V47 + V48 + V50 + V51 + V53 +
##
##
      V55 + V59 + V62 + V63 + V64 + V66 + V69 + V70
##
                         Df Sum of Sq
                                            RSS
                                                  AIC
## - `START QUARTER`
                          1
                                16902
                                        5130541 2963.8
## - V69
                          1
                                23764
                                        5137402 2964.2
## - V64
                          1
                                24020
                                        5137659 2964.2
## - V50
                          1
                                26286
                                        5139925 2964.4
                                        5113639 2964.8
## <none>
## - V59
                          1
                                40250
                                        5153889 2965.2
## - V1
                                57551
                                        5171190 2966.2
                          1
## - V47
                          1
                                89024
                                        5202663 2968.0
## - V38
                                94679
                          1
                                        5208318 2968.3
                               104889
## - V15
                          1
                                        5218528 2968.9
## - V66
                          1
                             111829
                                        5225468 2969.3
## - V6
                          1
                               117393
                                        5231032 2969.6
## - `START YEAR`
                          1 145883
                                        5259522 2971.2
## - V5
                          1
                               156116
                                        5269755 2971.8
## - V40
                          1
                             168203
                                        5281842 2972.5
## - V12
                          1
                               168372
                                        5282011 2972.5
## - V62
                          1
                               168572
                                        5282211 2972.5
## - V51
                          1
                               172948
                                        5286587 2972.7
## - V17
                          1
                               192945
                                        5306584 2973.8
## - V3
                          1
                               260424
                                        5374063 2977.6
## - V53
                          1
                                        5385314 2978.2
                               271675
## - V10
                          1
                               279115
                                        5392754 2978.6
## - V2
                                        5401195 2979.1
                          1
                               287556
## - V70
                          1
                               288999
                                        5402638 2979.2
## - V63
                          1
                               295417
                                        5409056 2979.5
## - V29
                          1
                               336538
                                        5450177 2981.8
## - V13
                          1
                               345401
                                        5459040 2982.3
## - V55
                          1
                               507149
                                        5620788 2990.9
## - V48
                          1
                               546551
                                        5660189 2993.0
## - V23
                          1
                               566216
                                        5679855 2994.0
## - V32
                          1
                               667618
                                        5781257 2999.3
## - `COMPLETION QUARTER` 1
                               749146
                                        5862785 3003.4
## - `COMPLETION YEAR`
                               761319
                                        5874957 3004.1
                          1
## - V8
                          1 108430509 113544147 3883.6
##
## Step: AIC=2963.83
## V104 ~ `START YEAR` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
      V1 + V2 + V3 + V5 + V6 + V8 + V10 + V12 + V13 + V15 + V17 +
##
```

```
##
       V23 + V29 + V32 + V38 + V40 + V47 + V48 + V50 + V51 + V53 +
       V55 + V59 + V62 + V63 + V64 + V66 + V69 + V70
##
##
##
                          Df Sum of Sq
                                              RSS
                                                     AIC
## - V64
                                  17124
                                          5147665 2962.8
                           1
## - V69
                           1
                                  25013
                                          5155554 2963.3
## <none>
                                          5130541 2963.8
## - V59
                           1
                                  36554
                                          5167094 2963.9
## - V50
                           1
                                 54461
                                          5185002 2965.0
## - V1
                           1
                                 56296
                                          5186837 2965.1
## - V15
                           1
                                 91276
                                          5221817 2967.1
## - V47
                           1
                                  96627
                                          5227168 2967.4
## - V38
                           1
                                104851
                                          5235392 2967.8
## - V66
                           1
                                128289
                                          5258830 2969.2
## - V6
                           1
                                130258
                                          5260799 2969.3
## - V12
                           1
                                155153
                                          5285693 2970.7
## - V40
                           1
                                155155
                                          5285695 2970.7
## - V5
                           1
                                164591
                                          5295132 2971.2
## - `START YEAR`
                           1
                                183885
                                          5314426 2972.3
## - V3
                           1
                                262802
                                          5393343 2976.7
## - V17
                           1
                                274958
                                          5405499 2977.3
## - V70
                           1
                                276526
                                          5407067 2977.4
## - V2
                           1
                                288784
                                          5419325 2978.1
## - V51
                           1
                                292042
                                          5422583 2978.3
## - V29
                                          5518367 2983.5
                           1
                                387826
## - V53
                           1
                                405304
                                          5535845 2984.4
## - V62
                                          5605584 2988.1
                           1
                                475043
## - V13
                           1
                                484888
                                          5615429 2988.6
## - V23
                           1
                                          5685935 2992.4
                                555394
## - V48
                           1
                                          5710886 2993.7
                                580345
## - V10
                           1
                                670263
                                          5800804 2998.3
## - V32
                           1
                                686133
                                          5816673 2999.1
## - V63
                           1
                              709099
                                          5839640 3000.3
## - `COMPLETION QUARTER`
                           1
                                741273
                                          5871814 3001.9
## - `COMPLETION YEAR`
                           1
                                744594
                                          5875135 3002.1
## - V55
                           1
                                890584
                                          6021125 3009.4
## - V8
                           1 109687937 114818478 3884.9
##
## Step: AIC=2962.82
## V104 ~ `START YEAR` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
       V1 + V2 + V3 + V5 + V6 + V8 + V10 + V12 + V13 + V15 + V17 +
##
       V23 + V29 + V32 + V38 + V40 + V47 + V48 + V50 + V51 + V53 +
##
##
       V55 + V59 + V62 + V63 + V66 + V69 + V70
##
##
                          Df Sum of Sq
                                              RSS
                                                     AIC
## <none>
                                          5147665 2962.8
## - V59
                           1
                                  37163
                                          5184828 2963.0
## - V69
                           1
                                          5190919 2963.3
                                  43254
## - V1
                           1
                                  57707
                                          5205371 2964.1
## - V15
                                 79418
                           1
                                          5227083 2965.4
## - V50
                           1
                                  81649
                                          5229314 2965.5
## - V47
                           1
                                          5237492 2966.0
                                  89827
## - V6
                           1
                                          5273908 2968.0
                                126243
## - V66
                           1
                                127154
                                          5274819 2968.1
## - V38
                           1
                                130609
                                          5278274 2968.3
## - V12
                           1
                                141802
                                          5289467 2968.9
```

```
## - V40
                         1
                              147580
                                      5295245 2969.2
## - V5
                                      5313721 2970.2
                         1
                              166056
## - `START YEAR`
                         1
                              177901
                                      5325566 2970.9
## - V3
                              272287
                                      5419952 2976.1
                         1
## - V51
                         1
                              275592
                                      5423257 2976.3
## - V70
                         1
                              278389
                                      5426054 2976.5
## - V2
                              300847
                                      5448512 2977.7
                         1
## - V17
                                      5541580 2982.7
                         1
                              393915
## - V53
                         1
                              395934
                                      5543599 2982.8
## - V29
                         1 437960
                                      5585625 2985.1
## - V62
                              462986
                                      5610651 2986.4
                         1
## - V13
                         1
                              522553
                                      5670218 2989.5
## - V23
                         1
                              542876
                                      5690541 2990.6
## - V48
                         1
                              622088
                                      5769753 2994.7
## - V10
                         1
                              704581
                                      5852246 2998.9
## - V63
                                      5870278 2999.8
                         1
                           722613
## - `COMPLETION QUARTER`
                           734495
                         1
                                      5882160 3000.4
## - V32
                         1 767600
                                      5915265 3002.1
## - `COMPLETION YEAR`
                              777367
                                      5925031 3002.6
                         1
## - V55
                         1
                              879877
                                      6027542 3007.7
## - V8
                         1 109675490 114823155 3883.0
```

```
stepwise_model_time <- system.time({
  stepwise_model <- stepAIC(model, direction = "both")
})</pre>
```

```
## Start: AIC=3027.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
##
       V1 + V2 + V3 + V4 + V5 + V6 + V7 + V8 + V9 + V10 + V11 +
##
       V12 + V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 +
##
       V22 + V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V31 +
       V32 + V33 + V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 +
##
       V42 + V43 + V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 +
##
       V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 +
##
       V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70 + V71 +
##
##
       V72 + V73 + V74 + V75 + V76 + V77 + V78 + V79 + V80 + V81 +
##
       V82 + V83 + V84 + V85 + V86 + V87 + V88 + V89 + V90 + V91 +
       V92 + V93 + V94 + V95 + V96 + V97 + V98 + V99 + V100 + V101 +
##
##
       V102 + V103
##
##
## Step: AIC=3027.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
       V1 + V2 + V3 + V4 + V5 + V6 + V7 + V8 + V9 + V10 + V11 +
##
       V12 + V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 +
##
       V22 + V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V31 +
##
       V32 + V33 + V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 +
##
       V42 + V43 + V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 +
##
       V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 +
##
##
       V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70 + V71 +
       V72 + V73 + V74 + V75 + V76 + V77 + V78 + V79 + V80 + V81 +
##
       V82 + V83 + V84 + V85 + V86 + V87 + V88 + V89 + V90 + V91 +
##
       V92 + V93 + V94 + V95 + V96 + V97 + V98 + V99 + V100 + V101 +
##
##
       V102
##
##
## Step: AIC=3027.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
##
       V1 + V2 + V3 + V4 + V5 + V6 + V7 + V8 + V9 + V10 + V11 +
       V12 + V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 +
##
##
       V22 + V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V31 +
##
       V32 + V33 + V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 +
       V42 + V43 + V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 +
##
##
       V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 +
       V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70 + V71 +
##
       V72 + V73 + V74 + V75 + V76 + V77 + V78 + V79 + V80 + V81 +
##
       V82 + V83 + V84 + V85 + V86 + V87 + V88 + V89 + V90 + V91 +
##
##
       V92 + V93 + V94 + V95 + V96 + V97 + V98 + V99 + V100 + V101
##
##
## Step: AIC=3027.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
       V1 + V2 + V3 + V4 + V5 + V6 + V7 + V8 + V9 + V10 + V11 +
##
       V12 + V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 +
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##
       V22 + V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V31 +
##
       V32 + V33 + V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 +
       V42 + V43 + V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 +
##
##
       V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 +
       V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70 + V71 +
##
##
       V72 + V73 + V74 + V75 + V76 + V77 + V78 + V79 + V80 + V81 +
##
       V82 + V83 + V84 + V85 + V86 + V87 + V88 + V89 + V90 + V91 +
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##
       V92 + V93 + V94 + V95 + V96 + V97 + V98 + V99 + V100
##
##
## Step: AIC=3027.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
##
       V1 + V2 + V3 + V4 + V5 + V6 + V7 + V8 + V9 + V10 + V11 +
##
       V12 + V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 +
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       V22 + V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V31 +
       V32 + V33 + V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 +
##
       V42 + V43 + V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 +
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##
       V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 +
       V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70 + V71 +
##
##
       V72 + V73 + V74 + V75 + V76 + V77 + V78 + V79 + V80 + V81 +
       V82 + V83 + V84 + V85 + V86 + V87 + V88 + V89 + V90 + V91 +
##
       V92 + V93 + V94 + V95 + V96 + V97 + V98 + V99
##
##
##
## Step: AIC=3027.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
##
       V1 + V2 + V3 + V4 + V5 + V6 + V7 + V8 + V9 + V10 + V11 +
       V12 + V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 +
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       V22 + V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V31 +
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       V32 + V33 + V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 +
##
##
       V42 + V43 + V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 +
       V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 +
##
       V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70 + V71 +
##
       V72 + V73 + V74 + V75 + V76 + V77 + V78 + V79 + V80 + V81 +
##
       V82 + V83 + V84 + V85 + V86 + V87 + V88 + V89 + V90 + V91 +
##
       V92 + V93 + V94 + V95 + V96 + V97 + V98
##
##
##
## Step: AIC=3027.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
       V1 + V2 + V3 + V4 + V5 + V6 + V7 + V8 + V9 + V10 + V11 +
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       V12 + V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 +
##
       V22 + V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V31 +
       V32 + V33 + V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 +
##
##
       V42 + V43 + V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 +
       V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 +
##
       V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70 + V71 +
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       V72 + V73 + V74 + V75 + V76 + V77 + V78 + V79 + V80 + V81 +
##
       V82 + V83 + V84 + V85 + V86 + V87 + V88 + V89 + V90 + V91 +
##
       V92 + V93 + V94 + V95 + V96 + V97
##
##
##
## Step: AIC=3027.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
##
       V1 + V2 + V3 + V4 + V5 + V6 + V7 + V8 + V9 + V10 + V11 +
##
       V12 + V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 +
       V22 + V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V31 +
##
       V32 + V33 + V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 +
##
       V42 + V43 + V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 +
##
       V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 +
##
       V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70 + V71 +
##
##
       V72 + V73 + V74 + V75 + V76 + V77 + V78 + V79 + V80 + V81 +
       V82 + V83 + V84 + V85 + V86 + V87 + V88 + V89 + V90 + V91 +
##
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##
       V92 + V93 + V94 + V95 + V96
##
##
## Step: AIC=3027.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
##
       V1 + V2 + V3 + V4 + V5 + V6 + V7 + V8 + V9 + V10 + V11 +
##
       V12 + V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 +
##
       V22 + V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V31 +
       V32 + V33 + V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 +
##
       V42 + V43 + V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 +
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##
       V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 +
       V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70 + V71 +
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##
       V72 + V73 + V74 + V75 + V76 + V77 + V78 + V79 + V80 + V81 +
       V82 + V83 + V84 + V85 + V86 + V87 + V88 + V89 + V90 + V91 +
##
       V92 + V93 + V94 + V95
##
##
##
## Step: AIC=3027.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
##
       V1 + V2 + V3 + V4 + V5 + V6 + V7 + V8 + V9 + V10 + V11 +
       V12 + V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 +
##
       V22 + V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V31 +
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       V32 + V33 + V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 +
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       V42 + V43 + V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 +
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       V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 +
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       V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70 + V71 +
##
       V72 + V73 + V74 + V75 + V76 + V77 + V78 + V79 + V80 + V81 +
##
       V82 + V83 + V84 + V85 + V86 + V87 + V88 + V89 + V90 + V91 +
##
       V92 + V93 + V94
##
##
##
## Step: AIC=3027.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
       V1 + V2 + V3 + V4 + V5 + V6 + V7 + V8 + V9 + V10 + V11 +
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##
       V12 + V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 +
##
       V22 + V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V31 +
       V32 + V33 + V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 +
##
##
       V42 + V43 + V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 +
       V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 +
##
       V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70 + V71 +
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       V72 + V73 + V74 + V75 + V76 + V77 + V78 + V79 + V80 + V81 +
##
       V82 + V83 + V84 + V85 + V86 + V87 + V88 + V89 + V90 + V91 +
##
##
       V92 + V93
##
##
## Step: AIC=3027.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
##
       V1 + V2 + V3 + V4 + V5 + V6 + V7 + V8 + V9 + V10 + V11 +
##
       V12 + V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 +
       V22 + V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V31 +
##
       V32 + V33 + V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 +
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       V42 + V43 + V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 +
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       V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 +
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       V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70 + V71 +
##
##
       V72 + V73 + V74 + V75 + V76 + V77 + V78 + V79 + V80 + V81 +
       V82 + V83 + V84 + V85 + V86 + V87 + V88 + V89 + V90 + V91 +
##
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##
       V92
##
##
## Step: AIC=3027.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
##
       V1 + V2 + V3 + V4 + V5 + V6 + V7 + V8 + V9 + V10 + V11 +
##
       V12 + V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 +
##
       V22 + V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V31 +
       V32 + V33 + V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 +
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       V42 + V43 + V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 +
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##
       V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 +
       V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70 + V71 +
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##
       V72 + V73 + V74 + V75 + V76 + V77 + V78 + V79 + V80 + V81 +
       V82 + V83 + V84 + V85 + V86 + V87 + V88 + V89 + V90 + V91
##
##
##
## Step: AIC=3027.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
##
       V1 + V2 + V3 + V4 + V5 + V6 + V7 + V8 + V9 + V10 + V11 +
##
       V12 + V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 +
       V22 + V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V31 +
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##
       V32 + V33 + V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 +
       V42 + V43 + V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 +
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##
       V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 +
       V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70 + V71 +
##
##
       V72 + V73 + V74 + V75 + V76 + V77 + V78 + V79 + V80 + V81 +
       V82 + V83 + V84 + V85 + V86 + V87 + V88 + V89 + V90
##
##
##
## Step: AIC=3027.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
##
       V1 + V2 + V3 + V4 + V5 + V6 + V7 + V8 + V9 + V10 + V11 +
##
       V12 + V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 +
       V22 + V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V31 +
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       V32 + V33 + V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 +
##
       V42 + V43 + V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 +
       V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 +
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##
       V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70 + V71 +
       V72 + V73 + V74 + V75 + V76 + V77 + V78 + V79 + V80 + V81 +
##
       V82 + V83 + V84 + V85 + V86 + V87 + V88 + V89
##
##
##
## Step: AIC=3027.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
##
       V1 + V2 + V3 + V4 + V5 + V6 + V7 + V8 + V9 + V10 + V11 +
       V12 + V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 +
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       V22 + V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V31 +
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       V32 + V33 + V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 +
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       V42 + V43 + V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 +
       V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 +
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       V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70 + V71 +
##
       V72 + V73 + V74 + V75 + V76 + V77 + V78 + V79 + V80 + V81 +
##
       V82 + V83 + V84 + V85 + V86 + V87 + V88
##
##
##
## Step: AIC=3027.92
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## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
       V1 + V2 + V3 + V4 + V5 + V6 + V7 + V8 + V9 + V10 + V11 +
##
       V12 + V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 +
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       V22 + V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V31 +
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       V32 + V33 + V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 +
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       V42 + V43 + V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 +
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       V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 +
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       V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70 + V71 +
       V72 + V73 + V74 + V75 + V76 + V77 + V78 + V79 + V80 + V81 +
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       V82 + V83 + V84 + V85 + V86 + V87
##
##
##
## Step: AIC=3027.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
       V1 + V2 + V3 + V4 + V5 + V6 + V7 + V8 + V9 + V10 + V11 +
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       V12 + V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 +
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       V22 + V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V31 +
       V32 + V33 + V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 +
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       V42 + V43 + V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 +
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       V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 +
       V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70 + V71 +
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       V72 + V73 + V74 + V75 + V76 + V77 + V78 + V79 + V80 + V81 +
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       V82 + V83 + V84 + V85 + V86
##
##
##
## Step: AIC=3027.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
       V1 + V2 + V3 + V4 + V5 + V6 + V7 + V8 + V9 + V10 + V11 +
##
       V12 + V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 +
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       V22 + V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V31 +
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       V32 + V33 + V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 +
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       V42 + V43 + V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 +
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       V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 +
       V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70 + V71 +
##
       V72 + V73 + V74 + V75 + V76 + V77 + V78 + V79 + V80 + V81 +
##
       V82 + V83 + V84 + V85
##
##
##
## Step: AIC=3027.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
       V1 + V2 + V3 + V4 + V5 + V6 + V7 + V8 + V9 + V10 + V11 +
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       V12 + V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 +
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       V22 + V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V31 +
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       V32 + V33 + V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 +
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       V42 + V43 + V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 +
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       V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 +
##
       V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70 + V71 +
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##
       V72 + V73 + V74 + V75 + V76 + V77 + V78 + V79 + V80 + V81 +
       V82 + V83 + V84
##
##
##
## Step: AIC=3027.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
       V1 + V2 + V3 + V4 + V5 + V6 + V7 + V8 + V9 + V10 + V11 +
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##
       V12 + V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 +
       V22 + V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V31 +
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V32 + V33 + V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 +
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       V42 + V43 + V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 +
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       V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 +
##
       V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70 + V71 +
##
       V72 + V73 + V74 + V75 + V76 + V77 + V78 + V79 + V80 + V81 +
##
##
       V82 + V83
##
##
## Step: AIC=3027.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
##
       V1 + V2 + V3 + V4 + V5 + V6 + V7 + V8 + V9 + V10 + V11 +
       V12 + V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 +
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       V22 + V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V31 +
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       V32 + V33 + V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 +
       V42 + V43 + V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 +
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       V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 +
       V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70 + V71 +
##
##
       V72 + V73 + V74 + V75 + V76 + V77 + V78 + V79 + V80 + V81 +
##
       V82
##
##
## Step: AIC=3027.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
##
       V1 + V2 + V3 + V4 + V5 + V6 + V7 + V8 + V9 + V10 + V11 +
       V12 + V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 +
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       V22 + V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V31 +
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       V32 + V33 + V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 +
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       V42 + V43 + V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 +
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       V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 +
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       V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70 + V71 +
##
       V72 + V73 + V74 + V75 + V76 + V77 + V78 + V79 + V80 + V81
##
##
##
## Step: AIC=3027.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
##
       V1 + V2 + V3 + V4 + V5 + V6 + V7 + V8 + V9 + V10 + V11 +
       V12 + V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 +
##
##
       V22 + V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V31 +
##
       V32 + V33 + V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 +
       V42 + V43 + V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 +
##
       V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 +
##
       V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70 + V71 +
##
##
       V72 + V73 + V74 + V75 + V76 + V77 + V78 + V79 + V80
##
##
## Step: AIC=3027.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
##
       V1 + V2 + V3 + V4 + V5 + V6 + V7 + V8 + V9 + V10 + V11 +
##
       V12 + V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 +
       V22 + V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V31 +
##
       V32 + V33 + V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 +
##
       V42 + V43 + V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 +
##
       V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 +
##
       V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70 + V71 +
##
##
       V72 + V73 + V74 + V75 + V76 + V77 + V78 + V79
##
```

```
##
## Step: AIC=3027.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
       V1 + V2 + V3 + V4 + V5 + V6 + V7 + V8 + V9 + V10 + V11 +
##
       V12 + V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 +
##
##
       V22 + V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V31 +
##
       V32 + V33 + V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 +
##
       V42 + V43 + V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 +
       V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 +
##
       V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70 + V71 +
##
       V72 + V73 + V74 + V75 + V76 + V77 + V78
##
##
##
## Step: AIC=3027.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
##
       V1 + V2 + V3 + V4 + V5 + V6 + V7 + V8 + V9 + V10 + V11 +
##
       V12 + V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 +
       V22 + V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V31 +
##
       V32 + V33 + V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 +
##
##
       V42 + V43 + V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 +
       V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 +
##
       V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70 + V71 +
##
       V72 + V73 + V74 + V75 + V76 + V77
##
##
##
## Step: AIC=3027.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
       V1 + V2 + V3 + V4 + V5 + V6 + V7 + V8 + V9 + V10 + V11 +
##
       V12 + V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 +
##
       V22 + V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V31 +
##
       V32 + V33 + V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 +
##
       V42 + V43 + V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 +
##
##
       V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 +
       V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70 + V71 +
##
       V72 + V73 + V74 + V75 + V76
##
##
##
## Step: AIC=3027.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
       V1 + V2 + V3 + V4 + V5 + V6 + V7 + V8 + V9 + V10 + V11 +
##
       V12 + V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 +
##
       V22 + V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V31 +
##
       V32 + V33 + V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 +
##
       V42 + V43 + V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 +
##
##
       V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 +
       V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70 + V71 +
##
       V72 + V73 + V74 + V75
##
##
##
## Step: AIC=3027.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
       V1 + V2 + V3 + V4 + V5 + V6 + V7 + V8 + V9 + V10 + V11 +
##
       V12 + V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 +
##
       V22 + V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V31 +
##
##
       V32 + V33 + V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 +
       V42 + V43 + V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 +
##
```

```
V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 +
##
       V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70 + V71 +
##
       V72 + V73 + V74
##
##
##
## Step: AIC=3027.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
##
       V1 + V2 + V3 + V4 + V5 + V6 + V7 + V8 + V9 + V10 + V11 +
       V12 + V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 +
##
       V22 + V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V31 +
##
##
       V32 + V33 + V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 +
       V42 + V43 + V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 +
##
##
       V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 +
       V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70 + V71 +
##
       V72 + V73
##
##
##
## Step: AIC=3027.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
##
       V1 + V2 + V3 + V4 + V5 + V6 + V7 + V8 + V9 + V10 + V11 +
       V12 + V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 +
##
       V22 + V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V31 +
##
       V32 + V33 + V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 +
##
       V42 + V43 + V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 +
##
       V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 +
##
       V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70 + V71 +
##
##
       V72
##
##
## Step: AIC=3027.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
##
       V1 + V2 + V3 + V4 + V5 + V6 + V7 + V8 + V9 + V10 + V11 +
##
       V12 + V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 +
       V22 + V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V31 +
##
##
       V32 + V33 + V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 +
       V42 + V43 + V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 +
##
       V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 +
##
##
       V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70 + V71
##
##
## Step: AIC=3027.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
       V1 + V2 + V3 + V4 + V5 + V6 + V7 + V8 + V9 + V10 + V11 +
##
       V12 + V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 +
##
       V22 + V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V31 +
##
       V32 + V33 + V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 +
##
       V42 + V43 + V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 +
##
       V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 +
##
       V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70
##
##
##
## Step: AIC=3027.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
       V1 + V2 + V3 + V4 + V5 + V6 + V8 + V9 + V10 + V11 + V12 +
##
##
       V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 + V22 +
       V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V31 + V32 +
##
```

```
##
       V33 + V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 + V42 +
       V43 + V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 + V52 +
##
       V53 + V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 + V62 +
##
       V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70
##
##
##
                           Df Sum of Sq
                                                       AIC
                                                RSS
## - V31
                            1
                                       2
                                           4830338 3025.9
## - V24
                            1
                                       2
                                           4830338 3025.9
## - V14
                                           4830341 3025.9
                            1
                                       5
## - V61
                            1
                                       5
                                           4830341 3025.9
## - V46
                                       7
                            1
                                           4830343 3025.9
## - V33
                                           4830350 3025.9
                            1
                                      14
## - V21
                            1
                                      18
                                           4830354 3025.9
## - V27
                            1
                                      22
                                           4830358 3025.9
## - V28
                            1
                                      26
                                           4830362 3025.9
## - V44
                            1
                                      28
                                           4830364 3025.9
## - V41
                            1
                                      35
                                           4830371 3025.9
## - V10
                            1
                                      82
                                           4830418 3025.9
## - V43
                            1
                                      94
                                           4830430 3025.9
## - V11
                            1
                                     145
                                           4830481 3025.9
## - V36
                            1
                                     170
                                           4830506 3025.9
## - V67
                            1
                                     189
                                           4830525 3025.9
## - V54
                            1
                                     230
                                           4830566 3025.9
## - V18
                            1
                                     307
                                           4830643 3025.9
## - V39
                            1
                                           4830679 3025.9
                                     343
## - V49
                            1
                                     354
                                           4830690 3025.9
## - V30
                            1
                                     375
                                           4830711 3025.9
## - V60
                            1
                                           4830753 3025.9
                                     417
## - V29
                            1
                                     435
                                           4830771 3025.9
## - V25
                            1
                                     450
                                           4830786 3025.9
## - V62
                            1
                                     518
                                           4830854 3026.0
## - V63
                            1
                                     557
                                           4830893 3026.0
## - V35
                            1
                                     640
                                           4830976 3026.0
## - V56
                            1
                                           4831048 3026.0
                                     712
## - V68
                            1
                                     754
                                           4831090 3026.0
## - V57
                            1
                                     778
                                           4831114 3026.0
## - V52
                            1
                                     784
                                           4831120 3026.0
## - V9
                            1
                                     796
                                           4831133 3026.0
## - V16
                            1
                                     864
                                           4831200 3026.0
## - `START YEAR`
                            1
                                     949
                                           4831285 3026.0
## - V34
                            1
                                     974
                                           4831310 3026.0
## - V38
                            1
                                    1056
                                           4831392 3026.0
## - V51
                            1
                                    1086
                                           4831422 3026.0
## - V55
                            1
                                    1106
                                           4831442 3026.0
## - V58
                            1
                                    1253
                                           4831589 3026.0
## - V15
                            1
                                    1485
                                           4831821 3026.0
## - V66
                            1
                                    1545
                                           4831881 3026.0
## - V48
                            1
                                           4831888 3026.0
                                    1552
## - V59
                            1
                                    1842
                                           4832178 3026.0
## - V50
                            1
                                    1865
                                           4832201 3026.0
## - V40
                            1
                                    1920
                                           4832256 3026.0
## - V13
                            1
                                    2100
                                           4832436 3026.0
## - V17
                            1
                                           4832578 3026.1
                                    2242
## - V42
                            1
                                    2295
                                           4832631 3026.1
## - V53
                            1
                                    2561
                                           4832897 3026.1
## - V22
                            1
                                    2596
                                           4832932 3026.1
```

```
## - V19
                            1
                                   2693
                                          4833029 3026.1
## - V20
                            1
                                   2942
                                          4833278 3026.1
## - V69
                            1
                                   3206
                                          4833542 3026.1
## - V23
                            1
                                   3240
                                          4833576 3026.1
## - V12
                            1
                                   4879
                                          4835215 3026.2
## - V45
                            1
                                   5598
                                          4835934 3026.3
## - V32
                            1
                                   7515
                                          4837851 3026.4
## - V26
                            1
                                   8259
                                          4838595 3026.4
## - V65
                                   9238
                                          4839574 3026.5
                            1
## - V64
                            1
                                   9606
                                          4839942 3026.5
## - V47
                            1
                                  10089
                                          4840425 3026.5
## - `START QUARTER`
                            1
                                  10564
                                          4840901 3026.6
## - V4
                            1
                                  11925
                                          4842261 3026.7
## - V70
                            1
                                  12545
                                          4842881 3026.7
## - V37
                            1
                                  12889
                                          4843225 3026.7
## <none>
                                          4830336 3027.9
## - V1
                            1
                                  66403
                                          4896739 3030.0
## - V6
                            1
                                 112608
                                          4942944 3032.8
## - V2
                            1
                                 134027
                                          4964363 3034.0
## - V5
                            1
                                 148065
                                          4978401 3034.9
## - V3
                            1
                                 264264
                                          5094600 3041.7
## - `COMPLETION QUARTER`
                           1
                                 698315
                                          5528651 3066.0
## - `COMPLETION YEAR`
                                 725251
                            1
                                          5555587 3067.5
## - V8
                            1 100688495 105518831 3941.9
##
## Step: AIC=3025.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
       V1 + V2 + V3 + V4 + V5 + V6 + V8 + V9 + V10 + V11 + V12 +
##
       V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 + V22 +
##
       V23 + V24 + V25 + V26 + V27 + V28 + V29 + V30 + V32 + V33 +
##
       V34 + V35 + V36 + V37 + V38 + V39 + V40 + V41 + V42 + V43 +
##
       V44 + V45 + V46 + V47 + V48 + V49 + V50 + V51 + V52 + V53 +
##
##
       V54 + V55 + V56 + V57 + V58 + V59 + V60 + V61 + V62 + V63 +
       V64 + V65 + V66 + V67 + V68 + V69 + V70
##
##
##
                           Df Sum of Sq
                                               RSS
                                                      AIC
## - V24
                            1
                                      1
                                          4830339 3023.9
## - V61
                            1
                                     10
                                          4830348 3023.9
## - V33
                            1
                                     22
                                          4830360 3023.9
## - V46
                            1
                                          4830384 3023.9
                                     46
## - V21
                                          4830407 3023.9
                            1
                                     69
## - V43
                            1
                                    119
                                          4830457 3023.9
## - V41
                            1
                                          4830505 3023.9
                                    167
## - V11
                            1
                                    174
                                          4830512 3023.9
## - V67
                            1
                                    199
                                          4830537 3023.9
## - V36
                            1
                                    214
                                          4830552 3023.9
## - V54
                            1
                                    235
                                          4830573 3023.9
## - V28
                            1
                                          4830641 3023.9
                                    303
## - V18
                            1
                                    325
                                          4830663 3023.9
## - V30
                            1
                                    374
                                          4830712 3023.9
## - V60
                            1
                                    415
                                          4830753 3023.9
## - V29
                            1
                                    436
                                          4830774 3023.9
## - V25
                            1
                                    469
                                          4830807 3023.9
## - V49
                            1
                                    513
                                          4830851 3023.9
## - V14
                            1
                                    595
                                          4830933 3024.0
## - V10
                            1
                                    647
                                          4830985 3024.0
```

I	## - V44		1	705	4831043	3024.0
	## - V35		1	725	4831063	3024.0
	## - V39		1	784	4831122	3024.0
ı	## - V52		1	814	4831152	3024.0
ı	## - V9		1	835	4831173	3024.0
	## - V27		1	942	4831280	3024.0
ı	## - V57		1	1156	4831494	3024.0
	## - V68		1	1191	4831529	3024.0
	## - V62		1	1300	4831638	3024.0
	## - V16		1	1402	4831740	3024.0
	## - V34		1	1404	4831742	3024.0
	## - V58		1	1501	4831839	3024.0
ı	## - V56		1	1545	4831883	3024.0
ı	## - V15		1	1590	4831928	3024.0
	## - V38		1	2087	4832425	3024.0
ı	## - V55		1	2097	4832435	3024.0
ı	## - V66		1	2228	4832566	
ı	## - V50		1	2229		
ı	## - V17		1	2555	4832893	
ı	## - V53		1	2637	4832975	
ı	## - V40		1	2672		
	## - V19		1	2758	4833096	
	## - `START	VEAR`	1	3024	4833362	
	## - V22	ILAN	1	3448		
ı			1		4833780	
ı	## - V20 ## - V42		1	4183	4834912	
				4574		
	## - V48		1	4859 6076		
	## - V13		1			
ı	## - V45		1	6226	4836564	
	## - V63		1	6783		
ı	## - V69		1	7346	4837684	
	## - V51		1	7390	4837728	
	## - V23		1		4837883	
ı	## - V12		1	7909		
	## - V59		1	8138	4838476	
ı	## - V26		1		4838696	
	## - V32		1		4840233	
	## - V64		1		4840260	
ı	## - V47		1		4840549	
	## - V4		1		4842261	
ı	## - V65		1	12234		
	## - `START	QUARTER`	1		4843010	
ı	## - V70		1		4852560	
ı	## - V37		1	22523	4852861	3025.3
	## <none></none>				4830338	3025.9
ı	## + V100		1	2	4830336	3027.9
	## + V81		1	2	4830336	
	## + V73		1	2	4830336	3027.9
	## + V97		1	2	4830336	3027.9
	## + V71		1	2	4830336	3027.9
	## + V78		1	2	4830336	3027.9
	## + V84		1	2	4830336	3027.9
	## + V85		1	2	4830336	3027.9
	## + V89		1	2	4830336	3027.9
	## + V93		1	2	4830336	3027.9
	## + V95		1	2	4830336	3027.9
1						

```
## + V99
                            1
                                      2
                                          4830336 3027.9
## + V72
                                      2
                            1
                                          4830336 3027.9
## + V74
                                      2
                            1
                                          4830336 3027.9
## + V75
                            1
                                      2
                                          4830336 3027.9
                                          4830336 3027.9
## + V77
                            1
                                      2
## + V80
                           1
                                      2
                                          4830336 3027.9
## + V86
                            1
                                      2
                                          4830336 3027.9
## + V88
                           1
                                      2
                                          4830336 3027.9
## + V90
                                          4830336 3027.9
                            1
                                      2
## + V91
                           1
                                      2
                                          4830336 3027.9
## + V94
                            1
                                      2
                                          4830336 3027.9
## + V96
                                      2
                           1
                                          4830336 3027.9
## + V98
                           1
                                      2
                                          4830336 3027.9
## + V31
                           1
                                      2
                                          4830336 3027.9
## + V76
                            1
                                      2
                                          4830336 3027.9
## + V79
                            1
                                      2
                                          4830336 3027.9
## + V82
                            1
                                      2
                                          4830336 3027.9
## + V101
                           1
                                      2
                                          4830336 3027.9
## + V102
                                      2
                            1
                                          4830336 3027.9
## + V103
                           1
                                      2
                                          4830336 3027.9
## + V92
                                      2
                                          4830336 3027.9
                            1
## + V87
                            1
                                      2
                                          4830336 3027.9
## + V83
                            1
                                      2
                                          4830336 3027.9
## - V1
                           1
                                  66427
                                          4896765 3028.0
## - V6
                                          4943377 3030.8
                            1
                                 113040
## - V2
                            1
                                 134137
                                          4964475 3032.1
## - V5
                            1
                                 148331
                                          4978669 3032.9
## - V3
                            1
                                 264506
                                          5094844 3039.8
## - `COMPLETION QUARTER`
                                          5529030 3064.0
                           1
                                 698692
## - `COMPLETION YEAR`
                                 728567
                                          5558905 3065.6
                           1
## - V8
                           1 100696138 105526476 3939.9
##
## Step: AIC=3023.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
##
       V1 + V2 + V3 + V4 + V5 + V6 + V8 + V9 + V10 + V11 + V12 +
##
       V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 + V22 +
       V23 + V25 + V26 + V27 + V28 + V29 + V30 + V32 + V33 + V34 +
##
##
       V35 + V36 + V37 + V38 + V39 + V40 + V41 + V42 + V43 + V44 +
##
       V45 + V46 + V47 + V48 + V49 + V50 + V51 + V52 + V53 + V54 +
##
       V55 + V56 + V57 + V58 + V59 + V60 + V61 + V62 + V63 + V64 +
       V65 + V66 + V67 + V68 + V69 + V70
##
##
##
                           Df Sum of Sq
                                              RSS
                                                      AIC
## - V61
                            1
                                      8
                                          4830348 3021.9
## - V33
                           1
                                     24
                                          4830363 3021.9
## - V46
                            1
                                     48
                                          4830388 3021.9
## - V21
                            1
                                     68
                                          4830408 3021.9
## - V41
                            1
                                    167
                                          4830506 3021.9
## - V11
                           1
                                    173
                                          4830512 3021.9
## - V28
                            1
                                    304
                                          4830643 3021.9
## - V54
                           1
                                    323
                                          4830663 3021.9
## - V60
                            1
                                    433
                                          4830772 3021.9
## - V29
                           1
                                    454
                                          4830793 3021.9
## - V67
                           1
                                    468
                                          4830807 3021.9
## - V36
                           1
                                    482
                                          4830821 3021.9
## - V43
                            1
                                    523
                                          4830862 3022.0
```

## - V14	1	656	4830995 3022.0
## - V10	1	658	4830998 3022.0
## - V25	1	741	4831080 3022.0
## - V30	1	782	4831122 3022.0
## - V49	1	803	4831143 3022.0
## - V44	1	810	4831149 3022.0
## - V27	1	1170	4831509 3022.0
## - V35	1	1346	4831686 3022.0
## - V16	1	1402	4831741 3022.0
## - V39	1	1551	4831891 3022.0
## - V68	1	1649	4831988 3022.0
## - V15	1	1683	4832022 3022.0
## - V18	1	2019	4832358 3022.0
## - V34	1	2039	4832378 3022.0
## - V52	1	2155	4832495 3022.1
## - V9	1	2694	4833033 3022.1
## - V50	1	3464	4833804 3022.1
## - V62	1	3836	4834175 3022.2
## - V40	1	4485	4834824 3022.2
## - V56	1		4834837 3022.2
## - V55	1		4835050 3022.2
## - V42	1	4748	4835087 3022.2
## - V57	1		4835189 3022.2
## - V45	1	6664	4837004 3022.3
## - V53	1	7174	4837514 3022.4
## - `START YEAR`	1		4837588 3022.4
## - V19	1		4837606 3022.4
## - V69	1	7794	
## - V58	1		4838767 3022.4
## - V66	1		4838894 3022.4
## - V63	1		4838911 3022.4
## - V12	1		4839204 3022.5
## - V12	1		4839632 3022.5
## - V47	1	10291	
## - V47 ## - V59	1		4840766 3022.6
## - V26	1		4840777 3022.6
## - V64	1	10438	
## - V17	1		4841312 3022.6
## - V1/ ## - V4	1		4842392 3022.7
## - V20	1	12911	
## - `START QUARTER` ## - V32	1 1		4843961 3022.8 4846615 3022.9
## - V65	1		4846821 3022.9
## - V13	1		4847411 3023.0
## - V51	1		4848102 3023.0
## - V22	1	19251	
## - V48	1	23121	
## - V23	1		4855448 3023.5
## - V70	1	29426	
## <none></none>	a	2422	4830339 3023.9
## - V37	1		4864675 3024.0
## + V82	1	3	4830336 3025.9
## + V96	1	3	4830336 3025.9
	- 1	2	4830336 3025.9
## + V100	1		
## + V100 ## + V79 ## + V85	1 1 1		4830336 3025.9

```
## + V103
                           1
                                      3
                                          4830336 3025.9
## + V92
                                      3
                            1
                                          4830336 3025.9
## + V102
                                      3
                            1
                                          4830336 3025.9
## + V89
                            1
                                      3
                                          4830336 3025.9
## + V94
                           1
                                          4830336 3025.9
                                      3
## + V91
                           1
                                      3
                                          4830336 3025.9
## + V86
                            1
                                      3
                                          4830337 3025.9
## + V98
                           1
                                      2
                                          4830337 3025.9
## + V76
                                          4830337 3025.9
                            1
                                      2
## + V77
                           1
                                      2
                                          4830337 3025.9
## + V101
                            1
                                      2
                                          4830338 3025.9
## + V90
                           1
                                      2
                                          4830338 3025.9
## + V80
                           1
                                      2
                                          4830338 3025.9
## + V24
                           1
                                      1
                                          4830338 3025.9
## + V72
                            1
                                      1
                                          4830338 3025.9
## + V31
                            1
                                      1
                                          4830338 3025.9
## + V81
                            1
                                      1
                                          4830338 3025.9
## + V99
                            1
                                          4830339 3025.9
                                      1
## + V74
                            1
                                      1
                                          4830339 3025.9
## + V83
                            1
                                      1
                                          4830339 3025.9
## + V88
                            1
                                      1
                                          4830339 3025.9
## + V95
                            1
                                      0
                                          4830339 3025.9
## + V87
                            1
                                      0
                                          4830339 3025.9
## + V71
                           1
                                      0
                                          4830339 3025.9
## + V93
                            1
                                      0
                                          4830339 3025.9
## + V75
                            1
                                      0
                                          4830339 3025.9
## + V73
                                          4830339 3025.9
                            1
                                      0
## + V97
                           1
                                      0
                                          4830339 3025.9
## + V84
                            1
                                      0
                                          4830339 3025.9
## + V78
                           1
                                          4830339 3025.9
                                      0
## - V1
                           1
                                          4896777 3026.0
                                  66437
## - V6
                           1
                                 113671
                                          4944011 3028.8
## - V2
                           1
                                136398
                                          4966737 3030.2
## - V5
                                          4979304 3030.9
                            1
                                 148964
## - V3
                            1
                                 266783
                                          5097122 3037.9
## - `COMPLETION QUARTER`
                           1
                                 707628
                                          5537967 3062.5
## - `COMPLETION YEAR`
                           1
                                 735796
                                          5566135 3064.0
## - V8
                            1 100754067 105584406 3938.0
##
## Step: AIC=3021.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
##
       V1 + V2 + V3 + V4 + V5 + V6 + V8 + V9 + V10 + V11 + V12 +
##
       V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 + V22 +
       V23 + V25 + V26 + V27 + V28 + V29 + V30 + V32 + V33 + V34 +
##
##
       V35 + V36 + V37 + V38 + V39 + V40 + V41 + V42 + V43 + V44 +
       V45 + V46 + V47 + V48 + V49 + V50 + V51 + V52 + V53 + V54 +
##
       V55 + V56 + V57 + V58 + V59 + V60 + V62 + V63 + V64 + V65 +
##
       V66 + V67 + V68 + V69 + V70
##
##
                           Df Sum of Sq
##
                                              RSS
                                                     AIC
## - V33
                           1
                                     16
                                          4830364 3019.9
## - V21
                            1
                                     67
                                          4830415 3019.9
## - V41
                           1
                                    172
                                          4830519 3019.9
## - V46
                           1
                                    218
                                          4830566 3019.9
## - V11
                           1
                                    404
                                          4830752 3019.9
## - V43
                            1
                                    534
                                          4830882 3020.0
```

## -	V67	1	578	4830926	3020.0	
## -	V60	1	584	4830932	3020.0	
## -	V36	1	651	4830999	3020.0	
## -	V14	1	842	4831190	3020.0	
## -	V44	1	959	4831307	3020.0	
## -	V30	1	1040	4831387	3020.0	
## -	V25	1	1112	4831460	3020.0	
## -	V54	1	1127	4831475	3020.0	
## -	V27	1	1183	4831531		
## -	V28	1	1411	4831759		
## -	V35	1	1520	4831867		
## -	V39	1	1543	4831891	3020.0	
## -	V49	1	1874	4832222		
## -	V29	1	1876	4832224		
## -		1	2045	4832392		
## -		1	3126	4833473		
## -	V52	1	3342	4833690		
## -	V10	1	3536	4833884	3020.1	
## -	V62	1	3829	4834176		
## -	V50	1	4304	4834652	3020.2	
## -	V55	1	5007	4835355	3020.2	
## -	V56	1	5229	4835577	3020.2	
## -	V68	1	5423	4835771	3020.3	
## -	V57	1	5625	4835973	3020.3	
## -	V34	1	6204	4836552	3020.3	
## -	V15	1	6341	4836688	3020.3	
## -	V45	1	6676	4837023	3020.3	
## -	V16	1	7884	4838232	3020.4	
## -	V42	1	8268	4838616	3020.4	
## -	V58	1	8745	4839093	3020.5	
## -	V12	1	8881	4839229	3020.5	
## -	V69	1	9080	4839428	3020.5	
## -	V19	1	9085	4839433		
## -	V40	1	9689	4840037	3020.5	
## -		1	10461	4840808		
## -		1	10571	4840918		
## -		1	10707	4841054		
## -		1	11119	4841467		
## -		1	11514	4841861		
	`START YEAR`	1	11813	4842160		
## -		1	12074	4842422		
## -		1	12904	4843251		
## -		1	13146	4843494		
	`START QUARTER`	1				
	-		13983	4844331		
## -		1	14204	4844552		
## -		1	15835	4846182		
## -		1	16530	4846877		
## -		1	17953	4848301		
## -		1	18178	4848526		
## -		1	20372	4850720		
## -		1	23162	4853510		
## -		1	23308	4853655		
## -	V32	1	23809	4854157	3021.4	
## -	V70	1	29484	4859832	3021.7	
## <r< td=""><td>none></td><td></td><td></td><td>4830348</td><td>3021.9</td><td></td></r<>	none>			4830348	3021.9	
## -	V23	1	44698	4875046	3022.7	

```
## - V37
                                  51539
                            1
                                          4881887 3023.1
## + V102
                            1
                                     12
                                          4830336 3023.9
## + V89
                            1
                                     11
                                          4830336 3023.9
## + V76
                            1
                                     11
                                          4830337 3023.9
                                          4830337 3023.9
## + V86
                            1
                                     10
## + V100
                            1
                                     10
                                          4830338 3023.9
## + V98
                            1
                                     10
                                          4830338 3023.9
## + V83
                            1
                                      9
                                          4830339 3023.9
## + V87
                                      9
                                          4830339 3023.9
                            1
## + V61
                            1
                                      8
                                          4830339 3023.9
## + V84
                            1
                                      8
                                          4830339 3023.9
## + V103
                                      7
                            1
                                          4830340 3023.9
## + V77
                            1
                                      7
                                          4830341 3023.9
## + V95
                            1
                                      6
                                          4830341 3023.9
## + V99
                            1
                                      5
                                          4830343 3023.9
## + V31
                            1
                                      5
                                          4830343 3023.9
## + V81
                            1
                                      4
                                          4830343 3023.9
## + V79
                            1
                                      4
                                          4830343 3023.9
## + V96
                            1
                                      4
                                          4830343 3023.9
## + V71
                            1
                                      4
                                          4830344 3023.9
## + V90
                                      3
                                          4830345 3023.9
                            1
## + V101
                            1
                                      3
                                          4830345 3023.9
## + V92
                                      2
                            1
                                          4830345 3023.9
## + V94
                            1
                                      2
                                          4830346 3023.9
## + V74
                                      2
                                          4830346 3023.9
                            1
## + V73
                            1
                                      2
                                          4830346 3023.9
## + V75
                            1
                                      2
                                          4830346 3023.9
## + V80
                            1
                                      1
                                          4830347 3023.9
## + V88
                            1
                                      1
                                          4830347 3023.9
## + V93
                            1
                                      0
                                          4830347 3023.9
## + V72
                            1
                                      0
                                          4830348 3023.9
## + V91
                            1
                                      0
                                          4830348 3023.9
## + V82
                            1
                                      0
                                          4830348 3023.9
## + V85
                            1
                                      0
                                          4830348 3023.9
## + V24
                            1
                                      0
                                          4830348 3023.9
## + V78
                            1
                                      0
                                          4830348 3023.9
## + V97
                            1
                                      0
                                          4830348 3023.9
## - V1
                            1
                                  66720
                                          4897067 3024.0
## - V6
                            1
                                 114268
                                          4944616 3026.9
## - V2
                            1
                                 138106
                                          4968453 3028.3
## - V5
                            1
                                 149674
                                          4980022 3029.0
## - V3
                            1
                                 268604
                                          5098952 3036.0
## - `COMPLETION QUARTER`
                           1
                                 707650
                                          5537998 3060.5
## - `COMPLETION YEAR`
                            1
                                 741742
                                          5572090 3062.3
## - V8
                            1 100838091 105668439 3936.3
##
## Step: AIC=3019.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
##
       V1 + V2 + V3 + V4 + V5 + V6 + V8 + V9 + V10 + V11 + V12 +
       V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V21 + V22 +
##
       V23 + V25 + V26 + V27 + V28 + V29 + V30 + V32 + V34 + V35 +
##
##
       V36 + V37 + V38 + V39 + V40 + V41 + V42 + V43 + V44 + V45 +
##
       V46 + V47 + V48 + V49 + V50 + V51 + V52 + V53 + V54 + V55 +
       V56 + V57 + V58 + V59 + V60 + V62 + V63 + V64 + V65 + V66 +
##
##
       V67 + V68 + V69 + V70
##
```

ì		_	_		
	##		Sum of Sq	RSS	AIC
ı	## - V21	1	51	4830415	
ı	## - V46	1	202	4830566	
ı	## - V41	1	294	4830659	
ı	## - V60	1	572	4830936	
ı	## - V36	1	634	4830999	
ı	## - V11	1	649	4831013	3018.0
ı	## - V43	1	650	4831014	3018.0
ı	## - V67	1	739	4831103	3018.0
ı	## - V14	1	845	4831209	3018.0
ı	## - V44	1	1032	4831397	3018.0
ı	## - V25	1	1099	4831464	3018.0
ı	## - V27	1	1281	4831645	3018.0
ı	## - V54	1	1392	4831756	3018.0
ı	## - V30	1	1415	4831779	3018.0
ı	## - V29	1	1864	4832228	3018.0
ı	## - V 49	1	1868	4832232	3018.0
ı	## - V39	1	2006	4832370	3018.0
ı	## - V35	1	2012	4832376	3018.0
ı	## - V18	1	2158	4832523	3018.1
ı	## - V28	1	2304	4832669	3018.1
ı	## - V 9	1	3291	4833655	3018.1
ı	## - V52	1	3599	4833964	3018.1
ı	## - V50	1	4386	4834750	3018.2
ı	## - V62	1	4797	4835162	3018.2
ı	## - V10	1	5122	4835486	
ı	## - V56	1	5213	4835577	3018.2
ı	## - V68	1	5608	4835972	
ı	## - V57	1	6091	4836455	
ı	## - V55	1	6190	4836555	
ı	## - V34	1	6451	4836815	
ı	## - V15	1	6741	4837105	
ı	## - V16	1	8090		
ı	## - V42	1	8533		
ı	## - V58	1	9670		
ı	## - V45	1	9944		
ı	## - V69	1	10161		
ı	## - V38	1	10657		
ı	## - V19	1	10881		
ı	## - V12	1	11322		
ı	## - V47	1	11512		
ı	## - V40	1	12037		
ı	## - V4	1	12037		
ı	## - V4 ## - V17	1		4842488	
	## - V17 ## - V20	1	12124		
ı					
	## - V53 ## - `START YEAR`	1 1	13194 14257		
	## - START YEAR ## - V64				
		1	15254		
	## - V26	1	15676		
	## - `START QUARTER`	1		4846655	
	## - V66	1	16393		
	## - V59	1	17989		
	## - V65	1	18713		
	## - V13	1	20837		
	## - V51	1	20855		
	## - V63	1	24208	4854572	3019.4
- 1					

```
## - V48
                                         4855701 3019.5
                           1
                                 25337
## - V22
                           1
                                 25652
                                         4856016 3019.5
## - V32
                           1
                                 29417
                                         4859781 3019.7
## <none>
                                         4830364 3019.9
## - V70
                           1
                                 36864
                                         4867228 3020.2
## - V23
                           1
                                 47002
                                         4877366 3020.8
## - V37
                           1
                                 51528
                                         4881892 3021.1
## + V89
                           1
                                    27
                                         4830337 3021.9
## + V83
                                    25
                                         4830339 3021.9
                           1
## + V84
                           1
                                    25
                                         4830340 3021.9
## + V87
                           1
                                    24
                                         4830340 3021.9
## + V103
                           1
                                    22
                                         4830342 3021.9
## + V79
                           1
                                    19
                                         4830345 3021.9
## + V80
                           1
                                    16
                                         4830348 3021.9
## + V33
                           1
                                    16
                                         4830348 3021.9
## + V98
                           1
                                    15
                                         4830349 3021.9
## + V91
                           1
                                    12
                                         4830352 3021.9
## + V85
                           1
                                    12
                                         4830353 3021.9
## + V100
                           1
                                    11
                                         4830353 3021.9
## + V102
                           1
                                    11
                                         4830353 3021.9
## + V97
                           1
                                    10
                                         4830354 3021.9
## + V31
                           1
                                     9
                                         4830356 3021.9
## + V72
                                         4830357 3021.9
                           1
                                     8
## + V93
                           1
                                     7
                                         4830357 3021.9
## + V96
                           1
                                     6
                                         4830358 3021.9
## + V86
                           1
                                     6
                                         4830358 3021.9
## + V99
                           1
                                     6
                                         4830358 3021.9
## + V92
                           1
                                     6
                                         4830359 3021.9
## + V82
                                         4830359 3021.9
                           1
                                     5
## + V74
                           1
                                     5
                                         4830359 3021.9
## + V24
                           1
                                     4
                                         4830360 3021.9
## + V95
                           1
                                     4
                                         4830360 3021.9
## + V88
                           1
                                     4
                                         4830361 3021.9
## + V81
                           1
                                     2
                                         4830362 3021.9
## + V78
                           1
                                     2
                                         4830362 3021.9
## + V94
                           1
                                     2
                                         4830363 3021.9
## + V76
                           1
                                     2
                                         4830363 3021.9
## + V73
                           1
                                     1
                                         4830363 3021.9
## + V101
                           1
                                         4830363 3021.9
                                     1
## + V61
                           1
                                         4830363 3021.9
                                     1
## + V71
                           1
                                     0
                                         4830364 3021.9
## + V90
                           1
                                     0
                                         4830364 3021.9
## + V75
                           1
                                     0
                                         4830364 3021.9
## + V77
                           1
                                     0
                                         4830364 3021.9
## - V1
                           1
                                 66721
                                         4897085 3022.0
## - V6
                           1
                                114717
                                         4945081 3024.9
## - V2
                           1
                                138093
                                         4968457 3026.3
## - V5
                           1
                                149744
                                         4980108 3027.0
## - V3
                           1
                                268633
                                         5098998 3034.0
## - `COMPLETION QUARTER`
                           1
                                711566
                                         5541930 3058.7
## - `COMPLETION YEAR`
                           1
                                752566
                                         5582930 3060.9
## - V8
                           1 100842380 105672744 3934.3
##
## Step: AIC=3017.92
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
      V1 + V2 + V3 + V4 + V5 + V6 + V8 + V9 + V10 + V11 + V12 +
##
```

```
##
       V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V22 + V23 +
       V25 + V26 + V27 + V28 + V29 + V30 + V32 + V34 + V35 + V36 +
##
       V37 + V38 + V39 + V40 + V41 + V42 + V43 + V44 + V45 + V46 +
##
       V47 + V48 + V49 + V50 + V51 + V52 + V53 + V54 + V55 + V56 +
##
       V57 + V58 + V59 + V60 + V62 + V63 + V64 + V65 + V66 + V67 +
##
##
       V68 + V69 + V70
##
                           Df Sum of Sq
##
                                                RSS
                                                       AIC
## - V46
                                     198
                            1
                                           4830613 3015.9
## - V41
                            1
                                     365
                                           4830780 3015.9
## - V36
                            1
                                     585
                                            4831000 3016.0
## - V11
                                           4831057 3016.0
                            1
                                     642
## - V60
                            1
                                     668
                                            4831083 3016.0
## - V43
                            1
                                     668
                                            4831083 3016.0
## - V67
                            1
                                           4831103 3016.0
                                     688
## - V14
                            1
                                     806
                                            4831221 3016.0
## - V44
                            1
                                    1007
                                            4831422 3016.0
## - V25
                            1
                                    1049
                                            4831464 3016.0
## - V30
                             1
                                    1379
                                            4831793 3016.0
## - V54
                            1
                                    1417
                                            4831832 3016.0
## - V27
                            1
                                    1511
                                            4831926 3016.0
## - V29
                            1
                                    1821
                                            4832236 3016.0
## - V49
                             1
                                           4832244 3016.0
                                    1829
## - V18
                            1
                                    2163
                                            4832578 3016.1
## - V35
                             1
                                    2176
                                            4832591 3016.1
## - V28
                            1
                                    2259
                                           4832674 3016.1
## - V39
                             1
                                    2269
                                            4832684 3016.1
## - V9
                            1
                                    3265
                                           4833680 3016.1
## - V52
                            1
                                           4833985 3016.1
                                    3570
## - V50
                            1
                                           4834751 3016.2
                                    4336
## - V62
                            1
                                    4766
                                           4835181 3016.2
## - V10
                            1
                                    5095
                                           4835510 3016.2
## - V56
                            1
                                           4835579 3016.2
                                    5164
## - V68
                            1
                                    5612
                                            4836027 3016.3
## - V55
                            1
                                    6153
                                           4836568 3016.3
## - V57
                            1
                                    6224
                                            4836639 3016.3
## - V34
                            1
                                    6432
                                           4836847 3016.3
## - V15
                            1
                                    6918
                                           4837333 3016.3
## - V16
                            1
                                    9543
                                            4839958 3016.5
## - V58
                             1
                                    9712
                                           4840127 3016.5
## - V45
                            1
                                   10049
                                            4840464 3016.5
## - V42
                             1
                                   10302
                                            4840717 3016.6
## - V69
                            1
                                   11051
                                            4841466 3016.6
## - V38
                             1
                                   11169
                                            4841584 3016.6
## - V4
                            1
                                   12030
                                            4842445 3016.7
## - V19
                             1
                                   12297
                                            4842712 3016.7
## - V53
                             1
                                   13172
                                            4843587 3016.7
## - V47
                             1
                                            4843791 3016.7
                                   13376
## - V40
                            1
                                   13647
                                            4844062 3016.8
## - V17
                             1
                                   13676
                                            4844090 3016.8
## - V20
                            1
                                   13680
                                           4844095 3016.8
## - V12
                             1
                                   14251
                                            4844666 3016.8
## - `START YEAR`
                            1
                                   14849
                                           4845264 3016.8
## - V64
                             1
                                   15420
                                           4845835 3016.9
## - V26
                             1
                                   16139
                                            4846553 3016.9
## - `START QUARTER`
                             1
                                   16298
                                           4846713 3016.9
```

## - V59	1	18359	4848774	3017.0
## - V66	1	18927	4849342	3017.1
## - V65	1	19558	4849973	3017.1
## - V51	1	21036	4851451	3017.2
## - V13	1	22686	4853101	3017.3
## - V63	1	24222	4854637	3017.4
## - V48	1	25544	4855959	3017.5
## - V22	1	25673	4856088	3017.5
## <none></none>			4830415	3017.9
## - V32	1	35203	4865618	3018.1
## - V70	1	41759	4872174	3018.5
## - V37	1	57528	4887943	3019.4
## + V87	1	75	4830340	3019.9
## + V103	1	68	4830347	3019.9
## + V84	1	68	4830347	3019.9
## + V93	1	52	4830363	3019.9
## + V21	1	51	4830364	3019.9
## + V79	1	48	4830367	3019.9
## + V98	1	42	4830373	3019.9
## + V71	1	37	4830378	3019.9
## + V72	1	36	4830379	3019.9
## + V96	1	34	4830381	3019.9
## + V78	1	31	4830384	3019.9
## + V85	1	30	4830385	3019.9
## + V81	1	28	4830387	3019.9
## + V99	1	26	4830389	3019.9
## + V31	1	26	4830389	
## + V90	1	25	4830390	3019.9
## + V101	1	25	4830390	
## + V82	1	22	4830393	
## + V75	1	22	4830393	
## + V97	1	22	4830393	
## + V88	1	20	4830395	
## + V86	1	19	4830396	
## + V94	1	15	4830400	
## + V80	1	15	4830400	
## + V73	1	12	4830403	
## + V83	1	12	4830403	
## + V92	1	8	4830407	
## + V91	1	8	4830407	
## + V77	1	5	4830410	
## + V76	1	5	4830410	
## + V100	1	4	4830411	
## + V95	1	4	4830411	
## + V61	1	3	4830411	
## + V102	1	3	4830412	
## + V74	1	1	4830414	
## + V24	1	0	4830415	
## + V89	1	0	4830415	
## + V33	1	0	4830415	
## - V23	1	65884	4896299	
## - V1	1	68320	4898735	
## - V6	1	115734	4946148	
## - V2	1	138883	4969298	
## - V5	1	152873	4983288	
## - V3	1	269317	5099732	3032.0

```
## - `COMPLETION QUARTER` 1 711517
                                          5541932 3056.7
## - `COMPLETION YEAR`
                           1
                                 752826
                                          5583241 3058.9
## - V8
                            1 100951977 105782392 3932.6
##
## Step: AIC=3015.94
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
##
       V1 + V2 + V3 + V4 + V5 + V6 + V8 + V9 + V10 + V11 + V12 +
##
       V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V22 + V23 +
       V25 + V26 + V27 + V28 + V29 + V30 + V32 + V34 + V35 + V36 +
##
       V37 + V38 + V39 + V40 + V41 + V42 + V43 + V44 + V45 + V47 +
##
##
       V48 + V49 + V50 + V51 + V52 + V53 + V54 + V55 + V56 + V57 +
       V58 + V59 + V60 + V62 + V63 + V64 + V65 + V66 + V67 + V68 +
##
##
       V69 + V70
##
##
                           Df Sum of Sq
                                               RSS
                                                      AIC
## - V60
                            1
                                    536
                                          4831149 3014.0
## - V67
                            1
                                    615
                                          4831228 3014.0
## - V14
                            1
                                    665
                                          4831277 3014.0
## - V11
                            1
                                   1142
                                          4831755 3014.0
## - V27
                            1
                                   1383
                                          4831996 3014.0
## - V36
                            1
                                   1446
                                          4832059 3014.0
## - V41
                            1
                                   1454
                                          4832067 3014.0
## - V44
                            1
                                   1517
                                          4832129 3014.0
## - V54
                            1
                                   1897
                                          4832510 3014.1
## - V43
                                          4832519 3014.1
                            1
                                   1906
## - V28
                            1
                                   2383
                                          4832996 3014.1
## - V29
                            1
                                   2456
                                          4833069 3014.1
## - V39
                            1
                                   2515
                                          4833128 3014.1
## - V18
                                   2925
                            1
                                          4833537 3014.1
## - V25
                            1
                                   3362
                                          4833975 3014.1
## - V50
                            1
                                   4356
                                          4834969 3014.2
## - V30
                            1
                                   4770
                                          4835383 3014.2
## - V56
                            1
                                   4968
                                          4835581 3014.2
## - V9
                                   5438
                            1
                                          4836051 3014.3
## - V35
                            1
                                   5940
                                          4836553 3014.3
## - V10
                            1
                                   6135
                                          4836747 3014.3
## - V49
                            1
                                   6257
                                          4836870 3014.3
## - V45
                            1
                                   9915
                                          4840528 3014.5
## - V52
                            1
                                  10163
                                          4840776 3014.6
## - V16
                            1
                                  10323
                                          4840936 3014.6
## - V55
                            1
                                  11218
                                          4841830 3014.6
## - V62
                            1
                                  11227
                                          4841840 3014.6
## - V69
                            1
                                  11541
                                          4842154 3014.6
## - V4
                            1
                                  11897
                                          4842510 3014.7
## - V15
                            1
                                  12903
                                          4843516 3014.7
## - V57
                            1
                                  13429
                                          4844042 3014.8
## - V68
                            1
                                  13503
                                          4844116 3014.8
## - V47
                            1
                                  14164
                                          4844776 3014.8
## - V42
                            1
                                  14781
                                          4845394 3014.8
## - V19
                            1
                                  14930
                                          4845543 3014.9
## - V58
                            1
                                  15512
                                          4846125 3014.9
## - `START QUARTER`
                            1
                                          4846794 3014.9
                                  16181
## - V64
                            1
                                  16717
                                          4847330 3015.0
## - V26
                            1
                                  16792
                                          4847405 3015.0
                                          4848899 3015.1
## - V17
                            1
                                  18286
## - V38
                            1
                                          4849695 3015.1
                                  19083
```

## - V12	1	19165	4849778 3015.1
## - V65	1	20018	4850631 3015.2
## - V20	1	21267	4851880 3015.2
## - `START YEAR`	1	21366	4851979 3015.2
## - V53	1	21829	4852442 3015.3
## - V63	1	24120	4854733 3015.4
## - V40	1	24942	4855555 3015.5
## - V34	1	25258	4855871 3015.5
## - V48	1	26063	4856675 3015.5
## - V66	1	26304	4856917 3015.5
## - V59	1	27546	4858159 3015.6
## - V22	1	27654	
## <none></none>	_		4830613 3015.9
## - V51	1	35149	4865762 3016.1
## - V13	1	40456	
## - V70	1	41589	4872202 3016.5
## - V32	1	42183	
## - V37	1	57751	
## + V84	1	242	4830371 3017.9
## + V96	1	208	4830405 3017.9
## + V46	1	198	
## + V103	1	168	4830445 3017.9
## + V79	1	156	4830457 3017.9
## + V73	1	155	4830458 3017.9
## + V74	1	151	4830462 3017.9
## + V94	1	145	4830468 3017.9
## + V87	1	143	4830470 3017.9
## + V90	1	142	4830471 3017.9
## + V78	1	132	4830481 3017.9
## + V61	1	127	4830486 3017.9
## + V99	1	123	4830490 3017.9
## + V80	1	117	4830496 3017.9
## + V93	1	99	4830513 3017.9
## + V101	1	92	4830521 3017.9
## + V82	1	89	4830524 3017.9
## + V31	1	56	4830557 3017.9
## + V86	1	53	
## + V88	1	52	4830561 3017.9
## + V21	1	47	
## + V24	1	32	
## + V89	1	29	4830584 3017.9
## + V98	1	21	4830592 3017.9
## + V92	1	21	
## + V77	1	18	4830594 3017.9
## + V33	1	13	
## + V75	1	12	
## + V72	1	10	4830603 3017.9
## + V81	1	7	4830606 3017.9
## + V102	1	2	4830611 3017.9
## + V83	1	2	4830611 3017.9
## + V76	1	1	4830612 3017.9
## + V100	1	1	4830612 3017.9
## + V85	1	1	4830612 3017.9
## + V91	1	1	4830612 3017.9
## + V97	1	0	4830613 3017.9
## + V71	1	0	4830613 3017.9

```
## + V95
                           1
                                      0
                                          4830613 3017.9
## - V23
                           1
                                  66294
                                          4896906 3018.0
## - V1
                           1
                                  68396
                                          4899009 3018.1
## - V6
                           1
                                 115723
                                          4946336 3021.0
## - V2
                                 138927
                                          4969540 3022.4
                           1
## - V5
                           1
                                 152678
                                          4983291 3023.2
## - V3
                           1
                                 269238
                                          5099851 3030.0
## - `COMPLETION QUARTER` 1 712860
                                          5543473 3054.8
## - `COMPLETION YEAR`
                                 764115
                                          5594728 3057.6
                           1
## - V8
                           1 101120928 105951541 3931.1
##
## Step: AIC=3013.97
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
       V1 + V2 + V3 + V4 + V5 + V6 + V8 + V9 + V10 + V11 + V12 +
       V13 + V14 + V15 + V16 + V17 + V18 + V19 + V20 + V22 + V23 +
##
##
       V25 + V26 + V27 + V28 + V29 + V30 + V32 + V34 + V35 + V36 +
##
       V37 + V38 + V39 + V40 + V41 + V42 + V43 + V44 + V45 + V47 +
       V48 + V49 + V50 + V51 + V52 + V53 + V54 + V55 + V56 + V57 +
##
       V58 + V59 + V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 +
##
##
      V70
##
                          Df Sum of Sq
##
                                              RSS
                                                     AIC
## - V14
                           1
                                    754
                                          4831903 3012.0
## - V67
                           1
                                   1006
                                          4832155 3012.0
## - V36
                                   1549
                           1
                                          4832698 3012.1
## - V27
                           1
                                   1592
                                          4832740 3012.1
## - V54
                           1
                                   1748
                                          4832896 3012.1
## - V43
                           1
                                          4833026 3012.1
                                   1877
## - V29
                                   1978
                           1
                                          4833127 3012.1
## - V44
                           1
                                   2185
                                          4833334 3012.1
## - V28
                           1
                                   2309
                                          4833458 3012.1
## - V39
                           1
                                   2403
                                          4833552 3012.1
## - V11
                           1
                                   2513
                                          4833662 3012.1
## - V41
                           1
                                   2558
                                          4833707 3012.1
## - V18
                           1
                                   3082
                                          4834231 3012.2
## - V25
                           1
                                   4112
                                          4835261 3012.2
## - V50
                                   4454
                           1
                                          4835603 3012.2
## - V30
                           1
                                   5192
                                          4836341 3012.3
## - V9
                           1
                                   5334
                                          4836482 3012.3
## - V10
                           1
                                   5639
                                          4836787 3012.3
## - V56
                           1
                                   5853
                                          4837002 3012.3
## - V35
                           1
                                   5875
                                          4837023 3012.3
## - V49
                           1
                                   8285
                                          4839434 3012.5
## - V45
                           1
                                  10122
                                          4841271 3012.6
## - V55
                           1
                                  10897
                                          4842046 3012.6
## - V69
                           1
                                  11596
                                          4842745 3012.7
## - V62
                           1
                                  11601
                                          4842749 3012.7
## - V52
                           1
                                  11676
                                          4842824 3012.7
## - V4
                           1
                                  12141
                                          4843289 3012.7
## - V16
                           1
                                  12181
                                          4843329 3012.7
## - V47
                                  14959
                           1
                                          4846107 3012.9
## - V19
                           1
                                          4846492 3012.9
                                  15344
## - V57
                           1
                                  15481
                                          4846630 3012.9
## - V26
                           1
                                  17232
                                          4848381 3013.0
## - `START QUARTER`
                           1
                                  17235
                                          4848384 3013.0
## - V64
                           1
                                  17435
                                          4848584 3013.0
```

## - V15	1	17706	4848855 3013.1
## - V58	1	17763	4848912 3013.1
## - V68	1	17901	4849050 3013.1
## - V42	1	18732	4849881 3013.1
## - V17	1	19427	4850575 3013.2
## - V20	1	20908	4852056 3013.3
## - V38	1	21227	4852376 3013.3
## - V65	1	22372	4853520 3013.3
## - V12	1	23990	4855139 3013.4
## - V63	1	24459	4855608 3013.5
## - V48	1	25764	4856912 3013.5
## - V53	1	26976	
## - `START YEAR`	1	27330	4858479 3013.6
## - V66	1	28154	4859302 3013.7
	1		
		29201	
## - V59	1	31347	4862496 3013.9
## - V40	1	31451	4862600 3013.9
## <none></none>			4831149 3014.0
## - V34	1	33082	4864231 3014.0
## - V51	1	40755	4871903 3014.5
## - V13	1	45327	4876476 3014.7
## - V32	1	46484	4877633 3014.8
## - V70	1	48634	4879783 3014.9
## - V37	1	63915	4895064 3015.9
## + V101	1	620	4830529 3015.9
## + V82	1	571	4830578 3015.9
## + V60	1	536	4830613 3015.9
## + V93	1	506	4830643 3015.9
## + V73	1	493	4830655 3015.9
## + V103	1	447	4830702 3015.9
## + V96	1	443	4830705 3015.9
## + V83	1	393	4830755 3015.9
## + V100	1	332	4830817 3015.9
## + V74	1	312	4830836 3015.9
## + V85	1	235	4830914 3016.0
## + V71	1	227	4830922 3016.0
## + V92	1	196	4830953 3016.0
## + V78	1	194	4830954 3016.0
## + V98	1	193	4830956 3016.0
## + V21	1	189	
## + V81	1	181	4830968 3016.0
## + V88	1	181	4830968 3016.0
## + V102	1	179 163	4830970 3016.0
## + V91	1	163	4830986 3016.0
## + V90	1	156	4830993 3016.0
## + V24	1	130	4831019 3016.0
## + V77	1	102	4831047 3016.0
## + V87	1	84	4831065 3016.0
## + V89	1	80	4831069 3016.0
## + V94	1	78 	4831071 3016.0
## + V76	1	77	4831071 3016.0
## + V72	1	68	4831080 3016.0
## + V86	1	67	4831082 3016.0
## + V31	1	66	4831083 3016.0
## + V46	1	66	4831083 3016.0
## + V80	1	52	4831096 3016.0

```
## + V84
                                     43
                           1
                                          4831106 3016.0
## + V79
                            1
                                     40
                                          4831109 3016.0
## + V75
                            1
                                     24
                                          4831125 3016.0
## + V99
                            1
                                          4831128 3016.0
                                     20
## + V33
                                          4831138 3016.0
                            1
                                     11
## + V97
                           1
                                      9
                                          4831139 3016.0
## + V61
                            1
                                      8
                                          4831140 3016.0
## + V95
                           1
                                      0
                                          4831148 3016.0
## - V1
                                  67988
                                          4899136 3016.1
                           1
## - V23
                           1
                                  74346
                                          4905495 3016.5
## - V6
                           1
                                 116098
                                          4947247 3019.0
## - V2
                           1
                                 138468
                                          4969616 3020.4
## - V5
                            1
                                 153812
                                          4984961 3021.3
## - V3
                            1
                                 268772
                                          5099920 3028.0
## - `COMPLETION QUARTER`
                           1
                                 715250
                                          5546399 3053.0
## - `COMPLETION YEAR`
                           1
                                 764532
                                          5595681 3055.6
## - V8
                            1 101413912 106245061 3929.9
##
## Step: AIC=3012.01
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
       V1 + V2 + V3 + V4 + V5 + V6 + V8 + V9 + V10 + V11 + V12 +
##
       V13 + V15 + V16 + V17 + V18 + V19 + V20 + V22 + V23 + V25 +
##
       V26 + V27 + V28 + V29 + V30 + V32 + V34 + V35 + V36 + V37 +
##
##
       V38 + V39 + V40 + V41 + V42 + V43 + V44 + V45 + V47 + V48 +
       V49 + V50 + V51 + V52 + V53 + V54 + V55 + V56 + V57 + V58 +
##
       V59 + V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70
##
##
##
                           Df Sum of Sq
                                              RSS
                                                     AIC
## - V36
                            1
                                          4832739 3010.1
                                    836
## - V27
                           1
                                    962
                                          4832865 3010.1
## - V43
                           1
                                   1151
                                          4833054 3010.1
## - V44
                           1
                                   1537
                                          4833440 3010.1
## - V29
                           1
                                          4833727 3010.1
                                   1824
## - V11
                                          4833740 3010.1
                           1
                                   1838
## - V54
                           1
                                   2214
                                          4834117 3010.2
## - V67
                            1
                                   2458
                                          4834361 3010.2
## - V18
                           1
                                   2650
                                          4834553 3010.2
## - V39
                            1
                                   2684
                                          4834587 3010.2
## - V28
                            1
                                   4005
                                          4835908 3010.3
## - V9
                            1
                                          4836504 3010.3
                                   4601
## - V30
                            1
                                   4926
                                          4836829 3010.3
## - V56
                            1
                                   5392
                                          4837295 3010.3
## - V10
                            1
                                   5962
                                          4837865 3010.4
## - V25
                            1
                                   6742
                                          4838645 3010.4
## - V41
                            1
                                   7114
                                          4839017 3010.5
## - V35
                            1
                                   9041
                                          4840944 3010.6
## - V62
                            1
                                  10852
                                          4842755 3010.7
## - V49
                            1
                                  10928
                                          4842830 3010.7
## - V4
                            1
                                  11614
                                          4843517 3010.7
## - V16
                            1
                                  11629
                                          4843532 3010.7
## - V52
                            1
                                  11666
                                          4843569 3010.7
## - V57
                            1
                                  16562
                                          4848465 3011.0
## - V15
                            1
                                  17579
                                          4849482 3011.1
## - V19
                            1
                                  17583
                                          4849486 3011.1
## - V55
                            1
                                  18485
                                          4850388 3011.1
## - V58
                            1
                                  18713
                                          4850615 3011.2
```

## - V50	1	19591	4851494 3011.2
## - V69	1	19718	4851621 3011.2
## - V68	1	22063	4853966 3011.4
## - V63	1	23713	4855616 3011.5
## - V38	1	23809	4855712 3011.5
## - V45	1	24464	4856367 3011.5
## - V17	1	27210	4859113 3011.7
## - V66	1	27406	4859309 3011.7
## - V22	1	28782	
## - V12	1	28941	
## - V48	1	29855	4861758 3011.8
## - V53	1	29891	
## - V40	1	30727	
## - V47	1	32045	4863948 3012.0
## - V42	1	32246	
## - V59	1	32466	
## <none></none>			4831903 3012.0
## - V34	1	32801	4864704 3012.0
## - V26	1	33096	4864999 3012.0
## - V20	1	33304	4865207 3012.1
## - `START YEAR`	1	35993	4867896 3012.2
## - V64	1	37319	4869222 3012.3
## - `START QUARTER`	1	37559	4869462 3012.3
## - V51	1	42738	4874641 3012.6
## - V32	1	46568	4878471 3012.9
## - V13	1	46760	4878663 3012.9
## - V70	1	48537	4880439 3013.0
## - V65	1	49184	
## - V37	1	64186	4896089 3013.9
## + V74	1	1022	
## + V103	1	957	4830946 3014.0
## + V100	1	928	4830975 3014.0
l			
## + V14	1	754	
## + V71	1	701	
## + V101	1	678	
## + V92	1	633	4831270 3014.0
## + V60	1	625	
## + V97	1	434	
## + V83	1	384	4831519 3014.0
## + V82	1	375	4831528 3014.0
## + V77	1	348	4831555 3014.0
## + V73	1	307	4831596 3014.0
## + V98	1	279	4831624 3014.0
## + V93	1	277	4831626 3014.0
## + V86	1	254	4831649 3014.0
## + V102	1	252	4831651 3014.0
## + V85	1	236	4831667 3014.0
## + V78	1	224	4831679 3014.0
## + V99	1	220	4831682 3014.0
## + V72	1	218	
## + V31	1	209	
## + V91	1	191	4831712 3014.0
	1		
## + V46		188	
## + V24	1	129	4831774 3014.0
## + V21	1	121	4831782 3014.0
## + V61	1	103	4831800 3014.0

```
## + V90
                            1
                                     92
                                          4831811 3014.0
## + V79
                            1
                                     83
                                          4831820 3014.0
## + V81
                            1
                                     74
                                          4831829 3014.0
## + V76
                            1
                                          4831835 3014.0
                                     67
## + V88
                            1
                                     59
                                          4831843 3014.0
## + V94
                            1
                                     53
                                          4831850 3014.0
## + V87
                            1
                                     19
                                          4831884 3014.0
## + V75
                            1
                                     13
                                          4831890 3014.0
## + V80
                                      7
                                          4831896 3014.0
                            1
## + V95
                            1
                                      6
                                          4831897 3014.0
## + V96
                            1
                                      0
                                          4831902 3014.0
## + V89
                                          4831902 3014.0
                            1
                                      0
## + V33
                            1
                                      0
                                          4831903 3014.0
## + V84
                            1
                                      0
                                          4831903 3014.0
## - V1
                            1
                                          4899143 3014.1
                                  67241
## - V23
                            1
                                  74280
                                          4906183 3014.5
## - V6
                            1
                                 116227
                                          4948130 3017.1
## - V2
                            1
                                 143421
                                          4975324 3018.7
## - V5
                            1
                                 154752
                                          4986654 3019.4
## - V3
                            1
                                 271883
                                          5103786 3026.3
## - `COMPLETION QUARTER`
                            1
                                 721956
                                          5553859 3051.4
## - `COMPLETION YEAR`
                           1
                                 773711
                                          5605613 3054.1
## - V8
                            1 101719885 106551788 3928.8
##
## Step: AIC=3010.07
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
       V1 + V2 + V3 + V4 + V5 + V6 + V8 + V9 + V10 + V11 + V12 +
##
       V13 + V15 + V16 + V17 + V18 + V19 + V20 + V22 + V23 + V25 +
##
       V26 + V27 + V28 + V29 + V30 + V32 + V34 + V35 + V37 + V38 +
##
       V39 + V40 + V41 + V42 + V43 + V44 + V45 + V47 + V48 + V49 +
##
       V50 + V51 + V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 +
##
       V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70
##
##
                           Df Sum of Sq
##
                                              RSS
                                                      ATC
## - V43
                            1
                                    439
                                          4833178 3008.1
## - V44
                            1
                                   1248
                                          4833987 3008.1
## - V11
                                          4834407 3008.2
                            1
                                   1668
## - V27
                            1
                                   1771
                                          4834510 3008.2
## - V18
                            1
                                   1817
                                          4834556 3008.2
## - V39
                            1
                                   2452
                                          4835192 3008.2
## - V29
                            1
                                   2841
                                          4835580 3008.2
## - V54
                            1
                                   3044
                                          4835783 3008.3
## - V28
                            1
                                   3704
                                          4836443 3008.3
## - V9
                            1
                                   3843
                                          4836582 3008.3
## - V30
                            1
                                   4225
                                          4836964 3008.3
## - V56
                            1
                                   4844
                                          4837584 3008.4
## - V67
                            1
                                   5212
                                          4837951 3008.4
## - V25
                            1
                                   6299
                                          4839038 3008.5
## - V41
                            1
                                   7018
                                          4839757 3008.5
## - V10
                            1
                                   7848
                                          4840588 3008.5
## - V35
                            1
                                   8233
                                          4840972 3008.6
## - V49
                            1
                                  10093
                                          4842832 3008.7
## - V62
                            1
                                  11066
                                          4843805 3008.7
## - V52
                            1
                                  11302
                                          4844041 3008.8
## - V4
                            1
                                  11318
                                          4844057 3008.8
## - V16
                            1
                                  12295
                                          4845035 3008.8
```

## - V57	1	16331	4849070 3009.1
## - V19	1	16887	4849627 3009.1
## - V15	1	17063	4849802 3009.1
## - V55	1	17859	4850598 3009.2
## - V58	1	18414	4851153 3009.2
## - V69	1	19487	4852226 3009.3
## - V68	1	21277	4854016 3009.4
## - V50	1	22391	4855131 3009.4
## - V38	1	23243	4855982 3009.5
## - V63	1	23362	4856101 3009.5
## - V17	1	29222	4861961 3009.9
## - V12	1	31447	4864186 3010.0
## - V53	1	31536	4864275 3010.0
## - V42	1	31636	4864375 3010.0
## - V47	1	32564	4865303 3010.1
## <none></none>	_	3230.	4832739 3010.1
## - V22	1	33715	4866454 3010.1
## - V20	1	33917	
## - V59	1	35796	4868535 3010.3
## - V34	1	36549	4869288 3010.3
## - V66	1	37153	
## - `START YEAR`	1	37434	
## - V40	1	40239	
## - V45	1	41508	
## - V48	1	41805	4874544 3010.6
## - V51	1	41942	4874681 3010.6
## - V65	1	48448	
## - V13	1	49686	
## - V26	1	52165	4884904 3011.3
## - V64	1	56515	4889254 3011.5
## - `START QUARTER`	1	59199	1022230 302217
## - V70	1	60085	4892824 3011.7
## + V100	1	1541	4831198 3012.0
## + V92	1	1463	4831276 3012.0
## + V103	1	1261	4831478 3012.0
## + V82	1	1130	4831609 3012.0
## + V71	1	1038	4831702 3012.0
## + V101	1	1031	4831708 3012.0
## + V83	1	931	4831808 3012.0
## + V24	1	927	4831812 3012.0
## + V36	1	836	4831903 3012.0
## + V93	1	684	4832055 3012.0
## + V60	1	653	4832086 3012.0
## + V98	1	625	4832114 3012.0
## + V76	1	620	4832119 3012.0
## + V86	1	583	4832156 3012.0
## + V99	1	468	4832271 3012.0
## + V81	1	452	4832287 3012.0
## + V88	1	408	4832331 3012.0
## + V80	1	338	4832401 3012.0
## + V95	1	276	4832463 3012.0
## + V31	1	275	4832464 3012.0
## + V85	1	231	4832508 3012.1
## + V73	1	217	4832522 3012.1
## + V77	1	185	4832554 3012.1
## + V72	1	168	4832571 3012.1
"" V/2	_	100	40727/I JUIZ.I

```
## + V74
                            1
                                    159
                                          4832581 3012.1
## + V94
                            1
                                    135
                                          4832604 3012.1
## + V79
                            1
                                    101
                                          4832638 3012.1
## + V97
                            1
                                     92
                                          4832647 3012.1
## + V89
                            1
                                     49
                                          4832691 3012.1
## + V84
                            1
                                     47
                                          4832692 3012.1
## + V102
                            1
                                     45
                                          4832694 3012.1
## + V14
                            1
                                     41
                                          4832698 3012.1
## + V33
                                          4832706 3012.1
                            1
                                     33
## + V87
                            1
                                     30
                                          4832709 3012.1
## + V46
                            1
                                     10
                                          4832729 3012.1
## + V90
                            1
                                      6
                                          4832733 3012.1
## + V78
                            1
                                      6
                                          4832733 3012.1
## + V75
                            1
                                      4
                                          4832736 3012.1
## + V96
                            1
                                      3
                                          4832736 3012.1
## + V91
                            1
                                      2
                                          4832737 3012.1
## + V61
                            1
                                      2
                                          4832737 3012.1
## + V21
                            1
                                          4832738 3012.1
                                      1
## - V1
                            1
                                  67362
                                          4900101 3012.2
## - V37
                            1
                                  78712
                                          4911452 3012.9
## - V23
                            1
                                  82871
                                          4915610 3013.1
## - V32
                            1
                                  91371
                                          4924110 3013.6
## - V6
                            1
                                          4949780 3015.2
                                 117041
## - V2
                            1
                                 145422
                                          4978161 3016.9
## - V5
                                          4989019 3017.5
                            1
                                 156280
## - V3
                            1
                                 272280
                                          5105019 3024.3
## - `COMPLETION QUARTER`
                            1
                                 723759
                                          5556498 3049.5
## - `COMPLETION YEAR`
                            1
                                          5605856 3052.1
                                 773117
## - V8
                            1 101969664 106802403 3927.4
##
## Step: AIC=3008.09
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
##
       V1 + V2 + V3 + V4 + V5 + V6 + V8 + V9 + V10 + V11 + V12 +
       V13 + V15 + V16 + V17 + V18 + V19 + V20 + V22 + V23 + V25 +
##
##
       V26 + V27 + V28 + V29 + V30 + V32 + V34 + V35 + V37 + V38 +
       V39 + V40 + V41 + V42 + V44 + V45 + V47 + V48 + V49 + V50 +
##
       V51 + V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V62 +
##
##
       V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70
##
##
                           Df Sum of Sq
                                               RSS
## - V27
                            1
                                   1333
                                          4834511 3006.2
## - V18
                            1
                                   1378
                                          4834556 3006.2
## - V11
                            1
                                   1395
                                          4834573 3006.2
## - V44
                            1
                                   1521
                                          4834699 3006.2
## - V39
                            1
                                   3102
                                          4836280 3006.3
## - V28
                            1
                                   4488
                                          4837666 3006.4
## - V9
                            1
                                   5109
                                          4838287 3006.4
## - V56
                            1
                                   5523
                                          4838701 3006.4
## - V30
                            1
                                   5979
                                          4839157 3006.5
## - V25
                            1
                                   6234
                                          4839412 3006.5
## - V54
                                   6397
                                          4839575 3006.5
                            1
## - V41
                            1
                                   7520
                                          4840698 3006.6
## - V35
                            1
                                   8144
                                          4841322 3006.6
## - V29
                            1
                                   8955
                                          4842133 3006.6
                                  10786
## - V10
                            1
                                          4843965 3006.8
## - V67
                            1
                                  11082
                                          4844260 3006.8
```

## - V4	1	11166	4844344 3006.8
## - V49	1	11628	4844806 3006.8
## - V16	1	12159	4845337 3006.8
## - V52	1	13982	4847160 3007.0
## - V19	1	16619	4849797 3007.1
## - V55	1	17856	4851034 3007.2
## - V57	1	18806	4851984 3007.2
## - V69	1	19062	4852240 3007.3
## - V58	1	20205	4853384 3007.3
## - V38	1	23749	4856927 3007.5
## - V50	1	25532	4858710 3007.7
## - V62	1	26238	4859416 3007.7
## - V15	1	26922	4860100 3007.7
## - V68	1	27643	4860821 3007.8
## - V63	1	28394	4861572 3007.8
## - V17	1	29152	4862330 3007.9
## - V12	1	31555	4864733 3008.0
## <none></none>	_	31333	4833178 3008.1
## - V47	1	33688	4866867 3008.2
## - V22	1	33941	4867119 3008.2
## - V20	1	34362	4867540 3008.2
## - V42	1	37873	4871051 3008.4
## - `START YEAR`	1	37986	4871164 3008.4
## - V53	1	41868	4875046 3008.7
## - V59	1	42067	4875245 3008.7
## - V45	1	42963	4876141 3008.7
## - V40	1	45702	4878880 3008.9
## - V66	1	47258	4880436 3009.0
## - V65	1	48130	4881308 3009.0
## - V51	1	51825	4885003 3009.3
## - V26	1	53104	4886282 3009.3
## - V34	1	53608	4886786 3009.4
## - V48	1	54008	4887186 3009.4
## - V70	1	59730	4892908 3009.7
## - V64	1	60070	4893249 3009.8
## - V13	1	62015	4895193 3009.9
## - `START QUARTER`	1	62346	4895524 3009.9
## + V100	1	1839	4831339 3010.0
## + V92	1	1736	4831442 3010.0
## + V103	1	1689	4831489 3010.0
## + V82	1	1501	
## + V101	1	1432	4831746 3010.0
## + V83	1	1370	
## + V24	1	1334	
## + V93	1	1120	4832058 3010.0
## + V71	1	1043	
## + V76	1	565 564	
## + V73	1	564	4832615 3010.1
## + V60	1	557	
## + V72	1	483	
## + V98	1	477	4832701 3010.1
## + V99	1	459	
## + V43	1	439	
## + V81	1	404	4832774 3010.1
## + V80	1	394	
## + V74	1	387	4832791 3010.1

```
## + V95
                            1
                                    296
                                          4832882 3010.1
## + V85
                            1
                                    255
                                          4832923 3010.1
                                          4832928 3010.1
## + V31
                            1
                                    250
## + V96
                            1
                                    229
                                          4832949 3010.1
## + V88
                            1
                                    200
                                          4832978 3010.1
## + V75
                            1
                                    187
                                          4832991 3010.1
## + V102
                            1
                                    181
                                          4832997 3010.1
## + V84
                            1
                                    173
                                          4833005 3010.1
## + V79
                            1
                                    160
                                          4833018 3010.1
## + V94
                            1
                                    150
                                          4833028 3010.1
## + V36
                            1
                                    125
                                          4833054 3010.1
## + V46
                                          4833061 3010.1
                            1
                                    117
## + V86
                            1
                                    111
                                          4833067 3010.1
## + V90
                            1
                                     94
                                          4833084 3010.1
## + V77
                            1
                                     67
                                          4833111 3010.1
## + V97
                            1
                                     54
                                          4833124 3010.1
## + V21
                            1
                                     48
                                          4833130 3010.1
## + V61
                            1
                                     33
                                          4833145 3010.1
## + V78
                                      7
                            1
                                          4833171 3010.1
## + V89
                            1
                                      4
                                          4833174 3010.1
## + V14
                                      2
                                          4833176 3010.1
                            1
## + V33
                            1
                                      1
                                          4833177 3010.1
## + V87
                            1
                                      1
                                          4833177 3010.1
## + V91
                            1
                                      1
                                          4833177 3010.1
## - V1
                            1
                                          4900142 3010.2
                                  66963
## - V37
                            1
                                  83185
                                          4916363 3011.2
## - V23
                            1
                                  98059
                                          4931237 3012.1
## - V32
                            1
                                 108125
                                          4941303 3012.7
## - V6
                            1
                                          4949931 3013.2
                                 116753
## - V2
                                          4979373 3014.9
                            1
                                 146195
## - V5
                            1
                                 155967
                                          4989145 3015.5
## - V3
                            1
                                 272418
                                          5105596 3022.4
## - `COMPLETION QUARTER`
                                 725236
                                          5558414 3047.6
                           1
## - `COMPLETION YEAR`
                                 774395
                                          5607574 3050.2
                            1
## - V8
                            1 101983018 106816196 3925.5
##
## Step: AIC=3006.17
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
##
       V1 + V2 + V3 + V4 + V5 + V6 + V8 + V9 + V10 + V11 + V12 +
##
       V13 + V15 + V16 + V17 + V18 + V19 + V20 + V22 + V23 + V25 +
       V26 + V28 + V29 + V30 + V32 + V34 + V35 + V37 + V38 + V39 +
##
##
       V40 + V41 + V42 + V44 + V45 + V47 + V48 + V49 + V50 + V51 +
##
       V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V62 + V63 +
       V64 + V65 + V66 + V67 + V68 + V69 + V70
##
##
                           Df Sum of Sq
##
                                               RSS
                                                      AIC
## - V11
                            1
                                    613
                                          4835125 3004.2
## - V44
                            1
                                   1294
                                          4835806 3004.3
## - V18
                            1
                                   4566
                                          4839078 3004.5
## - V28
                            1
                                   4675
                                          4839186 3004.5
## - V56
                            1
                                   5911
                                          4840422 3004.5
## - V30
                            1
                                          4842746 3004.7
                                   8235
## - V39
                            1
                                   8378
                                          4842890 3004.7
## - V25
                                   8582
                            1
                                          4843093 3004.7
## - V54
                            1
                                   9578
                                          4844089 3004.8
## - V67
                            1
                                   9835
                                          4844346 3004.8
```

	## - V41		1	9880	4844391	3004.8
	## - V9		1	10164	4844675	3004.8
	## - V16		1	10827	4845338	3004.8
	## - V4		1	11140	4845652	3004.9
	## - V29		1	12149	4846660	3004.9
	## - V10		1	13311	4847822	3005.0
	## - V49		1	13601	4848112	3005.0
	## - V35		1	14884	4849395	3005.1
	## - V55		1	20603		
	## - V69		1	21834	4856345	
	## - V52		1	21875		
	## - V15		1	25637		
	## - V58		1	29224	4863735	
	## - V58 ## - V57		1	29292		
	## - V12		1	30347		
	## - V12 ## - V68		1	30800	4865311	
			1	30000		
	## <none></none>			22670	4834511	
	## - V19		1	33670		
	## - V62		1	34224	4868735	
	## - V38		1	34902		
	## - V63		1	36409		
	## - V50		1	36557		
	## - `START `	YEAR`	1	37616		3006.5
	## - V42		1	40337	4874848	3006.6
	## - V40		1	44505	4879017	3006.9
	## - V53		1	47102	4881613	3007.1
	## - V65		1	47691	4882202	3007.1
	## - V22		1	48517	4883029	3007.1
	## - V17		1	48520	4883032	3007.1
	## - V20		1	50352	4884864	3007.3
	## - V34		1	52570	4887082	3007.4
	## - V66		1	53408	4887919	3007.4
	## - V47		1	55018	4889529	3007.5
	## - V45		1	58088	4892599	3007.7
	## - V59		1	59215	4893727	3007.8
	## + V82		1	2069	4832442	3008.0
	## + V100		1	1928	4832583	3008.1
	## - V51		1	63690	4898201	3008.1
	## + V93		1	1712	4832800	3008.1
	## + V81		1	1664	4832847	3008.1
	## + V80		1	1514	4832997	3008.1
	## + V27		1	1333	4833178	3008.1
	## + V92		1	1201	4833310	
	## + V76		1	1060	4833451	
	## + V83		1	1023	4833488	
	## + V96		1	923	4833588	
	## + V72		1	905	4833606	
	## + V95		1	904	4833607	
	## + V36		1	871	4833640	
	## + V60		1	855	4833656	
			1		4833717	
	## + V103			794 747		
	## + V102		1	747 716	4833764	
	## + V31		1	716	4833796	
	## + V101		1	662	4833849	
	## + V33		1	620	4833891	
	## + V94		1	615	4833896	3008.1
- 4						

```
## + V88
                                    515
                           1
                                          4833996 3008.1
## + V24
                                          4834075 3008.1
                            1
                                    436
## + V79
                                    405
                            1
                                          4834106 3008.1
## + V85
                            1
                                          4834208 3008.2
                                    304
## + V14
                            1
                                    268
                                          4834244 3008.2
## + V71
                           1
                                    264
                                          4834247 3008.2
## + V74
                            1
                                    201
                                          4834310 3008.2
## + V73
                           1
                                    201
                                          4834310 3008.2
## + V75
                                    180
                                          4834331 3008.2
                            1
## + V86
                           1
                                    137
                                          4834374 3008.2
## + V78
                            1
                                    132
                                          4834379 3008.2
## + V21
                           1
                                    110
                                          4834401 3008.2
## + V89
                           1
                                     96
                                          4834416 3008.2
## + V77
                           1
                                     95
                                          4834416 3008.2
## + V99
                            1
                                     91
                                          4834420 3008.2
## + V91
                            1
                                     90
                                          4834422 3008.2
## + V87
                            1
                                     71
                                          4834440 3008.2
## + V46
                            1
                                     38
                                          4834473 3008.2
## + V98
                            1
                                     13
                                          4834498 3008.2
## + V97
                           1
                                      9
                                          4834502 3008.2
## + V84
                                      3
                            1
                                          4834509 3008.2
## + V43
                            1
                                      1
                                          4834510 3008.2
## + V90
                            1
                                      1
                                          4834511 3008.2
## + V61
                            1
                                      0
                                          4834511 3008.2
## - V1
                                          4901170 3008.2
                            1
                                  66659
## - `START QUARTER`
                            1
                                  69565
                                          4904077 3008.4
## - V48
                            1
                                  74403
                                          4908914 3008.7
## - V26
                            1
                                  74448
                                          4908959 3008.7
## - V70
                            1
                                  74889
                                          4909400 3008.7
## - V13
                                  81742
                            1
                                          4916253 3009.2
## - V64
                            1
                                  85548
                                          4920060 3009.4
## - V37
                           1
                                  87480
                                          4921992 3009.5
## - V6
                           1
                                 119201
                                          4953712 3011.4
## - V32
                                 119942
                                          4954454 3011.5
                           1
## - V23
                           1
                                 125399
                                          4959910 3011.8
## - V2
                            1
                                 144990
                                          4979501 3013.0
## - V5
                           1
                                 156808
                                          4991319 3013.7
## - V3
                           1
                                 271128
                                          5105640 3020.4
## - `COMPLETION QUARTER` 1
                                 723945
                                          5558456 3045.6
## - `COMPLETION YEAR`
                                 776467
                                          5610978 3048.4
                           1
## - V8
                           1 102554722 107389233 3925.1
##
## Step: AIC=3004.21
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
##
       V1 + V2 + V3 + V4 + V5 + V6 + V8 + V9 + V10 + V12 + V13 +
       V15 + V16 + V17 + V18 + V19 + V20 + V22 + V23 + V25 + V26 +
##
       V28 + V29 + V30 + V32 + V34 + V35 + V37 + V38 + V39 + V40 +
##
##
       V41 + V42 + V44 + V45 + V47 + V48 + V49 + V50 + V51 + V52 +
##
       V53 + V54 + V55 + V56 + V57 + V58 + V59 + V62 + V63 + V64 +
       V65 + V66 + V67 + V68 + V69 + V70
##
##
##
                           Df Sum of Sq
                                              RSS
                                                     AIC
## - V44
                           1
                                          4835806 3002.3
                                    681
## - V18
                            1
                                   4341
                                          4839466 3002.5
## - V28
                            1
                                   4689
                                          4839814 3002.5
## - V56
                            1
                                   5827
                                          4840952 3002.6
```

## - V25	1	8539	4843664 3002.7
## - V30	1	8897	4844022 3002.8
## - V39	1	9296	4844421 3002.8
## - V67	1	9433	4844558 3002.8
## - V9	1	9723	4844847 3002.8
## - V54	1	9849	4844974 3002.8
## - V4	1	11515	4846640 3002.9
## - V41	1	11990	4847115 3002.9
## - V16	1	12711	4847836 3003.0
## - V49	1	12988	4848113 3003.0
## - V10	1	13876	4849000 3003.1
## - V35	1	14274	
## - V29	1	15396	4850520 3003.2
## - V69	1	21455	4856580 3003.5
	1		4857583 3003.6
## - V52		22458	
## - V55	1	27944	4863069 3003.9
## - V58	1	28639	4863763 3004.0
## - V57	1	29451	4864575 3004.0
## - V12	1	30095	4865220 3004.1
## <none></none>			4835125 3004.2
## - V62	1	33637	4868762 3004.3
## - V68	1	35538	4870663 3004.4
## - V19	1	36554	4871679 3004.4
## - V50	1	37031	4872155 3004.5
## - V38	1	38558	4873682 3004.6
## - V63	1	43727	4878852 3004.9
## - V22	1	47918	4883043 3005.1
## - V17	1	48485	4883610 3005.2
V20		40057	4004000 2005 2
## - V20	1	49857	4884982 3005.3
## - V42	1 1	49857 52856	4887981 3005.4
## - V42	1	52856	4887981 3005.4
## - V42 ## - V66	1 1	52856 53732	4887981 3005.4 4888857 3005.5
## - V42 ## - V66 ## - `START YEAR`	1 1 1	52856 53732 54365	4887981 3005.4 4888857 3005.5 4889489 3005.5
## - V42 ## - V66 ## - `START YEAR` ## - V15	1 1 1	52856 53732 54365 54589	4887981 3005.4 4888857 3005.5 4889489 3005.5 4889714 3005.5
## - V42 ## - V66 ## - `START YEAR` ## - V15 ## - V65	1 1 1 1	52856 53732 54365 54589 57284	4887981 3005.4 4888857 3005.5 4889489 3005.5 4889714 3005.5 4892409 3005.7
## - V42 ## - V66 ## - `START YEAR` ## - V15 ## - V65 ## - V47	1 1 1 1 1	52856 53732 54365 54589 57284 57334	4887981 3005.4 4888857 3005.5 4889489 3005.5 4889714 3005.5 4892409 3005.7 4892458 3005.7
## - V42 ## - V66 ## - `START YEAR` ## - V15 ## - V65 ## - V47 ## - V45	1 1 1 1 1 1	52856 53732 54365 54589 57284 57334 58423	4887981 3005.4 4888857 3005.5 4889489 3005.5 4889714 3005.5 4892409 3005.7 4892458 3005.7 4893548 3005.8
## - V42 ## - V66 ## - `START YEAR` ## - V15 ## - V65 ## - V47 ## - V45 ## + V100	1 1 1 1 1 1	52856 53732 54365 54589 57284 57334 58423 2505	4887981 3005.4 4888857 3005.5 4889489 3005.5 4889714 3005.5 4892409 3005.7 4892458 3005.7 4893548 3005.8 4832620 3006.1
## - V42 ## - V66 ## - `START YEAR` ## - V15 ## - V65 ## - V47 ## - V45 ## + V100 ## + V80	1 1 1 1 1 1 1	52856 53732 54365 54589 57284 57334 58423 2505 2072	4887981 3005.4 4888857 3005.5 4889489 3005.5 4889714 3005.5 4892409 3005.7 4892458 3005.7 4893548 3005.8 4832620 3006.1 4833053 3006.1
## - V42 ## - V66 ## - `START YEAR` ## - V15 ## - V65 ## - V47 ## - V45 ## + V100 ## + V80 ## + V81	1 1 1 1 1 1 1 1	52856 53732 54365 54589 57284 57334 58423 2505 2072 2001	4887981 3005.4 4888857 3005.5 4889489 3005.5 4889714 3005.5 4892409 3005.7 4892458 3005.7 4893548 3005.8 4832620 3006.1 4833053 3006.1 4833124 3006.1
## - V42 ## - V66 ## - `START YEAR` ## - V15 ## - V65 ## - V47 ## - V45 ## + V100 ## + V80 ## + V81 ## + V93	1 1 1 1 1 1 1 1 1	52856 53732 54365 54589 57284 57334 58423 2505 2072 2001 1653	4887981 3005.4 4888857 3005.5 4889489 3005.5 4889714 3005.5 4892409 3005.7 4892458 3005.7 4893548 3005.8 4832620 3006.1 4833053 3006.1 4833124 3006.1 4833472 3006.1
## - V42 ## - V66 ## - `START YEAR` ## - V15 ## - V45 ## - V45 ## + V100 ## + V80 ## + V81 ## + V93 ## + V96	1 1 1 1 1 1 1 1 1	52856 53732 54365 54589 57284 57334 58423 2505 2072 2001 1653 1462	4887981 3005.4 4888857 3005.5 4889489 3005.5 4889714 3005.5 4892409 3005.7 4892458 3005.7 4893548 3005.8 4832620 3006.1 4833053 3006.1 4833124 3006.1 4833472 3006.1 4833663 3006.1
## - V42 ## - V66 ## - `START YEAR` ## - V15 ## - V65 ## - V47 ## - V45 ## + V100 ## + V80 ## + V81 ## + V93 ## + V96 ## + V60	1 1 1 1 1 1 1 1 1 1	52856 53732 54365 54589 57284 57334 58423 2505 2072 2001 1653 1462 1403	4887981 3005.4 4888857 3005.5 4889489 3005.5 4889714 3005.5 4892409 3005.7 4892458 3005.7 4893548 3005.8 4832620 3006.1 4833053 3006.1 4833124 3006.1 4833472 3006.1 4833663 3006.1 4833722 3006.1
## - V42 ## - V66 ## - `START YEAR` ## - V15 ## - V47 ## - V45 ## + V100 ## + V80 ## + V81 ## + V93 ## + V96 ## + V60 ## + V92	1 1 1 1 1 1 1 1 1 1	52856 53732 54365 54589 57284 57334 58423 2505 2072 2001 1653 1462 1403 1345	4887981 3005.4 4888857 3005.5 4889489 3005.5 4889714 3005.5 4892409 3005.7 4892458 3005.7 4893548 3005.8 4832620 3006.1 4833053 3006.1 4833124 3006.1 4833472 3006.1 4833722 3006.1 4833780 3006.1
## - V42 ## - V66 ## - `START YEAR` ## - V15 ## - V65 ## - V47 ## - V45 ## + V100 ## + V80 ## + V81 ## + V93 ## + V96 ## + V60	1 1 1 1 1 1 1 1 1 1 1	52856 53732 54365 54589 57284 57334 58423 2505 2072 2001 1653 1462 1403	4887981 3005.4 4888857 3005.5 4889489 3005.5 4889714 3005.5 4892409 3005.7 4892458 3005.7 4893548 3005.8 4832620 3006.1 4833053 3006.1 4833124 3006.1 4833472 3006.1 4833722 3006.1 4833780 3006.1
## - V42 ## - V66 ## - `START YEAR` ## - V15 ## - V47 ## - V45 ## + V100 ## + V80 ## + V81 ## + V93 ## + V96 ## + V60 ## + V92	1 1 1 1 1 1 1 1 1 1	52856 53732 54365 54589 57284 57334 58423 2505 2072 2001 1653 1462 1403 1345	4887981 3005.4 4888857 3005.5 4889489 3005.5 4889714 3005.5 4892409 3005.7 4892458 3005.7 4893548 3005.8 4832620 3006.1 4833053 3006.1 4833124 3006.1 4833472 3006.1 4833722 3006.1 4833780 3006.1
## - V42 ## - V66 ## - `START YEAR` ## - V15 ## - V47 ## - V45 ## + V100 ## + V80 ## + V81 ## + V96 ## + V96 ## + V92 ## + V83	1 1 1 1 1 1 1 1 1 1 1	52856 53732 54365 54589 57284 57334 58423 2505 2072 2001 1653 1462 1403 1345 1338	4887981 3005.4 4888857 3005.5 4889489 3005.5 4889714 3005.5 4892409 3005.7 4892458 3005.7 4893548 3005.8 4832620 3006.1 4833053 3006.1 4833124 3006.1 4833472 3006.1 4833722 3006.1 4833780 3006.1 4833787 3006.1 4833787 3006.1
## - V42 ## - V66 ## - `START YEAR` ## - V15 ## - V65 ## - V47 ## - V45 ## + V100 ## + V80 ## + V81 ## + V93 ## + V96 ## + V60 ## + V82 ## + V83 ## + V33	1 1 1 1 1 1 1 1 1 1 1	52856 53732 54365 54589 57284 57334 58423 2505 2072 2001 1653 1462 1403 1345 1338 1224	4887981 3005.4 4888857 3005.5 4889489 3005.5 4889714 3005.5 4892409 3005.7 4892458 3005.7 4893548 3005.8 4832620 3006.1 4833053 3006.1 4833124 3006.1 4833472 3006.1 4833722 3006.1 4833780 3006.1 4833787 3006.1 4833900 3006.1 4833900 3006.1
## - V42 ## - V66 ## - `START YEAR` ## - V15 ## - V45 ## - V45 ## + V100 ## + V80 ## + V81 ## + V93 ## + V96 ## + V60 ## + V83 ## + V83 ## + V83	1 1 1 1 1 1 1 1 1 1 1 1	52856 53732 54365 54589 57284 57334 58423 2505 2072 2001 1653 1462 1403 1345 1338 1224	4887981 3005.4 4888857 3005.5 4889489 3005.5 4889714 3005.5 4892409 3005.7 4892458 3005.7 4893548 3005.8 4832620 3006.1 4833053 3006.1 4833124 3006.1 4833472 3006.1 4833722 3006.1 4833780 3006.1 4833787 3006.1 4833900 3006.1 4833900 3006.1
## - V42 ## - V66 ## - `START YEAR` ## - V15 ## - V45 ## - V45 ## + V100 ## + V80 ## + V81 ## + V93 ## + V96 ## + V60 ## + V83 ## + V83 ## + V82 ## + V72	1 1 1 1 1 1 1 1 1 1 1 1 1	52856 53732 54365 54589 57284 57334 58423 2505 2072 2001 1653 1462 1403 1345 1338 1224 1221 1051	4887981 3005.4 4888857 3005.5 4889489 3005.5 4889714 3005.5 4892409 3005.7 4892458 3005.7 4893548 3005.8 4832620 3006.1 4833053 3006.1 4833124 3006.1 4833472 3006.1 4833722 3006.1 4833780 3006.1 4833787 3006.1 4833900 3006.1 4833900 3006.1 4834074 3006.1 4834074 3006.2
## - V42 ## - V66 ## - `START YEAR` ## - V15 ## - V65 ## - V47 ## - V45 ## + V100 ## + V80 ## + V81 ## + V93 ## + V96 ## + V60 ## + V92 ## + V83 ## + V33 ## + V82 ## + V72 ## + V79	1 1 1 1 1 1 1 1 1 1 1 1 1 1	52856 53732 54365 54589 57284 57334 58423 2505 2072 2001 1653 1462 1403 1345 1338 1224 1221 1051 939	4887981 3005.4 4888857 3005.5 4889489 3005.5 4889714 3005.5 4892409 3005.7 4892458 3005.7 4893548 3005.8 4832620 3006.1 4833053 3006.1 4833124 3006.1 4833472 3006.1 4833722 3006.1 4833780 3006.1 4833787 3006.1 4833900 3006.1 4833900 3006.1 4834074 3006.1 4834074 3006.2
## - V42 ## - V66 ## - `START YEAR` ## - V15 ## - V45 ## - V45 ## + V100 ## + V80 ## + V81 ## + V93 ## + V96 ## + V92 ## + V83 ## + V83 ## + V82 ## + V72 ## + V79 ## + V94	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	52856 53732 54365 54589 57284 57334 58423 2505 2072 2001 1653 1462 1403 1345 1338 1224 1221 1051 939 820	4887981 3005.4 4888857 3005.5 4889489 3005.5 4889714 3005.5 4892409 3005.7 4892458 3005.7 4893548 3005.8 4832620 3006.1 4833124 3006.1 4833472 3006.1 4833780 3006.1 4833780 3006.1 4833787 3006.1 4833900 3006.1 4833904 3006.1 4834074 3006.1 4834186 3006.2 4834305 3006.2
## - V42 ## - V66 ## - `START YEAR` ## - V15 ## - V45 ## - V45 ## + V100 ## + V80 ## + V81 ## + V93 ## + V96 ## + V60 ## + V83 ## + V83 ## + V72 ## + V72 ## + V79 ## + V94 ## + V85	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	52856 53732 54365 54589 57284 57334 58423 2505 2072 2001 1653 1462 1403 1345 1338 1224 1221 1051 939 820 738	4887981 3005.4 4888857 3005.5 4889489 3005.5 4889714 3005.5 4892409 3005.7 4892458 3005.7 4893548 3005.8 4832620 3006.1 4833053 3006.1 4833124 3006.1 4833472 3006.1 4833722 3006.1 4833780 3006.1 4833787 3006.1 4833900 3006.1 4833904 3006.1 4834074 3006.1 4834186 3006.2 4834387 3006.2 4834387 3006.2
## - V42 ## - V66 ## - `START YEAR` ## - V15 ## - V45 ## - V45 ## + V100 ## + V80 ## + V81 ## + V93 ## + V96 ## + V60 ## + V83 ## + V33 ## + V33 ## + V72 ## + V72 ## + V79 ## + V85 ## + V85 ## + V31	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	52856 53732 54365 54589 57284 57334 58423 2505 2072 2001 1653 1462 1403 1345 1338 1224 1221 1051 939 820 738 646	4887981 3005.4 4888857 3005.5 4889489 3005.5 4889714 3005.5 4892409 3005.7 4892458 3005.7 4893548 3005.8 4832620 3006.1 4833124 3006.1 4833722 3006.1 4833780 3006.1 4833780 3006.1 4833780 3006.1 4833900 3006.1 4833900 3006.1 4834974 3006.1 4834186 3006.2 4834387 3006.2 4834379 3006.2 4834479 3006.2
## - V42 ## - V66 ## - `START YEAR` ## - V15 ## - V65 ## - V47 ## - V45 ## + V100 ## + V80 ## + V81 ## + V93 ## + V96 ## + V60 ## + V83 ## + V33 ## + V33 ## + V72 ## + V72 ## + V79 ## + V85 ## + V31 ## + V11	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	52856 53732 54365 54589 57284 57334 58423 2505 2072 2001 1653 1462 1403 1345 1338 1224 1221 1051 939 820 738 646 613	4887981 3005.4 4888857 3005.5 4889489 3005.5 4889714 3005.5 4892409 3005.7 4892458 3005.7 4893548 3005.8 4832620 3006.1 4833124 3006.1 4833722 3006.1 4833780 3006.1 4833780 3006.1 4833780 3006.1 4833900 3006.1 4833900 3006.1 4834974 3006.1 4834186 3006.2 4834387 3006.2 4834379 3006.2 4834479 3006.2
## - V42 ## - V66 ## - `START YEAR` ## - V15 ## - V45 ## - V45 ## + V100 ## + V80 ## + V81 ## + V93 ## + V96 ## + V60 ## + V83 ## + V72 ## + V72 ## + V79 ## + V85 ## + V31 ## + V36	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	52856 53732 54365 54589 57284 57334 58423 2505 2072 2001 1653 1462 1403 1345 1338 1224 1221 1051 939 820 738 646 613 597 592	4887981 3005.4 4888857 3005.5 4889489 3005.5 4889714 3005.5 4892409 3005.7 4892458 3005.7 4893548 3005.8 4832620 3006.1 4833053 3006.1 4833124 3006.1 4833472 3006.1 4833780 3006.1 4833780 3006.1 4833787 3006.1 4833900 3006.1 4833904 3006.1 4834074 3006.1 4834186 3006.2 4834387 3006.2 4834479 3006.2 4834527 3006.2 4834527 3006.2 4834533 3006.2
## - V42 ## - V66 ## - `START YEAR` ## - V15 ## - V45 ## - V45 ## + V100 ## + V80 ## + V81 ## + V93 ## + V96 ## + V60 ## + V83 ## + V72 ## + V72 ## + V72 ## + V79 ## + V85 ## + V31 ## + V36 ## + V36 ## + V95	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	52856 53732 54365 54589 57284 57334 58423 2505 2072 2001 1653 1462 1403 1345 1338 1224 1221 1051 939 820 738 646 613 597	4887981 3005.4 4888857 3005.5 4889489 3005.5 4889714 3005.5 4892409 3005.7 4892458 3005.7 4893548 3006.1 4833053 3006.1 4833124 3006.1 4833722 3006.1 4833780 3006.1 4833787 3006.1 4833904 3006.1 4834904 3006.1 4834904 3006.1 4834074 3006.1 4834074 3006.2 4834387 3006.2 4834531 3006.2 4834511 3006.2 4834533 3006.2 4834533 3006.2 4834533 3006.2

```
## + V103
                                          4834594 3006.2
                           1
                                   531
## + V76
                                          4834635 3006.2
                           1
                                    489
## + V24
                                    484
                           1
                                          4834641 3006.2
## + V102
                           1
                                    482
                                          4834643 3006.2
## + V99
                           1
                                    391
                                          4834734 3006.2
## + V101
                           1
                                    357
                                          4834768 3006.2
## + V14
                           1
                                    293
                                          4834831 3006.2
## + V71
                           1
                                    263
                                          4834862 3006.2
## + V91
                                    247
                                          4834877 3006.2
                           1
## + V75
                           1
                                    240
                                          4834885 3006.2
## + V98
                           1
                                    213
                                          4834912 3006.2
## + V86
                                          4834917 3006.2
                           1
                                    208
## + V74
                           1
                                    161
                                          4834964 3006.2
## + V73
                           1
                                   156
                                          4834969 3006.2
## + V21
                                          4834973 3006.2
                           1
                                    152
## + V77
                           1
                                   128
                                          4834997 3006.2
## + V89
                           1
                                    101
                                          4835024 3006.2
## + V97
                           1
                                     53
                                          4835071 3006.2
## + V87
                           1
                                     49
                                          4835076 3006.2
## + V61
                           1
                                     35
                                          4835090 3006.2
## + V46
                                     15
                                          4835110 3006.2
                           1
## + V84
                           1
                                      9
                                          4835116 3006.2
## + V78
                           1
                                      3
                                          4835122 3006.2
## + V90
                           1
                                      0
                                          4835125 3006.2
## + V43
                           1
                                      0
                                          4835125 3006.2
## - V1
                           1
                                  66564
                                          4901689 3006.3
## - V40
                           1
                                  67681
                                          4902806 3006.3
## - V53
                           1
                                 70382
                                          4905507 3006.5
## - `START QUARTER`
                           1
                                  74325
                                          4909449 3006.7
## - V26
                                 76032
                           1
                                          4911157 3006.8
## - V34
                           1
                                  76525
                                          4911650 3006.9
## - V59
                           1
                                  86096
                                          4921221 3007.5
## - V64
                           1
                                  87164
                                          4922289 3007.5
## - V51
                                 88155
                                          4923280 3007.6
                           1
## - V37
                           1
                                  88469
                                          4923594 3007.6
## - V48
                           1
                                  88566
                                          4923691 3007.6
## - V13
                                          4928229 3007.9
                           1
                                 93104
## - V6
                           1
                                122837
                                          4957962 3009.7
## - V23
                           1
                                125997
                                          4961122 3009.9
## - V2
                           1
                                144386
                                          4979511 3011.0
## - V5
                                          4995023 3011.9
                           1
                                159899
## - V32
                           1
                                171504
                                          5006629 3012.6
## - V70
                           1
                                198347
                                          5033472 3014.2
## - V3
                           1
                                270675
                                          5105799 3018.4
## - `COMPLETION QUARTER` 1
                                724661
                                          5559786 3043.7
## - `COMPLETION YEAR`
                           1
                                777594
                                          5612718 3046.5
## - V8
                           1 102942111 107777236 3924.1
##
## Step: AIC=3002.25
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
       V1 + V2 + V3 + V4 + V5 + V6 + V8 + V9 + V10 + V12 + V13 +
##
##
       V15 + V16 + V17 + V18 + V19 + V20 + V22 + V23 + V25 + V26 +
##
       V28 + V29 + V30 + V32 + V34 + V35 + V37 + V38 + V39 + V40 +
       V41 + V42 + V45 + V47 + V48 + V49 + V50 + V51 + V52 + V53 +
##
##
       V54 + V55 + V56 + V57 + V58 + V59 + V62 + V63 + V64 + V65 +
       V66 + V67 + V68 + V69 + V70
##
```

##				
##	Df S	um of Sq	RSS AIC	2
## - V18	1	3933	4839739 3000.5	5
## - V28	1	4192	4839998 3000.5	5
## - V56	1	7897	4843703 3000.7	7
## - V25	1	8443	4844249 3000.8	3
## - V39	1	8754	4844559 3000.8	3
## - V9	1	9519	4845325 3000.8	3
## - V67	1	9751	4845556 3000.9)
## - V30	1	9924	4845730 3000.9)
## - V4	1	11558	4847364 3001.6)
## - V54	1	12215	4848021 3001.0)
## - V49	1	13437	4849243 3001.1	L
## - V10	1	13496	4849302 3001.1	L
## - V35	1	14239	4850044 3001.1	L
## - V29	1	15239	4851044 3001.2	2
## - V41	1	17371	4853176 3001.3	3
## - V16	1	18041	4853847 3001.4	ļ
## - V69	1	20790	4856596 3001.5	5
## - V52	1	22000	4857806 3001.6	5
## - V55	1	27876	4863682 3002.6)
## - V58	1	28746	4864551 3002.0)
## - V57	1	28934	4864740 3002.6)
## - V12	1	30156	4865962 3002.1	L
## <none></none>			4835806 3002.3	3
## - V62	1	33141	4868947 3002.3	3
## - V68	1	35899	4871705 3002.5	5
## - V19	1	37655	4873461 3002.6	5
## - V38	1	38268	4874073 3002.6	5
## - V50	1	40938	4876743 3002.8	3
## - V17	1	48942	4884748 3003.2	2
## - V20	1	50088	4885894 3003.3	3
## - V66	1	53650	4889456 3003.5	5
## - `START YEAR`	1	54077	4889883 3003.6	5
## - V15	1	56557	4892362 3003.7	7
## - V65	1	56749	4892554 3003.7	7
## - V45	1	57764	4893570 3003.8	3
## + V100	1	3111	4832694 3004.1	L
## + V93	1	2245	4833561 3004.1	L
## + V81	1	2013	4833792 3004.1	L
## - V22	1	63553	4899359 3004.1	L
## + V92	1	1935	4833871 3004.1	L
## + V83	1	1913	4833893 3004.1	L
## + V82	1	1894	4833912 3004.1	L
## - V42	1	64114	4899920 3004.2	2
## + V72	1	1431	4834375 3004.2	2
## + V80	1	1328	4834477 3004.2	2
## + V31	1	1315	4834491 3004.2	2
## + V88	1	1197	4834609 3004.2	2
## + V94	1	1153	4834653 3004.2	2
## + V102	1	1143	4834663 3004.2	2
## + V60	1	1076	4834730 3004.2	2
## + V103	1	1046	4834760 3004.2	2
## + V101	1	885	4834921 3004.2	2
## + V27	1	879	4834927 3004.2	2
## + V79	1	872	4834934 3004.2	2

```
## + V24
                                    833
                                          4834973 3004.2
                            1
## + V76
                            1
                                    737
                                          4835069 3004.2
## + V44
                                          4835125 3004.2
                            1
                                    681
## + V96
                            1
                                    622
                                          4835184 3004.2
## + V14
                            1
                                    547
                                          4835259 3004.2
## + V99
                            1
                                    528
                                          4835278 3004.2
## + V33
                            1
                                    475
                                          4835331 3004.2
## + V36
                            1
                                    435
                                          4835371 3004.2
## + V73
                            1
                                    346
                                          4835460 3004.2
## + V86
                            1
                                    322
                                          4835484 3004.2
## + V71
                            1
                                    269
                                          4835537 3004.2
## + V95
                                          4835558 3004.2
                            1
                                    247
## + V91
                            1
                                    220
                                          4835585 3004.2
## + V85
                            1
                                    156
                                          4835649 3004.2
## + V75
                            1
                                          4835703 3004.2
                                    103
## + V77
                            1
                                     60
                                          4835746 3004.3
## + V61
                            1
                                     42
                                          4835764 3004.3
## + V43
                            1
                                     28
                                          4835778 3004.3
## + V84
                            1
                                     27
                                           4835779 3004.3
## + V90
                            1
                                     27
                                          4835779 3004.3
## + V87
                            1
                                     24
                                          4835781 3004.3
## + V78
                            1
                                     24
                                          4835782 3004.3
## + V98
                            1
                                     21
                                          4835785 3004.3
## + V21
                            1
                                     13
                                          4835793 3004.3
## + V46
                                      3
                                          4835803 3004.3
                            1
## + V74
                            1
                                      3
                                          4835803 3004.3
## + V89
                            1
                                      2
                                          4835804 3004.3
## + V11
                            1
                                      0
                                          4835806 3004.3
## + V97
                            1
                                      0
                                          4835806 3004.3
## - V1
                            1
                                          4902123 3004.3
                                  66317
## - V63
                            1
                                  66982
                                          4902788 3004.3
## - V40
                            1
                                  69880
                                          4905686 3004.5
## - V53
                            1
                                  71179
                                          4906985 3004.6
## - V47
                                          4908407 3004.7
                            1
                                  72601
## - `START QUARTER`
                            1
                                  73727
                                          4909532 3004.7
## - V26
                            1
                                  75392
                                          4911197 3004.8
## - V34
                                          4913438 3005.0
                            1
                                  77632
## - V59
                            1
                                  85583
                                          4921388 3005.5
## - V64
                            1
                                  86586
                                          4922391 3005.5
## - V37
                            1
                                  90070
                                          4925876 3005.7
## - V13
                            1
                                  97815
                                          4933621 3006.2
## - V48
                            1
                                 109708
                                          4945514 3006.9
## - V51
                            1
                                 110985
                                          4946791 3007.0
## - V6
                            1
                                 128714
                                          4964519 3008.1
## - V2
                            1
                                 143749
                                          4979555 3009.0
## - V23
                            1
                                 151241
                                          4987047 3009.4
## - V5
                            1
                                 162637
                                          4998442 3010.1
## - V32
                            1
                                 171431
                                          5007237 3010.6
## - V70
                            1
                                 268512
                                          5104318 3016.3
## - V3
                            1
                                 270744
                                          5106549 3016.4
## - `COMPLETION QUARTER`
                            1
                                 724757
                                          5560563 3041.7
## - `COMPLETION YEAR`
                            1
                                 782924
                                          5618730 3044.8
## - V8
                            1 103271746 108107552 3923.1
##
## Step: AIC=3000.5
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
```

```
##
       V1 + V2 + V3 + V4 + V5 + V6 + V8 + V9 + V10 + V12 + V13 +
       V15 + V16 + V17 + V19 + V20 + V22 + V23 + V25 + V26 + V28 +
##
##
       V29 + V30 + V32 + V34 + V35 + V37 + V38 + V39 + V40 + V41 +
       V42 + V45 + V47 + V48 + V49 + V50 + V51 + V52 + V53 + V54 +
##
       V55 + V56 + V57 + V58 + V59 + V62 + V63 + V64 + V65 + V66 +
##
##
       V67 + V68 + V69 + V70
##
                           Df Sum of Sq
##
                                                RSS
                                                       ATC
## - V25
                                    4597
                                           4844336 2998.8
                            1
## - V28
                            1
                                    4954
                                           4844692 2998.8
## - V39
                            1
                                    5192
                                           4844931 2998.8
## - V9
                                           4845385 2998.8
                            1
                                    5646
## - V30
                            1
                                    6897
                                           4846635 2998.9
## - V56
                            1
                                    9026
                                           4848765 2999.0
## - V49
                            1
                                    9588
                                           4849326 2999.1
## - V10
                            1
                                    9589
                                           4849328 2999.1
## - V4
                            1
                                   11301
                                           4851040 2999.2
## - V29
                            1
                                   12126
                                           4851865 2999.2
## - V41
                            1
                                   14205
                                           4853944 2999.4
## - V35
                            1
                                   14713
                                           4854451 2999.4
## - V52
                            1
                                   18492
                                           4858230 2999.6
## - V67
                            1
                                   19047
                                           4858786 2999.7
## - V69
                            1
                                           4859563 2999.7
                                   19824
## - V57
                            1
                                   26305
                                           4866044 3000.1
## - V58
                                           4866617 3000.1
                            1
                                   26878
## - V54
                            1
                                   27828
                                           4867566 3000.2
## - V55
                                           4868117 3000.2
                            1
                                   28379
                                   29401
## - V12
                            1
                                           4869140 3000.3
## - V68
                            1
                                           4871721 3000.5
                                   31982
                                           4839739 3000.5
## <none>
## - V16
                            1
                                   34427
                                           4874165 3000.6
## - V19
                            1
                                   34434
                                           4874173 3000.6
## - V38
                            1
                                           4876369 3000.7
                                   36630
## - V62
                            1
                                   36938
                                           4876677 3000.8
## - V50
                            1
                                   37825
                                           4877564 3000.8
## - V20
                            1
                                   48624
                                           4888363 3001.5
## - V66
                            1
                                   49731
                                           4889469 3001.5
## - V65
                            1
                                   54013
                                           4893752 3001.8
## - V17
                            1
                                   55830
                                           4895569 3001.9
## - V45
                            1
                                   58170
                                           4897908 3002.0
## + V100
                                           4833877 3002.1
                            1
                                    5861
## - V22
                            1
                                   60742
                                           4900481 3002.2
## + V81
                            1
                                    4597
                                           4835142 3002.2
## + V72
                            1
                                    4567
                                           4835172 3002.2
## + V18
                            1
                                    3933
                                           4835806 3002.3
## + V92
                            1
                                    3890
                                           4835849 3002.3
## + V83
                            1
                                    3326
                                           4836412 3002.3
## + V27
                            1
                                           4836532 3002.3
                                    3206
## - V42
                            1
                                   62504
                                           4902243 3002.3
## + V80
                            1
                                    2950
                                           4836789 3002.3
## + V79
                            1
                                    2829
                                           4836910 3002.3
## + V88
                            1
                                    2534
                                           4837205 3002.3
## - V15
                            1
                                           4902813 3002.3
                                   63075
## + V93
                            1
                                    2277
                                           4837461 3002.4
## + V86
                            1
                                    2145
                                           4837594 3002.4
## + V77
                            1
                                    1998
                                           4837741 3002.4
```

## + V31	1	1893	4837845	3002.4	
## + V60	1	1893	4837846	3002.4	
## + V43	1	1491	4838247	3002.4	
## + V78	1	1465	4838274	3002.4	
## + V97	1	1404	4838334	3002.4	
## + V99	1	1401	4838337	3002.4	
## + V82	1	1392	4838347	3002.4	
## + V33	1	1389	4838350	3002.4	
## + V101	1	1368	4838371	3002.4	
## + V46	1	1249	4838489	3002.4	
## + V103	1	1124	4838615	3002.4	
## + V90	1	951	4838788	3002.4	
## + V94	1	944	4838794	3002.4	
## + V36	1	827	4838912	3002.4	
## + V89	1	818	4838920	3002.4	
## + V96	1	684	4839055	3002.5	
## + V98	1	591	4839147	3002.5	
## + V87	1	531	4839208	3002.5	
## + V24	1	504	4839235	3002.5	
## + V74	1	469	4839270	3002.5	
## + V71	1	427	4839312	3002.5	
## + V73	1	386	4839352	3002.5	
## + V95	1	383	4839355	3002.5	
## + V14	1	359	4839380	3002.5	
## + V102	1	304	4839435		
## + V44	1	273	4839466	3002.5	
## + V21	1	268			
## + V61	1	234			
## + V84	1	155			
## + V75	1	67			
## + V91	1	30	4839708		
## + V85	1	30			
## + V76	1	14			
## + V11	1	7			
## - V63	1		4905536		
## - V40	1		4907801		
## - V1	1		4908029		
## - V47	1		4908764		
## - V34	1		4913496		
## - V26	1		4913725		
## - `START QUARTER`			4920872		
## - V53	1		4924657		
## - V59	1		4929619		
## - V64	1		4929675		
## - V37			4930332		
## - V48	1		4947336		
## - V13 ## - V51	1 1	108388	4948126 4951195		
## - V31 ## - `START YEAR`	1		4951195		
## - V6	1		4966829		
## - V0 ## - V2	1		4966829		
## - V2	1		5002313		
## - V23	1		5023165		
## - V23	1		5038659		
## - V32 ## - V70	1		5105202		
## - V3	1		5111382		
""	_	۵/ ±0 +4	211106	JU17./	

```
## - `COMPLETION QUARTER` 1
                                 735209
                                          5574947 3040.5
## - `COMPLETION YEAR`
                           1
                                 797371
                                          5637110 3043.8
## - V8
                            1 103364180 108203918 3921.3
##
## Step: AIC=2998.78
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
##
       V1 + V2 + V3 + V4 + V5 + V6 + V8 + V9 + V10 + V12 + V13 +
##
       V15 + V16 + V17 + V19 + V20 + V22 + V23 + V26 + V28 + V29 +
       V30 + V32 + V34 + V35 + V37 + V38 + V39 + V40 + V41 + V42 +
##
       V45 + V47 + V48 + V49 + V50 + V51 + V52 + V53 + V54 + V55 +
##
       V56 + V57 + V58 + V59 + V62 + V63 + V64 + V65 + V66 + V67 +
##
       V68 + V69 + V70
##
##
##
                           Df Sum of Sq
                                               RSS
                                                      AIC
## - V39
                            1
                                   1785
                                          4846121 2996.9
## - V28
                            1
                                   2916
                                          4847252 2997.0
## - V30
                            1
                                   2932
                                          4847268 2997.0
## - V9
                            1
                                   3403
                                          4847738 2997.0
## - V49
                            1
                                   5051
                                           4849387 2997.1
## - V35
                            1
                                  10886
                                          4855222 2997.4
## - V41
                                          4855348 2997.5
                            1
                                  11012
## - V56
                                          4855991 2997.5
                            1
                                  11656
## - V10
                            1
                                  11958
                                          4856293 2997.5
## - V4
                            1
                                  13963
                                          4858298 2997.6
## - V67
                                          4858789 2997.7
                            1
                                  14453
## - V52
                            1
                                  15067
                                          4859403 2997.7
## - V69
                            1
                                  18332
                                          4862667 2997.9
## - V29
                            1
                                  22770
                                          4867105 2998.2
## - V57
                            1
                                  24325
                                          4868661 2998.3
## - V58
                            1
                                  25982
                                          4870318 2998.4
## - V12
                            1
                                  26376
                                          4870712 2998.4
## - V55
                            1
                                  28001
                                          4872336 2998.5
## <none>
                                          4844336 2998.8
## - V19
                                          4878171 2998.8
                            1
                                  33835
## - V38
                            1
                                  41194
                                          4885530 2999.3
## - V62
                            1
                                  41376
                                          4885711 2999.3
## - V68
                            1
                                  45789
                                          4890125 2999.6
## - V66
                            1
                                  48324
                                          4892660 2999.7
## - V20
                            1
                                  51122
                                          4895458 2999.9
## - V16
                            1
                                  52932
                                          4897267 3000.0
## - V50
                            1
                                  57878
                                          4902214 3000.3
## + V100
                            1
                                   7297
                                           4837038 3000.3
## - V45
                            1
                                  58632
                                          4902968 3000.4
## + V72
                            1
                                   6691
                                           4837645 3000.4
## - V65
                            1
                                  59469
                                           4903804 3000.4
## - V22
                            1
                                  59732
                                           4904068 3000.4
## + V86
                            1
                                   5778
                                           4838558 3000.4
## + V31
                            1
                                   5436
                                          4838900 3000.4
## + V77
                            1
                                   5096
                                          4839239 3000.5
## + V25
                            1
                                   4597
                                           4839739 3000.5
## + V27
                                   3996
                            1
                                          4840339 3000.5
## + V36
                            1
                                   3909
                                          4840426 3000.5
## + V90
                            1
                                   3905
                                          4840431 3000.5
## + V43
                            1
                                   3633
                                          4840703 3000.6
## + V94
                            1
                                   3186
                                          4841150 3000.6
## + V60
                            1
                                   2979
                                          4841357 3000.6
```

## + V 99	1	2730	4841606	3000.6	
## + V79	1	2575	4841761	3000.6	
## + V81	1	2504	4841832	3000.6	
## + V80	1	2490	4841846	3000.6	
## + V98	1	2063	4842272	3000.7	
## + V91	1	1880	4842455	3000.7	
## + V61	1	1880	4842456	3000.7	
## + V78	1	1525	4842810	3000.7	
## + V33	1	1485	4842851	3000.7	
## + V71	1	1416	4842919	3000.7	
## - V40	1	64251	4908587	3000.7	
## + V85	1	1132	4843204	3000.7	
## + V83	1	1042	4843294	3000.7	
## + V84	1	947	4843389	3000.7	
## + V14	1	798	4843537	3000.7	
## + V76	1	775	4843561	3000.7	
## + V88	1	544	4843791	3000.7	
## + V21	1	538	4843797	3000.7	
## + V87	1	476	4843860	3000.7	
## + V44	1	467	4843869		
## + V89	1	325	4844011		
## + V46	1	268	4844068	3000.8	
## + V95	1	259	4844077	3000.8	
## + V97	1	230	4844106	3000.8	
## + V102	1	202	4844133		
## + V82	1	144	4844191		
## + V93	1	103	4844233		
## + V92	1	99	4844237		
## + V73	1	89	4844247		
## + V18	1	87	4844249		
## + V74	1	38	4844298		
## + V24	1	35	4844300		
## + V11	1		4844312		
## + V103	1	20			
## + V75	1	18	4844317		
## + V101	1	2			
## + V96	1	0			
## - V1	1	66549			
## - V54	1		4914715		
## - V26	1		4915263		
## - V34	1	73876			
## - V42	1		4926180		
## - `START QUAF			4929548		
## - V64	1		4930561		
## - V37	1		4930686		
## - V15	1	90813			
## - V59	1	104786			
## - V63	1	104786	4949121		
## - V47	1		4951799		
## - V47 ## - V17	1		4951799		
## - V17 ## - `START YEAR			4900354		
## - V53	1	129280			
## - V6	1		4975708		
## - V51	1		4978430		
## - V48	1		4978430		
## - V43	1		4984477		
nπ V Z	1	140147	サンリササ //	J00J.Z	

```
## - V5
                                          5011009 3006.8
                           1
                                 166674
## - V23
                            1
                                 178884
                                          5023220 3007.5
## - V13
                           1
                                 197650
                                          5041985 3008.7
## - V70
                                          5105313 3012.4
                            1
                                 260977
## - V3
                                          5111700 3012.7
                            1
                                 267364
## - V32
                            1
                                 292843
                                          5137178 3014.2
## - `COMPLETION QUARTER`
                           1
                                 730642
                                          5574978 3038.5
## - `COMPLETION YEAR`
                           1 793234
                                          5637569 3041.8
## - V8
                            1 103461925 108306261 3919.6
##
## Step: AIC=2996.89
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
##
       V1 + V2 + V3 + V4 + V5 + V6 + V8 + V9 + V10 + V12 + V13 +
##
       V15 + V16 + V17 + V19 + V20 + V22 + V23 + V26 + V28 + V29 +
       V30 + V32 + V34 + V35 + V37 + V38 + V40 + V41 + V42 + V45 +
##
##
       V47 + V48 + V49 + V50 + V51 + V52 + V53 + V54 + V55 + V56 +
##
       V57 + V58 + V59 + V62 + V63 + V64 + V65 + V66 + V67 + V68 +
##
       V69 + V70
##
##
                          Df Sum of Sq
                                              RSS
                                                     AIC
## - V30
                                          4848857 2995.1
                            1
                                   2736
## - V9
                           1
                                   3043
                                          4849163 2995.1
## - V28
                                  3206
                            1
                                          4849327 2995.1
## - V49
                           1
                                   3523
                                          4849643 2995.1
## - V35
                            1
                                          4855764 2995.5
                                  9643
## - V41
                           1
                                  10187
                                          4856308 2995.5
## - V10
                            1
                                  10593
                                          4856714 2995.5
## - V67
                            1
                                  12886
                                          4859007 2995.7
## - V4
                            1
                                          4859646 2995.7
                                  13525
## - V56
                            1
                                  13748
                                          4859868 2995.7
## - V52
                           1
                                  13783
                                          4859904 2995.7
## - V69
                           1
                                  17138
                                          4863259 2995.9
## - V29
                           1
                                  21584
                                          4867704 2996.2
## - V12
                                          4870797 2996.4
                           1
                                  24677
## - V55
                           1
                                  27116
                                          4873237 2996.5
## - V57
                            1
                                  27549
                                          4873669 2996.6
## - V58
                           1
                                  30694
                                          4876815 2996.8
## <none>
                                          4846121 2996.9
## - V19
                            1
                                  40891
                                          4887011 2997.4
## - V68
                            1
                                  48903
                                          4895024 2997.9
## - V66
                            1
                                  48937
                                          4895058 2997.9
## - V62
                            1
                                  51581
                                          4897701 2998.0
## - V16
                            1
                                  52570
                                          4898691 2998.1
## - V50
                            1
                                  56094
                                          4902214 2998.3
## + V100
                            1
                                   8055
                                          4838066 2998.4
## + V31
                            1
                                   7048
                                          4839072 2998.5
## + V86
                            1
                                   5732
                                          4840388 2998.5
## + V72
                            1
                                   5075
                                          4841046 2998.6
## + V27
                            1
                                   4951
                                          4841170 2998.6
## - V65
                            1
                                  61516
                                          4907637 2998.6
## + V77
                            1
                                   3824
                                          4842297 2998.7
## + V33
                            1
                                   3115
                                          4843006 2998.7
## + V81
                           1
                                  3025
                                          4843096 2998.7
## + V91
                            1
                                   2845
                                          4843275 2998.7
                                          4908977 2998.7
## - V40
                            1
                                  62856
## + V78
                            1
                                   2799
                                          4843322 2998.7
```

ı	## +	V60	1	2661	4843459	2998.7
	## +	V36	1	2456	4843665	2998.7
	## +	V90	1	2455	4843665	2998.7
	## +	V83	1	2168	4843953	2998.8
	## +		1	1785	4844336	
	## +		1	1659	4844462	
	## +		1	1554	4844566	
	## +		1	1303	4844817	
	## +		1	1190	4844931	
	## +		1	1144	4844977	
	## +		1	1136	4844984	
	## +		1	1036	4845085	
	## +		1	1005	4845116	
		V102	1	927	4845194	
	## +		1	862	4845259	
	## +	V24	1	836	4845285	
	## +	V98	1	691	4845429	2998.8
	## -	V20	1	65231	4911352	2998.9
	## +	V87	1	462	4845659	2998.9
	## +	V84	1	403	4845718	2998.9
	## +	V94	1	401	4845720	2998.9
	## +	V82	1	377	4845743	2998.9
	## +	V99	1	374	4845746	2998.9
	## +	V85	1	341	4845779	2998.9
	## +	V61	1	295	4845826	2998.9
	## +	V46	1	239	4845881	2998.9
	## +	V103	1	229	4845892	2998.9
	## +	V95	1	164	4845957	
	## +	V44	1	119	4846001	2998.9
	## +		1	112	4846009	
	## +		1	98	4846023	
	## +		1	91	4846030	
	## +		1		4846045	
	## -		1		4911798	
	## +		1		4846095	
	## +		1	9	4846112	
	## +				4846114	
			1			
	## +		1		4846117	
		V101	1		4846120	
	## +		1		4846120	
	## +		1		4846121	
	## -		1		4914202	
	## -	V54	1	69500	4915621	2999.1
	## -	V45	1	69624	4915744	2999.1
	## -	V34	1	72138	4918258	2999.3
	## -	V37	1	84737	4930858	3000.0
	## -	V42	1	87431	4933551	3000.2
	## -	V26	1	89042	4935162	3000.3
	## -	V15	1	90940	4937060	3000.4
	## -	V38	1	94746	4940866	3000.6
	## -	`START QUARTER`	1	99203	4945324	3000.9
	## -	V59	1	103544	4949665	3001.2
	## -	V47	1	106516	4952637	3001.3
	## -	V64	1		4957398	
	## -		1	113657		
	## -		1	129727		
			-	,_,		

```
## - V53
                                         4975855 3002.7
                           1
                                129734
## - `START YEAR`
                           1
                                139576
                                         4985697 3003.3
## - V2
                           1
                                141899
                                         4988020 3003.5
## - V48
                           1
                                         4996359 3004.0
                                150239
## - V5
                                164899
                                         5011020 3004.8
                           1
## - V17
                           1
                                170274
                                         5016395 3005.1
## - V23
                           1
                                178581
                                         5024702 3005.6
## - V51
                           1
                                221219
                                         5067339 3008.1
## - V3
                                267812
                                         5113933 3010.9
                           1
## - V70
                           1
                                316318
                                         5162438 3013.7
## - V32
                           1
                                320136
                                         5166257 3013.9
## - V13
                           1
                              388851
                                         5234972 3017.8
## - `COMPLETION QUARTER` 1
                                729503
                                         5575624 3036.5
## - `COMPLETION YEAR`
                         1 792200
                                         5638321 3039.9
## - V8
                           1 103511125 108357246 3917.7
##
## Step: AIC=2995.05
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
##
       V1 + V2 + V3 + V4 + V5 + V6 + V8 + V9 + V10 + V12 + V13 +
##
       V15 + V16 + V17 + V19 + V20 + V22 + V23 + V26 + V28 + V29 +
       V32 + V34 + V35 + V37 + V38 + V40 + V41 + V42 + V45 + V47 +
##
       V48 + V49 + V50 + V51 + V52 + V53 + V54 + V55 + V56 + V57 +
##
       V58 + V59 + V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 +
##
##
       V70
##
##
                          Df Sum of Sq
                                              RSS
                                                     ATC
## - V49
                           1
                                   907
                                          4849764 2993.1
## - V9
                           1
                                         4851058 2993.2
                                  2202
## - V28
                                  4913
                           1
                                         4853770 2993.4
## - V35
                           1
                                  8396
                                          4857252 2993.6
## - V41
                           1
                                  9318
                                         4858175 2993.6
## - V67
                           1
                                 10264
                                         4859120 2993.7
## - V52
                           1
                                 11169
                                         4860026 2993.7
## - V56
                                          4860421 2993.8
                           1
                                 11564
## - V4
                           1
                                 12790
                                         4861647 2993.8
## - V69
                           1
                                 16297
                                          4865153 2994.1
## - V12
                           1
                                 22442
                                         4871298 2994.4
## - V10
                           1
                                 24059
                                         4872916 2994.5
## - V57
                           1
                                 25173
                                          4874029 2994.6
## - V55
                           1
                                 28914
                                          4877771 2994.8
## - V58
                           1
                                 30114
                                          4878971 2994.9
## <none>
                                          4848857 2995.1
## - V19
                           1
                                 40098
                                          4888955 2995.5
## - V29
                           1
                                 44816
                                          4893673 2995.8
## - V66
                           1
                                 49281
                                          4898138 2996.1
## - V16
                           1
                                 50963
                                          4899820 2996.2
## - V62
                           1
                                 53502
                                          4902359 2996.3
## + V72
                           1
                                  7772
                                          4841085 2996.6
## + V100
                           1
                                  6540
                                          4842317 2996.7
## + V31
                           1
                                  6081
                                          4842776 2996.7
## + V27
                           1
                                  4834
                                         4844023 2996.8
## + V86
                           1
                                  4127
                                          4844730 2996.8
## + V60
                           1
                                  3819
                                         4845037 2996.8
## + V80
                           1
                                  3028
                                         4845828 2996.9
## + V43
                           1
                                  2870
                                         4845987 2996.9
## + V30
                           1
                                  2736
                                         4846121 2996.9
```

## +	- V89	1 2529	9 4846328	2996.9	9
## +	· V79	1 245:	1 4846406	2996.9	9
## +	· V98	1 2348	8 4846508	3 2996.9	9
## +	- V78	1 232!	5 4846532	2996.9	9
## +	- V77	1 2300	0 4846557	2996.9	9
## +	- V83	1 178!	5 4847071	2996.9	9
## +	· V39	1 1589	9 4847268	3 2997.0	0
## +	- V84	1 157	3 4847284	2997.0	0
## -	V50	1 64288	8 4913145	2997.0	0
## -	V1	1 64494	4 4913351	2997.0	0
## +	- V33	1 1212	2 4847644	2997.0	0
## +	· V61	1 1209	9 4847648	3 2997.0	0
## +	· V81	1 1200	6 4847651	2997.0	0
## +	· V102	1 1099	9 4847758	3 2997.0	0
## +	- V96	1 876	6 4847981	2997.0	0
## +	- V88	1 86	5 4847992	2997.0	0
## +	· V21	1 783	2 4848075	2997.0	0
	- V76	1 72		3 2997.0	
	- V36	1 67		2997.0	
	· V103	1 65:		5 2997.0	
	· V71	1 643		2997.0 2997.0	
	· V91	1 459		2997.0 2997.0	
	· V91	1 43:		2997.0	
	· V99			2997.0 2997.0	
	· V97	1 403		9 2997.0 5 2007 0	
	· V90	1 40:		2997.0	
	· V46	1 373		2997.0	
	· V95	1 34:		2997.0	
	· V74	1 264		2997.0	
	- V44	1 26:		2997.0	
	- V82	1 246		2997.0	
## +	· V94	1 18:		2997.0	
## +	· V11	1 8:	3 4848774	2997.0	0
## +	· V92	1 62	2 4848795	2997.1	1
## +	· V73	1 52	2 4848805	2997.1	1
## +	· V24	1 40	0 4848817	2997.1	1
## +	· V18	1 38	8 4848819	2997.1	1
## +	· V101	1 34	4 4848823	2997.1	1
## +	· V25	1 2:	2 4848835	2997.1	1
	· V75	1 1!		2997.1	
	· V14			2997.1	
	· V93			3 2997.1	
	· V87			2997.1 2997.1	
	V40	1 6576		2997.1 2997.1	
	V46 V65	1 6581		9 2997.1	
	V20	1 6748		, 2997.1) 2997.2	
	V68	1 67580		3 2997.2	
	V45	1 6817		2997.2	
	V22	1 7298		2997.5	
	V54	1 76120		2 2997.7	
	V34	1 76658		2997.7	
	V37	1 82084		2998.0	
	V42	1 8515		2998.2	
## -	V26	1 9007	3 4938930	2998.5	5
## -	V15	1 90594	4 4939451	2998.6	6
## -	V38	1 92010	0 4940867	2998.6	6

```
## - `START QUARTER`
                           1
                                 99646
                                         4948503 2999.1
## - V59
                           1
                                104695
                                         4953551 2999.4
## - V47
                           1
                                110791
                                         4959648 2999.8
## - V64
                                         4960735 2999.8
                           1
                                111878
## - V6
                                127703
                           1
                                         4976560 3000.8
## - V53
                           1
                                128158
                                         4977015 3000.8
## - V63
                           1
                                136426
                                         4985283 3001.3
## - `START YEAR`
                           1
                              137208
                                         4986065 3001.3
## - V2
                                         4991180 3001.6
                           1
                                142323
## - V5
                           1
                                162593
                                         5011449 3002.9
## - V17
                           1
                                168796
                                         5017652 3003.2
## - V48
                           1
                                180599
                                         5029456 3003.9
## - V23
                           1
                                191092
                                         5039949 3004.5
## - V51
                           1
                                218613
                                         5067470 3006.2
## - V3
                           1
                                266117
                                         5114974 3008.9
## - V32
                           1
                                320080
                                         5168936 3012.0
## - V70
                           1
                                321917
                                         5170774 3012.1
## - V13
                           1
                                390804
                                         5239661 3016.1
## - `COMPLETION QUARTER`
                           1
                                727755
                                         5576612 3034.6
## - `COMPLETION YEAR`
                           1 789981
                                         5638838 3037.9
## - V8
                           1 103523462 108372319 3915.8
##
## Step: AIC=2993.11
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
       V1 + V2 + V3 + V4 + V5 + V6 + V8 + V9 + V10 + V12 + V13 +
##
       V15 + V16 + V17 + V19 + V20 + V22 + V23 + V26 + V28 + V29 +
##
      V32 + V34 + V35 + V37 + V38 + V40 + V41 + V42 + V45 + V47 +
##
      V48 + V50 + V51 + V52 + V53 + V54 + V55 + V56 + V57 + V58 +
##
      V59 + V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70
##
##
##
                          Df Sum of Sq
                                             RSS
                                                     ATC
## - V9
                           1
                                  2774
                                         4852538 2991.3
## - V28
                           1
                                  4865
                                         4854629 2991.4
## - V41
                                  8450
                           1
                                         4858214 2991.6
## - V67
                           1
                                  9363
                                         4859127 2991.7
## - V56
                           1
                                 11085
                                         4860849 2991.8
## - V52
                           1
                                 12507
                                         4862271 2991.9
## - V4
                           1
                                 13253
                                         4863017 2991.9
## - V35
                           1
                                 14057
                                         4863821 2992.0
## - V12
                           1
                                 21932
                                         4871696 2992.5
## - V69
                           1
                                 23503
                                         4873267 2992.5
## - V57
                           1
                                 26749
                                         4876513 2992.7
## - V55
                           1
                                 28062
                                         4877826 2992.8
## - V10
                           1
                                 32708
                                         4882472 2993.1
## <none>
                                          4849764 2993.1
## - V19
                           1
                                 39787
                                         4889551 2993.5
## - V58
                           1
                                 40602
                                         4890366 2993.6
## - V16
                           1
                                 51017
                                         4900781 2994.2
## - V66
                           1
                                 54947
                                         4904711 2994.5
## - V62
                           1
                                 56851
                                         4906615 2994.6
## + V100
                           1
                                  7351
                                         4842413 2994.7
## + V86
                           1
                                  4693
                                         4845071 2994.8
                                  4562
## + V60
                           1
                                         4845202 2994.8
## + V31
                           1
                                  4019
                                         4845745 2994.9
                                  4011
## + V72
                           1
                                         4845753 2994.9
## - V29
                           1
                                 62077
                                         4911841 2994.9
```

## + V27	1	3481	4846283 2994.9	
## + V89	1	3076	4846688 2994.9	
## + V77	1	2877	4846887 2994.9	
## + V80	1	2850	4846914 2994.9	
## + V83	1	2290	4847474 2995.0	
## + V78	1	1902	4847862 2995.0	
## - V1	1	63861	4913625 2995.0	
## + V79	1	1866	4847898 2995.0	
## + V43	1	1567	4848197 2995.0	
## + V98	1	1481	4848283 2995.0	
## + V61	1	1332	4848432 2995.0	
## + V91	1	1308	4848456 2995.0	
## + V84	1	1276	4848488 2995.0	
## + V102	1	1238	4848526 2995.0	
## + V88	1	1191	4848573 2995.0	
## + V81	1	1154	4848610 2995.0	
## + V33	1	1151	4848613 2995.0	
## + V85	1	921	4848843 2995.1	
## + V49	1	907	4848857 2995.1	
## + V49 ## + V90	1	860	4848904 2995.1	
## + V96 ## + V76	1	795	4848969 2995.1	
## + V/0	1	65024	4914788 2995.1	
## - V50 ## + V44	1	684	4849080 2995.1	
## + V71	1	667 640	4849097 2995.1	
## + V36	1	649	4849115 2995.1	
## + V99	1	620	4849144 2995.1	
## + V94	1	501	4849263 2995.1	
## + V97	1	469	4849295 2995.1	
## + V87	1	415	4849349 2995.1	
## + V82	1	369	4849395 2995.1	
## + V39	1	357	4849406 2995.1	
## + V93	1	318		
## + V21	1	306	4849458 2995.1	
## + V24	1	299	4849465 2995.1	
## + V96	1	295	4849469 2995.1	
## + V73	1	252	4849512 2995.1	
## + V46	1	246	4849518 2995.1	
## + V95	1	223	4849541 2995.1	
## + V103	1	154	4849610 2995.1	
## + V74	1	126	4849638 2995.1	
## + V30	1	121	4849643 2995.1	
## + V25	1	88	4849676 2995.1	
## + V101	1	78	4849686 2995.1	
## + V18	1	71	4849693 2995.1	
## + V11	1	69	4849695 2995.1	
## + V14	1	65	4849698 2995.1	
## + V14	1	28	4849736 2995.1	
## + V/3 ## + V92	1	28 19	4849745 2995.1	
## - V20	1	66605	4916369 2995.2	
## - V45	1	67315	4917079 2995.2	
## - V40	1	70183	4919947 2995.4	
## - V65	1	70506	4920270 2995.4	
## - V22	1	73682	4923446 2995.6	
## - V68	1	77961	4927725 2995.8	
## - V54	1	80260	4930023 2996.0	
## - V37	1	81285	4931049 2996.0	
I				

```
## - V34
                                 82170
                           1
                                         4931934 2996.1
## - V26
                           1
                                 89270
                                         4939034 2996.5
## - V38
                           1
                                 98235
                                         4947998 2997.1
## - V42
                                 99680
                                         4949444 2997.2
                           1
## - `START QUARTER`
                                         4949981 2997.2
                           1
                                100217
## - V15
                           1
                                101183
                                         4950947 2997.2
## - V59
                           1
                                105072
                                         4954836 2997.5
## - V64
                           1
                                112319
                                         4962083 2997.9
## - V47
                                         4974988 2998.7
                           1
                                125224
## - V6
                           1
                             127154
                                         4976918 2998.8
## - V63
                           1
                                135610
                                         4985374 2999.3
## - `START YEAR`
                           1
                             141194
                                         4990958 2999.6
## - V2
                           1
                                142511
                                         4992275 2999.7
## - V5
                           1
                                162397
                                         5012161 3000.9
## - V53
                           1
                                164669
                                         5014433 3001.0
## - V17
                           1
                                167891
                                         5017655 3001.2
## - V48
                           1
                                216386
                                         5066150 3004.1
## - V51
                           1
                                221173
                                         5070937 3004.4
## - V23
                           1
                                226433
                                         5076196 3004.7
## - V3
                           1
                                267943
                                         5117707 3007.1
## - V32
                           1
                                320679
                                         5170443 3010.1
## - V70
                           1
                                331831
                                         5181595 3010.8
## - V13
                                390843
                                         5240607 3014.1
                           1
## - `COMPLETION QUARTER` 1
                                731129
                                         5580893 3032.8
## - `COMPLETION YEAR`
                           1 789247
                                         5639011 3035.9
## - V8
                           1 103573044 108422808 3913.9
##
## Step: AIC=2991.28
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
      V1 + V2 + V3 + V4 + V5 + V6 + V8 + V10 + V12 + V13 + V15 +
##
      V16 + V17 + V19 + V20 + V22 + V23 + V26 + V28 + V29 + V32 +
##
##
      V34 + V35 + V37 + V38 + V40 + V41 + V42 + V45 + V47 + V48 +
##
      V50 + V51 + V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 +
      V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70
##
##
##
                          Df Sum of Sq
                                             RSS
                                                    AIC
## - V28
                                         4855408 2989.5
                           1
                                  2869
## - V41
                           1
                                  8516
                                         4861054 2989.8
## - V56
                           1
                                  8745
                                         4861284 2989.8
## - V67
                           1
                                 10414
                                         4862952 2989.9
## - V52
                           1
                                 13043
                                         4865582 2990.1
## - V35
                           1
                                 13589
                                         4866127 2990.1
## - V4
                           1
                                 14339
                                         4866877 2990.2
## - V69
                           1
                                 22920
                                         4875458 2990.7
## - V57
                           1
                                 24000
                                         4876538 2990.7
## - V55
                           1
                                 27572
                                         4880110 2991.0
## - V10
                           1
                                 31338
                                         4883876 2991.2
## <none>
                                         4852538 2991.3
## - V12
                           1
                                 33884
                                         4886422 2991.3
## - V19
                           1
                                 38202
                                         4890740 2991.6
## - V58
                           1
                                 39617
                                         4892155 2991.7
## - V16
                           1
                                 48511
                                         4901050 2992.2
## - V66
                           1
                                 53155
                                         4905694 2992.5
## - V62
                           1
                                         4907157 2992.6
                                 54618
## + V100
                           1
                                  5815
                                         4846724 2992.9
## - V29
                           1
                                 60244
                                         4912782 2992.9
```

## + V27	1	3835	4848703 2993.0	ı
## + V43	1	3235	4849303 2993.1	
## + V86	1	3188	4849350 2993.1	
## - V50	1	62570	4915108 2993.1	
## + V60	1	3146	4849392 2993.1	
## + V31	1	3112	4849426 2993.1	
## + V77	1	2892	4849646 2993.1	
## + V72	1	2878	4849660 2993.1	
## + V9	1	2774	4849764 2993.1	
## + V80	1	2503	4850036 2993.1	
## + V93	1	2238	4850300 2993.1	
## + V91	1	2021	4850518 2993.2	
## + V78	1	1973	4850565 2993.2	
## - V20	1	63834	4916372 2993.2	
## + V82	1	1748	4850790 2993.2	
## + V102	1	1732	4850806 2993.2	
## + V49	1	1480	4851058 2993.2	
			4851130 2993.2 4851130 2993.2	
## + V89	1	1408		
## + V33	1	1319	4851220 2993.2	
## + V71	1	1301	4851237 2993.2	
## + V84	1	1295	4851243 2993.2	
## + V61	1	1278	4851260 2993.2	
## + V88	1	1265	4851273 2993.2	
## + V94	1	1259	4851280 2993.2	
## + V92	1	1214	4851324 2993.2	
## + V44	1	1146	4851393 2993.2	
## + V76	1	909	4851630 2993.2	
## + V96	1	896	4851643 2993.2	
## + V36	1	852	4851687 2993.2	
## + V97	1	737	4851801 2993.2	
## + V83	1	714	4851825 2993.2	,
## + V81	1	581	4851957 2993.2	
## + V79	1	515	4852024 2993.2	
## + V101	1	470	4852068 2993.3	
## + V18	1	445	4852093 2993.3	
## + V21	1	438	4852101 2993.3	
## + V21	1	410	4852128 2993.3	
## + V46	1	377	4852161 2993.3	
## + V46 ## + V11	1			
		327	4852212 2993.3	
## + V95	1	322	4852216 2993.3	
## + V73	1	320	4852218 2993.3	
## + V25	1	319	4852219 2993.3	
## + V98	1	298	4852240 2993.3	
## + V90	1	207	4852331 2993.3	
## + V103	1	179	4852359 2993.3	
## + V39	1	119	4852419 2993.3	
## + V85	1	95	4852444 2993.3	
## + V74	1	72	4852466 2993.3	
## + V24	1	29	4852509 2993.3	
## + V14	1	20	4852519 2993.3	
## + V99	1	18	4852520 2993.3	
## + V75	1	3	4852535 2993.3	
## + V30	1	3	4852535 2993.3	
## - V1	1	67524	4920062 2993.4	
## - V1	1	69862	4922400 2993.5	
## - V40	1	70442	4922981 2993.6	

```
## - V22
                                 71973
                                         4924512 2993.7
                           1
## - V45
                           1
                                 74133
                                         4926671 2993.8
## - V54
                           1
                                 77660
                                         4930199 2994.0
## - V68
                           1
                                 78645
                                         4931183 2994.1
## - V37
                                         4933767 2994.2
                           1
                                 81228
## - V34
                           1
                                 81238
                                         4933777 2994.2
## - V42
                           1
                                 97620
                                          4950158 2995.2
## - V38
                           1
                                 98047
                                         4950586 2995.2
## - V15
                                 98504
                                         4951043 2995.2
                           1
## - V26
                           1
                                100178
                                         4952717 2995.3
## - `START QUARTER`
                           1
                                110738
                                          4963277 2996.0
## - V59
                           1
                                115401
                                         4967939 2996.3
## - V64
                           1
                                122225
                                         4974764 2996.7
## - V47
                           1
                                122611
                                         4975149 2996.7
## - V6
                           1
                                124488
                                         4977026 2996.8
## - V63
                           1
                                133234
                                         4985772 2997.3
## - V2
                           1
                                140253
                                          4992791 2997.7
## - `START YEAR`
                           1
                                142181
                                         4994720 2997.9
## - V5
                           1
                                161505
                                          5014043 2999.0
## - V53
                           1
                                164243
                                          5016781 2999.2
## - V17
                                         5018951 2999.3
                           1
                                166413
## - V48
                           1
                                214342
                                          5066881 3002.1
## - V23
                                          5076278 3002.7
                           1
                                223739
## - V51
                           1
                                226516
                                         5079054 3002.8
## - V3
                                         5119053 3005.2
                           1
                                266514
## - V70
                                343009
                           1
                                         5195547 3009.6
## - V32
                                385289
                                         5237827 3012.0
                           1
## - V13
                                390478
                                         5243017 3012.3
                           1
## - `COMPLETION QUARTER` 1 736364
                                         5588903 3031.2
## - `COMPLETION YEAR`
                           1
                                805224
                                         5657762 3034.9
## - V8
                           1 103573147 108425686 3911.9
##
## Step: AIC=2989.46
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
       V1 + V2 + V3 + V4 + V5 + V6 + V8 + V10 + V12 + V13 + V15 +
##
       V16 + V17 + V19 + V20 + V22 + V23 + V26 + V29 + V32 + V34 +
      V35 + V37 + V38 + V40 + V41 + V42 + V45 + V47 + V48 + V50 +
##
##
       V51 + V52 + V53 + V54 + V55 + V56 + V57 + V58 + V59 + V62 +
##
      V63 + V64 + V65 + V66 + V67 + V68 + V69 + V70
##
                          Df Sum of Sq
##
                                              RSS
                                                     AIC
## - V56
                           1
                                  8558
                                          4863966 2988.0
## - V41
                           1
                                  9269
                                         4864677 2988.0
## - V67
                           1
                                  9432
                                          4864840 2988.0
## - V52
                           1
                                 11919
                                          4867327 2988.2
## - V35
                           1
                                 12364
                                          4867771 2988.2
## - V4
                           1
                                 13911
                                          4869319 2988.3
## - V69
                           1
                                 21363
                                          4876771 2988.8
## - V57
                           1
                                 23252
                                          4878660 2988.9
## - V12
                           1
                                 31154
                                          4886562 2989.4
## - V55
                           1
                                 31473
                                         4886881 2989.4
## <none>
                                          4855408 2989.5
## - V10
                           1
                                 35725
                                         4891133 2989.6
## - V58
                           1
                                 38780
                                         4894188 2989.8
## - V19
                           1
                                 39082
                                          4894490 2989.8
## - V16
                           1
                                 49282
                                         4904689 2990.5
```

## - V66	1	51095	4906503 2990.6	
## - V62	1	59789	4915197 2991.1	
## + V72	1	4807	4850600 2991.2	
## - V50	1	61488	4916896 2991.2	
## - V20	1	61822	4917230 2991.2	
## + V60	1	3759	4851649 2991.2	
## + V27	1	3736	4851672 2991.2	
## + V78	1	3582	4851826 2991.2	
## + V100	1	3228	4852180 2991.3	
## + V86	1	3101	4852307 2991.3	
## + V28	1	2869	4852538 2991.3	
## + V93	1	2504	4852904 2991.3	
## + V102	1	2348	4853060 2991.3	
## + V43	1	2100	4853300 2991.3	
## + V97	1	1691	4853717 2991.4	
## + V84	1	1649	4853758 2991.4	
## + V77	1	1631	4853777 2991.4	
## + V80	1	1324	4854084 2991.4	
## + V71	1	1312	4854096 2991.4	
## + V94	1	1299	4854109 2991.4	
## + V44	1	1260	4854148 2991.4	
## + V82	1	1192	4854216 2991.4	
## + V49	1	1154	4854254 2991.4	
## + V92	1	1017	4854391 2991.4	
## + V25	1	958	4854450 2991.4	
## + V88	1	929	4854479 2991.4	
## + V85	1	890	4854518 2991.4	
## + V9	1	779	4854629 2991.4	
## + V79	1	761	4854647 2991.4	
## + V46	1	661	4854746 2991.4	
## + V61	1	626	4854782 2991.4	
## + V83	1	556		
## + V90	1	472	4854936 2991.4	
## + V98	1	456	4854952 2991.4	
## + V73	1	385	4855023 2991.4	
## + V33	1	337	4855071 2991.4	
## + V39	1	288	4855120 2991.4	
## + V91	1	265	4855143 2991.4	
## + V95	1	232	4855176 2991.4	
## + V89	1	228	4855180 2991.4	
## + V96	1	223	4855184 2991.4	
## + V103	1	202	4855206 2991.4	
## + V31	1	179	4855228 2991.4	
## + V30	1	144	4855263 2991.4	
## + V101	1	98	4855310 2991.4	
## + V14	1	78	4855330 2991.5	
## + V21	1	67	4855341 2991.5	
## + V36	1	53	4855355 2991.5	
## + V24	1	43	4855364 2991.5	
## + V87	1	19	4855389 2991.5	
## + V11	1	16	4855391 2991.5	
## + V75	1	12	4855395 2991.5	
## + V18	1	8	4855400 2991.5	
## + V10 ## + V81	1		4855401 2991.5	
		7		
## + V76	1	5	4855403 2991.5	
## + V99	1	1	4855407 2991.5	

```
## + V74
                                         4855407 2991.5
                           1
                                     1
## - V1
                           1
                                 65987
                                         4921395 2991.5
## - V29
                           1
                                 66621
                                         4922029 2991.5
## - V40
                           1
                                 67976
                                         4923384 2991.6
## - V65
                                         4923575 2991.6
                           1
                                 68167
## - V45
                           1
                                 71354
                                         4926762 2991.8
## - V68
                           1
                                 75778
                                         4931185 2992.1
## - V54
                           1
                                 76725
                                         4932133 2992.1
## - V37
                                 78500
                                         4933908 2992.2
                           1
## - V22
                           1
                                 81969
                                         4937377 2992.4
## - V34
                           1
                                 82291
                                         4937699 2992.4
## - V38
                           1
                                 95672
                                         4951080 2993.3
## - V15
                           1
                                 96002
                                         4951409 2993.3
## - V26
                           1
                                 98766
                                         4954174 2993.4
## - V42
                                102650
                                         4958058 2993.7
                           1
## - `START QUARTER`
                           1
                                108031
                                         4963439 2994.0
## - V64
                           1
                                120535
                                         4975943 2994.7
## - V6
                           1
                                129083
                                         4984491 2995.2
## - V59
                           1
                                132702
                                         4988110 2995.5
## - V47
                           1
                                135136
                                         4990544 2995.6
## - V63
                           1
                                138492
                                         4993900 2995.8
## - `START YEAR`
                           1
                                140777
                                         4996185 2995.9
## - V2
                                         4996920 2996.0
                           1
                                141512
## - V5
                           1
                                162507
                                         5017914 2997.2
## - V17
                                         5022311 2997.5
                           1
                                166903
## - V53
                           1
                                179201
                                         5034609 2998.2
## - V48
                                218689
                           1
                                         5074097 3000.5
## - V23
                           1
                                227657
                                         5083064 3001.1
## - V51
                           1
                                230478
                                         5085886 3001.2
## - V3
                           1
                                         5122043 3003.3
                                266635
## - V70
                           1
                                372907
                                         5228315 3009.4
## - V32
                           1
                                386276
                                         5241684 3010.2
## - V13
                             388374
                                         5243782 3010.3
                           1
## - `COMPLETION QUARTER` 1
                                         5588971 3029.2
                                733563
## - `COMPLETION YEAR`
                         1 804367
                                         5659775 3033.0
## - V8
                           1 103666911 108522318 3910.2
##
## Step: AIC=2987.98
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
       V1 + V2 + V3 + V4 + V5 + V6 + V8 + V10 + V12 + V13 + V15 +
##
      V16 + V17 + V19 + V20 + V22 + V23 + V26 + V29 + V32 + V34 +
##
##
      V35 + V37 + V38 + V40 + V41 + V42 + V45 + V47 + V48 + V50 +
##
      V51 + V52 + V53 + V54 + V55 + V57 + V58 + V59 + V62 + V63 +
      V64 + V65 + V66 + V67 + V68 + V69 + V70
##
##
                          Df Sum of Sq
##
                                             RSS
                                                    AIC
## - V52
                           1
                                  8500
                                         4872466 2986.5
## - V41
                           1
                                         4872634 2986.5
                                  8668
## - V35
                           1
                                 12644
                                         4876610 2986.7
## - V4
                           1
                                 13215
                                         4877181 2986.8
## - V57
                           1
                                 18578
                                         4882544 2987.1
## - V67
                           1
                                 26397
                                         4890363 2987.6
## - V55
                           1
                                 29393
                                         4893359 2987.8
## - V69
                           1
                                 30224
                                         4894190 2987.8
## <none>
                                         4863966 2988.0
## - V58
                           1
                                 33889
                                         4897855 2988.0
```

## -	V19	1 3885	6 4902822	2 2988.3
## -	V16	1 4129	5 4905261	L 2988.5
## -	V10	1 4383	9 4907805	2988.6
## -	V12	1 4448	9 4908455	2988.7
## -	V62	1 5262	7 4916592	2989.2
## +	· V56	1 855		3 2989.5
	V20	1 5888		7 2989.6
	V72	1 692		3 2989.6
	· V27	1 679		3 2989.6
	· V60	1 555		7 2989.6
## -		1 6048		5 2989.6
	· V80	1 6048		
				3 2989.7
	V102	1 463		5 2989.7
	V100	1 421		1 2989.7
	· V78	1 407		5 2989.7
## +	· V83	1 395	2 4860014	1 2989.7
## +	· V46	1 308	1 4860885	2989.8
## +	· V75	1 293	3 4861033	3 2989.8
## +	· V28	1 268	2 4861284	1 2989.8
	V93	1 261		7 2989.8
	· V79	1 185		2989.9
	· V24	1 181		7 2989.9
	· V90	1 165		3 2989.9
	· V86	1 165		2 2989.9
	· V39	1 163		2989.9
## +	· V82	1 159	3 4862372	2989.9
## +	· V84	1 152	2 4862444	1 2989.9
## +	· V77	1 148	3 4862483	3 2989.9
## +	· V85	1 129	2 4862674	1 2989.9
## +		1 118		7 2989.9
	· V44	1 114		7 2989.9
	· V99	1 113		3 2989.9
	· V92	1 75		2989.9
	· V97	1 72		5 2989.9
	· V73	1 68		2989.9
## +	V101	1 68	2 4863284	1 2989.9
## +	· V98	1 63	5 4863331	1 2989.9
## +	V61	1 53	9 4863427	7 2989.9
	· V89	1 53		1 2989.9
	V81	1 53		5 2989.9
	· V33	1 48		2989.9 L 2989.9
	· V36	1 41		3 2990.0
	· V49	1 41		L 2990.0
	· V43	1 39		2990.0
## +	· V88	1 34	4 4863622	2990.0
## +	· V87	1 28	7 4863679	2990.0
## +	V14	1 27	5 4863691	L 2990.0
	· V94	1 21		3 2990.0
	V74	1 17		2990.0
	· V18	1 11		7 2990.0
	· V16	1 11		2990.0
	· V11	1 11		L 2990.0
	· V30	1 8		2 2990.0
## +	· V91	1 8		2990.0
## +	· V25	1 5	5 4863911	L 2990.0
## +	V103	1 5.	2 4863914	1 2990.0

```
## + V96
                           1
                                    46
                                         4863920 2990.0
## + V31
                           1
                                    20
                                         4863946 2990.0
## + V21
                           1
                                     3
                                         4863963 2990.0
## + V95
                           1
                                     2
                                         4863964 2990.0
## + V9
                                         4863966 2990.0
                           1
                                     0
## - V54
                           1
                                 68188
                                         4932154 2990.1
## - V45
                           1
                                 68886
                                         4932852 2990.2
## - V66
                           1
                                 71586
                                         4935552 2990.3
## - V34
                                 73938
                                         4937904 2990.5
                           1
## - V65
                           1
                                 76057
                                         4940023 2990.6
## - V29
                           1
                                 77378
                                         4941344 2990.7
## - V68
                           1
                                 77637
                                         4941603 2990.7
## - V22
                           1
                                 78405
                                         4942371 2990.7
## - V50
                           1
                                 81219
                                         4945185 2990.9
## - V37
                           1
                                 84676
                                         4948642 2991.1
## - V15
                           1
                                 87560
                                         4951526 2991.3
## - V38
                           1
                                 89637
                                         4953603 2991.4
## - V26
                           1
                                 93252
                                         4957218 2991.6
## - V40
                           1
                                 95133
                                         4959099 2991.7
## - `START QUARTER`
                           1
                             105431
                                         4969397 2992.3
## - V42
                                         4975415 2992.7
                           1
                                111449
## - V64
                           1
                                112543
                                         4976509 2992.8
## - V6
                           1
                                123422
                                         4987388 2993.4
## - V59
                           1
                                124147
                                         4988113 2993.5
## - V63
                                         5002563 2994.3
                           1
                                138597
## - V2
                           1
                                147292
                                         5011258 2994.8
## - `START YEAR`
                                149490
                           1
                                         5013456 2995.0
## - V5
                           1
                                155976
                                         5019942 2995.4
## - V47
                           1
                                         5022854 2995.5
                                158888
## - V53
                                         5040194 2996.5
                           1
                                176228
## - V17
                           1
                                179615
                                         5043581 2996.7
## - V48
                           1
                                214148
                                         5078114 2998.8
## - V23
                           1
                                222423
                                         5086389 2999.3
## - V51
                                         5086729 2999.3
                           1
                                222764
## - V3
                           1
                                274543
                                         5138509 3002.3
## - V70
                           1
                                366816
                                         5230782 3007.6
## - V13
                           1
                              380392
                                         5244358 3008.3
## - V32
                           1
                                422402
                                         5286368 3010.7
## - `COMPLETION QUARTER` 1 784327
                                         5648293 3030.4
## - `COMPLETION YEAR`
                                         5696630 3032.9
                           1
                                832664
## - V8
                           1 103777304 108641270 3908.5
##
## Step: AIC=2986.5
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
##
       V1 + V2 + V3 + V4 + V5 + V6 + V8 + V10 + V12 + V13 + V15 +
      V16 + V17 + V19 + V20 + V22 + V23 + V26 + V29 + V32 + V34 +
##
      V35 + V37 + V38 + V40 + V41 + V42 + V45 + V47 + V48 + V50 +
##
##
      V51 + V53 + V54 + V55 + V57 + V58 + V59 + V62 + V63 + V64 +
      V65 + V66 + V67 + V68 + V69 + V70
##
##
##
                          Df Sum of Sq
                                             RSS
                                                    AIC
## - V41
                           1
                                  7813
                                         4880280 2985.0
## - V4
                           1
                                 13475
                                         4885942 2985.3
## - V57
                           1
                                 15020
                                         4887486 2985.4
## - V35
                           1
                                 16985
                                         4889451 2985.5
## - V58
                           1
                                 26197
                                         4898663 2986.1
```

## - V67	1	32913	4905379 2986.5	
## <none></none>			4872466 2986.5	
## - V19	1	36659	4909125 2986.7	
## - V16	1	40821	4913287 2987.0	
## - V62	1	46863	4919330 2987.3	
## - V10	1	49584	4922051 2987.5	
## + V27	1	13108	4859358 2987.7	
## - V20	1	56754	4929220 2987.9	
## - V55	1	57321	4929787 2988.0	
## + V52	1	8500	4863966 2988.0	
## + V72	1		4864507 2988.0	
		7959 6470		
## + V88	1	6479	4865987 2988.1	
## + V84	1	5447	4867019 2988.2	
## + V46	1	5283	4867183 2988.2	
## + V43	1	5145	4867321 2988.2	
## + V56	1	5139	4867327 2988.2	
## + V102	1	4732	4867734 2988.2	
## - V54	1	61375	4933841 2988.2	
## + V78	1	3522	4868944 2988.3	
## + V60	1	3274	4869192 2988.3	
## + V80	1	3037	4869430 2988.3	
## + V77	1	2916	4869550 2988.3	
## + V82	1	2186	4870280 2988.4	
## + V93	1	2109	4870358 2988.4	
## + V28	1	1761	4870705 2988.4	
## + V49	1	1611	4870856 2988.4	
## + V87	1	1528	4870938 2988.4	
## + V74	1	1511	4870955 2988.4	
## + V61	1	1330	4871136 2988.4	
## + V75	1	1196	4871270 2988.4	
## + V90	1	1157	4871309 2988.4	
## + V30	1	1024	4871443 2988.4	
## + V101	1	983	4871483 2988.4	
			4871494 2988.4	
## + V11	1	972 865		
## + V44	1	865	4871602 2988.4	
## + V103	1	664 531	4871803 2988.5	
## + V100	1	521	4871946 2988.5	
## + V99	1	517	4871949 2988.5	
## + V21	1	477	4871990 2988.5	
## + V96	1	463	4872004 2988.5	
## + V33	1	454	4872013 2988.5	
## + V73	1	434	4872032 2988.5	
## + V85	1	386	4872080 2988.5	
## + V14	1	285	4872182 2988.5	
## + V25	1	251	4872216 2988.5	
## + V97	1	236	4872231 2988.5	
## + V95	1	207	4872259 2988.5	
## + V9	1	173	4872293 2988.5	
## + V31	1	156	4872311 2988.5	
## + V86	1	147	4872320 2988.5	
## + V18	1	111	4872356 2988.5	
## + V98	1	109	4872357 2988.5	
## + V39	1	103	4872359 2988.5	
## + V79	1	105 104	4872362 2988.5	
## + V71	1	104	4872362 2988.5	
## + V91	1	97	4872369 2988.5	

```
## + V83
                           1
                                     97
                                          4872369 2988.5
## + V76
                           1
                                     65
                                          4872402 2988.5
## + V24
                                     45
                           1
                                          4872421 2988.5
## + V94
                           1
                                     37
                                          4872430 2988.5
## + V89
                                          4872434 2988.5
                           1
                                     32
## + V36
                           1
                                     30
                                          4872437 2988.5
## + V92
                           1
                                     16
                                          4872450 2988.5
## + V81
                           1
                                      7
                                          4872460 2988.5
## - V34
                                  67455
                                          4939921 2988.6
                           1
## - V1
                           1
                                  69302
                                          4941769 2988.7
## - V12
                           1
                                  70834
                                          4943300 2988.8
## - V69
                           1
                                  72134
                                          4944601 2988.9
## - V45
                           1
                                  73659
                                          4946125 2989.0
## - V22
                           1
                                  77048
                                          4949514 2989.2
## - V65
                           1
                                  78460
                                          4950926 2989.2
## - V15
                           1
                                  80406
                                          4952873 2989.4
## - V38
                           1
                                  83123
                                          4955589 2989.5
## - V37
                           1
                                  83314
                                          4955781 2989.5
## - V66
                           1
                                  86388
                                          4958855 2989.7
## - V29
                           1
                                  89656
                                          4962123 2989.9
## - V50
                           1
                                  90760
                                          4963226 2990.0
## - V26
                           1
                                  93903
                                          4966369 2990.2
## - V40
                                  99954
                                          4972420 2990.5
                           1
## - V68
                           1
                                106586
                                          4979052 2990.9
## - `START QUARTER`
                           1
                                109994
                                          4982460 2991.1
## - V42
                           1
                                111389
                                          4983856 2991.2
## - V64
                           1
                                111612
                                          4984078 2991.2
## - V6
                           1
                                120568
                                          4993034 2991.8
## - V63
                           1
                                          5002617 2992.3
                                130151
## - V59
                           1
                                131658
                                          5004124 2992.4
## - V2
                                          5018567 2993.3
                           1
                                146100
## - `START YEAR`
                           1
                                150808
                                          5023275 2993.6
## - V47
                           1
                              151820
                                          5024286 2993.6
## - V5
                                159985
                                          5032451 2994.1
                           1
## - V17
                           1
                                191637
                                          5064103 2996.0
## - V53
                           1
                                208414
                                          5080880 2996.9
## - V23
                           1
                                215205
                                          5087672 2997.3
## - V48
                           1
                                218877
                                          5091344 2997.5
## - V51
                           1
                                246465
                                          5118931 2999.2
## - V3
                           1
                                274128
                                          5146595 3000.8
## - V70
                           1
                                361274
                                          5233740 3005.7
## - V13
                           1
                                372038
                                          5244505 3006.4
## - V32
                                          5364283 3013.1
                           1
                                491816
## - `COMPLETION QUARTER`
                           1
                                777918
                                          5650384 3028.5
## - `COMPLETION YEAR`
                           1
                                843152
                                          5715618 3031.9
## - V8
                           1 103784540 108657006 3906.6
##
## Step: AIC=2984.97
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
       V1 + V2 + V3 + V4 + V5 + V6 + V8 + V10 + V12 + V13 + V15 +
##
       V16 + V17 + V19 + V20 + V22 + V23 + V26 + V29 + V32 + V34 +
##
##
       V35 + V37 + V38 + V40 + V42 + V45 + V47 + V48 + V50 + V51 +
##
       V53 + V54 + V55 + V57 + V58 + V59 + V62 + V63 + V64 + V65 +
       V66 + V67 + V68 + V69 + V70
##
##
##
                          Df Sum of Sq
                                              RSS
                                                     AIC
```

## -	V4	1	13545	4893825 2983.8
## -	V57	1	15327	4895607 2983.9
## -	V35	1	19162	4899441 2984.1
## -	V58	1	23820	4904100 2984.4
	none>			4880280 2985.0
## -	V67	1	34243	4914522 2985.0
## -		1	34270	4914550 2985.1
## -		1	35044	4915324 2985.1
## -		1	45423	4925703 2985.7
## -		1	48665	4928945 2985.9
## +		1	14721	4865558 2986.1
## -		1	54023	4934303 2986.2
## -		1	54647	4934927 2986.3
## +		1	9334	4870945 2986.4
## +		1	8957	4871323 2986.4
## -	V20	1	57309	4937589 2986.4
## +	V77	1	8278	4872002 2986.5
## +	V41	1	7813	4872466 2986.5
## +	V52	1	7645	4872634 2986.5
## +		1	7197	4873082 2986.5
## +		1	6133	4874147 2986.6
## +		1	5619	4874661 2986.6
		1		
## +			5454	4874826 2986.6
## +		1	4843	4875437 2986.7
	V102	1	4663	4875616 2986.7
## +	V80	1	4131	4876148 2986.7
## +	V61	1	3907	4876373 2986.7
## +	V79	1	3203	4877077 2986.8
## +	V44	1	3070	4877209 2986.8
## +		1	3046	4877234 2986.8
## -		1	63133	4943413 2986.8
## +		1	2933	
		_		
## +		1	2845	4877435 2986.8
## +		1	2358	4877922 2986.8
## +		1	1835	4878445 2986.9
## +	V82	1	1806	4878474 2986.9
## +	V87	1	1712	4878568 2986.9
## +	V103	1	1343	4878936 2986.9
## +		1	1315	4878965 2986.9
## +		1	1221	4879059 2986.9
## +		1	1182	4879098 2986.9
	V101	1	1101	4879179 2986.9
## +		1	1015	4879265 2986.9
## +	V24	1	918	4879362 2986.9
## +	V91	1	893	4879387 2986.9
## +	V95	1	842	4879438 2986.9
## +	V94	1	741	4879539 2986.9
## +		1	690	4879590 2986.9
## +		1	600	4879680 2986.9
## +		1		4879756 2986.9
			524	
## +		1	523	4879756 2986.9
## +		1	496	4879783 2986.9
## +	V96	1	475	4879805 2986.9
## +	V25	1	272	4880008 2987.0
## +	V86	1	266	4880014 2987.0
## +	V85	1	229	4880051 2987.0

```
## + V39
                           1
                                   213
                                         4880067 2987.0
## + V18
                           1
                                   165
                                         4880115 2987.0
## + V9
                           1
                                   135
                                         4880145 2987.0
## + V92
                           1
                                         4880148 2987.0
                                   132
## + V31
                           1
                                    94
                                          4880185 2987.0
## + V36
                           1
                                    90
                                         4880190 2987.0
## + V14
                           1
                                    76
                                          4880204 2987.0
## + V97
                           1
                                         4880219 2987.0
                                    61
## + V100
                                          4880227 2987.0
                           1
                                    53
## + V89
                           1
                                    42
                                         4880238 2987.0
## + V81
                           1
                                    40
                                          4880240 2987.0
## + V76
                                    37
                           1
                                         4880243 2987.0
## + V83
                           1
                                     5
                                          4880275 2987.0
## + V99
                           1
                                     1
                                          4880279 2987.0
## - V45
                           1
                                 68821
                                          4949101 2987.1
## - V12
                           1
                                 71436
                                          4951716 2987.3
## - V65
                           1
                                 74375
                                          4954655 2987.5
## - V1
                           1
                                 74882
                                         4955162 2987.5
## - V69
                           1
                                 75761
                                          4956040 2987.5
## - V37
                           1
                                 75889
                                          4956169 2987.6
## - V38
                                 78599
                                          4958878 2987.7
                           1
## - V29
                           1
                                 83031
                                          4963311 2988.0
## - V26
                           1
                                         4966822 2988.2
                                 86543
## - V50
                           1
                                 86592
                                         4966872 2988.2
## - V15
                                          4967345 2988.2
                           1
                                 87065
## - V22
                           1
                                 90791
                                         4971071 2988.4
## - V66
                                 97318
                           1
                                         4977598 2988.8
## - `START QUARTER`
                           1
                                         4983484 2989.2
                                103204
## - V64
                           1
                                104208
                                         4984488 2989.2
## - V68
                                         4987044 2989.4
                           1
                                106764
## - V40
                                         4989247 2989.5
                           1
                                108967
## - V6
                           1
                                113179
                                         4993459 2989.8
## - V42
                           1
                              115370
                                         4995650 2989.9
## - V63
                           1
                                122410
                                         5002689 2990.3
## - V59
                           1
                                126505
                                         5006785 2990.6
## - V2
                           1
                                141076
                                          5021356 2991.4
## - V47
                           1
                                145722
                                         5026002 2991.7
## - `START YEAR`
                           1
                                146654
                                         5026934 2991.8
## - V5
                           1
                                155154
                                          5035434 2992.3
## - V17
                                          5065450 2994.0
                           1
                                185170
## - V53
                                         5080907 2994.9
                           1
                                200627
## - V48
                           1
                                211274
                                          5091554 2995.6
## - V23
                           1
                                220048
                                         5100328 2996.1
## - V51
                           1
                                239683
                                          5119963 2997.2
## - V3
                           1
                                266984
                                         5147264 2998.8
## - V70
                           1
                                357133
                                         5237413 3003.9
## - V13
                           1
                                365588
                                         5245868 3004.4
## - V32
                           1
                                488741
                                         5369021 3011.3
## - `COMPLETION QUARTER` 1
                                771083
                                         5651363 3026.5
## - `COMPLETION YEAR`
                           1
                                835863
                                         5716143 3029.9
## - V8
                           1 104219046 109099326 3905.8
##
## Step: AIC=2983.8
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
##
       V1 + V2 + V3 + V5 + V6 + V8 + V10 + V12 + V13 + V15 + V16 +
       V17 + V19 + V20 + V22 + V23 + V26 + V29 + V32 + V34 + V35 +
##
```

```
##
       V37 + V38 + V40 + V42 + V45 + V47 + V48 + V50 + V51 + V53 +
       V54 + V55 + V57 + V58 + V59 + V62 + V63 + V64 + V65 + V66 +
##
       V67 + V68 + V69 + V70
##
##
                           Df Sum of Sq
                                                RSS
                                                       AIC
##
## - V57
                            1
                                   17256
                                           4911081 2982.8
## - V35
                            1
                                   18569
                                           4912394 2982.9
## - V58
                            1
                                           4915613 2983.1
                                   21788
                                           4893825 2983.8
## <none>
## - V67
                            1
                                   36161
                                           4929986 2984.0
## - V16
                            1
                                   37593
                                           4931418 2984.1
## - V19
                                           4931943 2984.1
                            1
                                   38118
## - V10
                            1
                                   45360
                                           4939185 2984.5
## - V62
                            1
                                   47868
                                           4941693 2984.7
## - V55
                            1
                                   50183
                                           4944008 2984.8
## + V27
                            1
                                   13831
                                           4879994 2985.0
## + V4
                            1
                                   13545
                                           4880280 2985.0
## - V54
                            1
                                   53751
                                           4947576 2985.0
## + V77
                            1
                                   10831
                                           4882994 2985.1
## + V60
                            1
                                   10383
                                           4883442 2985.2
## + V43
                            1
                                    8272
                                           4885554 2985.3
## + V52
                            1
                                    7890
                                           4885936 2985.3
## + V41
                            1
                                           4885942 2985.3
                                    7883
## + V72
                            1
                                    7778
                                           4886047 2985.3
## + V84
                            1
                                    7636
                                           4886189 2985.3
## - V20
                            1
                                   60780
                                           4954605 2985.5
## + V61
                            1
                                    5398
                                           4888428 2985.5
## + V46
                            1
                                           4888704 2985.5
                                    5121
## + V88
                            1
                                           4888771 2985.5
                                    5054
## + V102
                            1
                                    4557
                                           4889268 2985.5
## - V1
                            1
                                   61823
                                           4955648 2985.5
## + V56
                            1
                                    4290
                                           4889535 2985.5
## + V80
                            1
                                    3979
                                           4889846 2985.6
## + V79
                            1
                                    3264
                                           4890561 2985.6
## + V90
                            1
                                    2441
                                           4891384 2985.6
## + V75
                            1
                                    2422
                                           4891403 2985.6
## + V44
                            1
                                    2351
                                           4891474 2985.7
## + V49
                            1
                                    2279
                                           4891546 2985.7
## + V78
                            1
                                           4891587 2985.7
                                    2238
## + V28
                            1
                                           4891850 2985.7
                                    1975
## + V103
                            1
                                    1695
                                           4892130 2985.7
## + V24
                            1
                                    1648
                                           4892177 2985.7
## + V82
                            1
                                    1580
                                           4892245 2985.7
## - V34
                            1
                                   64919
                                           4958744 2985.7
## + V87
                            1
                                    1164
                                           4892661 2985.7
## + V33
                            1
                                    1107
                                           4892718 2985.7
## + V95
                            1
                                    1082
                                           4892743 2985.7
## + V11
                            1
                                           4892807 2985.7
                                    1018
## + V30
                            1
                                     946
                                           4892879 2985.7
## + V101
                            1
                                     920
                                           4892906 2985.7
## + V71
                            1
                                     903
                                           4892922 2985.7
## + V73
                            1
                                           4893017 2985.7
                                     808
## + V18
                            1
                                     791
                                           4893034 2985.7
## + V96
                            1
                                     711
                                           4893114 2985.8
## + V21
                            1
                                     663
                                           4893163 2985.8
## + V93
                            1
                                     562
                                           4893264 2985.8
```

## + V86	1	553	4893272	2985.8
## + V9	1	508	4893317	2985.8
## + V36	1	481	4893345	2985.8
## + V98	1	447	4893379	2985.8
## + V85	1	399	4893426	2985.8
## + V76	1	331	4893494	2985.8
## + V94	1	325	4893500	2985.8
## + V14	1	319	4893506	2985.8
## + V91	1	265	4893560	2985.8
## + V74	1	254	4893571	2985.8
## + V92	1	204	4893621	
## + V89	1	170	4893655	
## + V83	1	100	4893725	2985.8
## + V31	1	97	4893729	
## + V81	1	69	4893756	
## + V100	1	32	4893793	
## + V25	1	21	4893804	
	1	18	4893807	
## + V39 ## + V97	1		4893814	
		12		
## + V99	1	6	4893820	
## - V12	1	66910	4960736	
## - V45	1	67084	4960910	
## - V65	1	72088	4965913	
## - V37	1	75120	4968945	2986.3
## - V69	1	76878	4970703	
## - V38	1	81091	4974916	
## - V29	1	82729	4976555	
## - V26	1	85076	4978901	2986.9
## - V50	1	88403	4982228	2987.1
## - V22	1	90848	4984673	2987.3
## - V15	1	91775	4985600	2987.3
## - V66	1	93504	4987329	2987.4
## - `START QUARTER`	1	101455	4995280	2987.9
## - V64	1	101723	4995548	2987.9
## - V68	1	103522	4997347	2988.0
## - V40	1	103797	4997622	2988.0
## - V6	1	106866	5000691	2988.2
## - V42	1	117258	5011083	2988.8
## - V63	1	117476	5011301	2988.8
## - V59	1	127117	5020942	2989.4
## - V47	1	143224	5037049	2990.4
## - `START YEAR`	1	147791	5041617	2990.6
## - V5	1		5042166	
## - V17	1	179123		
## - V53	1	197562		
## - V48	1		5101705	
## - V43	1	217991		
## - V51	1	248544		
## - V3	1		5179214	
## - V2	1		5201933	
## - V70	1	364920		
## - V13	1		5262318	
## - V32	1		5380391	
## - `COMPLETION QUARTER`			5665039	
## - `COMPLETION YEAR`			5718240	
## - V8	1	104361332	109255157	3904.2

```
##
## Step: AIC=2982.84
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
       V1 + V2 + V3 + V5 + V6 + V8 + V10 + V12 + V13 + V15 + V16 +
##
       V17 + V19 + V20 + V22 + V23 + V26 + V29 + V32 + V34 + V35 +
##
##
       V37 + V38 + V40 + V42 + V45 + V47 + V48 + V50 + V51 + V53 +
       V54 + V55 + V58 + V59 + V62 + V63 + V64 + V65 + V66 + V67 +
##
##
       V68 + V69 + V70
##
##
                           Df Sum of Sq
                                               RSS
                                                      AIC
## - V58
                            1
                                  15230
                                           4926311 2981.8
## - V35
                                           4930273 2982.0
                            1
                                  19192
## - V67
                            1
                                  22586
                                           4933667 2982.2
## - V19
                            1
                                  27023
                                           4938104 2982.5
## - V16
                            1
                                           4943241 2982.8
                                   32160
## <none>
                                           4911081 2982.8
## - V54
                            1
                                  45581
                                           4956662 2983.6
## + V27
                            1
                                  19605
                                           4891476 2983.7
## + V72
                            1
                                  18355
                                           4892726 2983.7
## + V57
                            1
                                  17256
                                           4893825 2983.8
## + V4
                            1
                                  15474
                                           4895607 2983.9
## - V34
                            1
                                  52127
                                           4963208 2984.0
## + V43
                            1
                                           4897494 2984.0
                                  13587
## + V84
                            1
                                  13478
                                           4897603 2984.0
## + V60
                                           4897815 2984.0
                            1
                                  13266
## - V10
                            1
                                  53646
                                           4964727 2984.1
## + V46
                            1
                                  11247
                                           4899834 2984.2
## + V33
                            1
                                           4900349 2984.2
                                  10733
## + V76
                            1
                                           4900372 2984.2
                                  10709
## + V102
                            1
                                  10437
                                           4900644 2984.2
## + V90
                            1
                                  10171
                                           4900910 2984.2
## - V20
                            1
                                  57294
                                           4968375 2984.3
## + V61
                            1
                                   8937
                                           4902144 2984.3
## + V88
                                           4902279 2984.3
                            1
                                   8802
## + V41
                            1
                                   8216
                                           4902865 2984.3
## + V49
                            1
                                   8075
                                           4903006 2984.4
## + V91
                            1
                                   5737
                                           4905344 2984.5
## - V62
                            1
                                  60899
                                           4971980 2984.5
## + V77
                            1
                                   5094
                                           4905987 2984.5
## + V73
                            1
                                   4397
                                           4906685 2984.6
## + V75
                            1
                                   4372
                                           4906709 2984.6
## + V52
                            1
                                   4288
                                           4906794 2984.6
## + V89
                            1
                                   3934
                                           4907147 2984.6
## - V1
                            1
                                   62864
                                           4973945 2984.6
## + V31
                            1
                                   3402
                                           4907679 2984.6
## + V95
                            1
                                   3346
                                           4907736 2984.6
## + V39
                            1
                                   3290
                                           4907792 2984.6
## + V87
                            1
                                   3117
                                           4907964 2984.7
## + V11
                            1
                                   2774
                                           4908307 2984.7
## + V71
                            1
                                    2639
                                           4908442 2984.7
## + V79
                            1
                                   2536
                                           4908546 2984.7
## + V14
                            1
                                           4908674 2984.7
                                   2407
## - V37
                            1
                                  64587
                                           4975668 2984.7
## + V36
                            1
                                   1947
                                           4909134 2984.7
## + V30
                            1
                                   1862
                                           4909219 2984.7
## + V81
                            1
                                   1800
                                           4909281 2984.7
```

## + V56	1	1722	4909359 29	984.7
## + V92	1	1659	4909422 29	984.7
## + V100	1	1651	4909430 29	984.7
## + V28	1	1642	4909439 29	984.7
## + V24	1	1563	4909518 29	984.7
## + V78	1	1462	4909619 29	984.8
## + V86	1	1441	4909640 29	984.8
## + V83	1	1364		
## + V44	1	1305	4909776 29	
## + V93	1	869		
## + V82	1	663		
## + V18	1	648	4910433 29	
## + V97	1	644	4910438 29	
## + V96	1	596		
## - V38	1	66003		
## + V74	1	577		
## + V94	1	379		
## + V99	1	316	4910765 29	
## + V21	1			
## + V21 ## + V101	1	201	4910880 29 4910882 29	
		199		
## + V9	1	185		
## + V80	1	144	4910937 29	
## + V85	1	97		
## + V103	1	64	4911017 29	
## + V25	1	10	4911071 29	
## + V98	1	8	4911073 29	
## - V12	1	67099		
## - V65	1	72657	4983739 29	
## - V22	1	76021		
## - V55	1	76232		
## - V45	1		4992077 29	
## - V15	1	86312	4997393 29	986.0
## - V69	1	88545	4999626 29	
## - V66	1	90299	5001380 29	986.3
## - V26	1		5008496 29	
## - V50	1		5011246 29	
## - V40	1	101423	5012504 29	986.9
## - V29	1	101756	5012837 29	986.9
## - V68	1	102148	5013229 29	987.0
## - V6	1	105030	5016112 29	987.1
## - V64	1	110974	5022055 29	987.5
## - V42	1		5022527 29	
## - `START QUARTER`	1	113791	5024873 29	987.6
## - V59	1	117077	5028159 29	987.8
## - `START YEAR`	1	135327	5046408 29	988.9
## - V47	1	137866	5048947 29	89.1
## - V63	1	146851	5057932 29	989.6
## - V5	1	148988	5060069 29	89.7
## - V17	1	202344	5113425 29	992.8
## - V53	1	206856	5117937 29	93.1
## - V23	1	207381	5118462 29	993.1
## - V51	1	231901	5142982 29	994.5
## - V48	1	261354	5172435 29	996.2
## - V3	1	286160	5197241 29	997.7
## - V2	1	308150	5219231 29	998.9
## - V13	1	354089	5265170 36	001.5

```
## - V70
                           1 354149
                                          5265230 3001.5
## - V32
                                 546457
                                          5457538 3012.2
                           1
## - `COMPLETION QUARTER`
                           1
                                793191
                                          5704272 3025.3
## - `COMPLETION YEAR`
                           1 825362
                                          5736443 3027.0
## - V8
                           1 104365411 109276492 3902.3
##
## Step: AIC=2981.76
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
       V1 + V2 + V3 + V5 + V6 + V8 + V10 + V12 + V13 + V15 + V16 +
       V17 + V19 + V20 + V22 + V23 + V26 + V29 + V32 + V34 + V35 +
##
       V37 + V38 + V40 + V42 + V45 + V47 + V48 + V50 + V51 + V53 +
##
       V54 + V55 + V59 + V62 + V63 + V64 + V65 + V66 + V67 + V68 +
##
##
       V69 + V70
##
##
                           Df Sum of Sq
                                              RSS
                                                     AIC
## - V19
                           1
                                  19401
                                          4945712 2980.9
## - V35
                           1
                                  22677
                                          4948988 2981.1
## - V67
                           1
                                  26335
                                          4952646 2981.3
## - V16
                           1
                                  27737
                                          4954048 2981.4
## <none>
                                          4926311 2981.8
## - V54
                           1
                                          4966321 2982.2
                                  40010
## + V33
                           1
                                  21712
                                          4904599 2982.4
## + V46
                           1
                                  21143
                                          4905168 2982.5
## + V90
                           1
                                  20786
                                          4905525 2982.5
## - V10
                                          4972389 2982.5
                           1
                                  46077
## + V102
                           1
                                  19468
                                          4906843 2982.6
## + V84
                           1
                                  16666
                                          4909646 2982.8
## - V34
                           1
                                  50135
                                          4976446 2982.8
## + V27
                           1
                                          4909885 2982.8
                                  16426
## - V62
                           1
                                  50439
                                          4976750 2982.8
## + V49
                           1
                                  15799
                                          4910512 2982.8
## + V58
                           1
                                  15230
                                          4911081 2982.8
## - V12
                           1
                                  52607
                                          4978918 2982.9
## - V20
                                  52999
                                          4979310 2982.9
                           1
## + V4
                           1
                                  13199
                                          4913112 2983.0
## + V88
                           1
                                  12917
                                          4913394 2983.0
## + V76
                           1
                                  12195
                                          4914116 2983.0
## + V43
                           1
                                  11579
                                          4914732 2983.1
## + V60
                           1
                                          4915196 2983.1
                                  11116
## + V57
                           1
                                  10698
                                          4915613 2983.1
## - V37
                           1
                                  56249
                                          4982560 2983.1
## + V39
                           1
                                  10045
                                          4916266 2983.2
## - V65
                           1
                                  57619
                                          4983930 2983.2
## + V72
                           1
                                   8222
                                          4918090 2983.3
## + V95
                           1
                                   7333
                                          4918978 2983.3
## + V41
                           1
                                   6106
                                          4920205 2983.4
## + V75
                           1
                                   5960
                                          4920351 2983.4
## - V55
                           1
                                          4987624 2983.4
                                  61313
## - V22
                           1
                                  61377
                                          4987689 2983.4
## - V1
                           1
                                  61953
                                          4988264 2983.5
## + V79
                           1
                                   4434
                                          4921877 2983.5
## + V73
                           1
                                   4205
                                          4922106 2983.5
## + V89
                           1
                                   3843
                                          4922468 2983.5
## + V11
                           1
                                   3528
                                          4922783 2983.5
## + V61
                           1
                                   3481
                                          4922830 2983.6
## + V91
                           1
                                   3185
                                          4923127 2983.6
```

## + V18	1	2669	4923642 2983.6
## + V71	1	2518	4923793 2983.6
## + V31	1	2400	4923911 2983.6
## + V96	1	2187	4924124 2983.6
## + V44	1	2134	4924178 2983.6
## + V30	1	1898	4924413 2983.6
## + V99	1	1885	4924427 2983.6
## + V94	1	1770	4924541 2983.7
## + V86	1	1708	4924603 2983.7
## + V28	1	1619	4924692 2983.7
## + V36	1	1493	4924818 2983.7
## + V101	1	1435	4924876 2983.7
## + V85	1	1401	4924910 2983.7
## + V93	1	1395	4924916 2983.7
## + V14	1	1373	4924938 2983.7
## + V77	1	1350	4924961 2983.7
## + V82	1	1316	4924995 2983.7
## + V56	1	1165	4925146 2983.7
## + V92	1	661	4925650 2983.7
## + V87	1	622	4925690 2983.7
## + V78	1	552	4925759 2983.7
## + V103	1	496	4925816 2983.7
## + V52	1	459	4925852 2983.7
## + V80	1	457	4925854 2983.7
## + V97	1	378	4925933 2983.7
## + V100	1	361	4925950 2983.7
## + V81	1	351	4925960 2983.7
## - V45	1	66575	4992887 2983.7
## + V9	1	128	4926184 2983.8
## + V83	1	107	4926204 2983.8
## + V24	1	91	4926220 2983.8
## + V74	1	71	4926241 2983.8
## + V21	1		4926245 2983.8
## + V98	1	20	4926291 2983.8
## + V25	1	2	4926310 2983.8
## - V38	1	71971	4998282 2984.1
## - V69	1		4999668 2984.2
## - V66	1		5001428 2984.3
## - V26	1	82299	5008611 2984.7
## - V40	1	86541	
## - V68	1	86960	5013271 2985.0
## - V29	1	90874	5017186 2985.2
## - V64	1		5022204 2985.5
## - V50	1	96902	
## - V15	1	97415	
## - `START QUARTER`		99086	
## - V42	1	108195	
## - V6	1	109913	
## - V59	1		5043945 2986.8
## - V63	1	134518	
## - V5	1	150553	
## - `START YEAR`	1	155452	
## - V47	1	171930	
## - V23	1	196728	
## - V53	1		5127570 2991.7
## - V17	1		5139277 2992.3
	_		

```
## - V51
                                 238159
                                          5164470 2993.8
                           1
## - V48
                                          5172482 2994.2
                           1
                                 246171
## - V3
                           1
                                 283611
                                          5209922 2996.4
## - V2
                                          5232618 2997.7
                           1
                                 306307
## - V13
                                 353521
                                          5279833 3000.3
                           1
## - V70
                           1
                                 385032
                                          5311343 3002.1
## - V32
                           1
                                 585902
                                          5512213 3013.1
## - `COMPLETION QUARTER` 1 782727
                                          5709038 3023.6
## - `COMPLETION YEAR`
                                 829213
                                          5755524 3026.0
                           1
## - V8
                           1 104416950 109343261 3900.4
##
## Step: AIC=2980.93
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
       V1 + V2 + V3 + V5 + V6 + V8 + V10 + V12 + V13 + V15 + V16 +
       V17 + V20 + V22 + V23 + V26 + V29 + V32 + V34 + V35 + V37 +
##
##
       V38 + V40 + V42 + V45 + V47 + V48 + V50 + V51 + V53 + V54 +
       V55 + V59 + V62 + V63 + V64 + V65 + V66 + V67 + V68 + V69 +
##
##
       V70
##
##
                          Df Sum of Sq
                                              RSS
                                                     AIC
## - V67
                                          4962878 2980.0
                           1
                                  17166
## - V16
                           1
                                  17814
                                          4963527 2980.0
## - V35
                           1
                                          4965068 2980.1
                                  19356
## - V54
                           1
                                  26490
                                          4972202 2980.5
## - V34
                                          4977471 2980.8
                           1
                                  31759
## <none>
                                          4945712 2980.9
## - V20
                                  33924
                           1
                                          4979636 2981.0
## + V27
                           1
                                  31207
                                          4914505 2981.0
## + V46
                           1
                                  29410
                                          4916303 2981.2
## - V37
                           1
                                          4987241 2981.4
                                  41529
## + V72
                           1
                                  24996
                                          4920716 2981.4
## - V65
                           1
                                  44658
                                          4990370 2981.6
## + V19
                           1
                                  19401
                                          4926311 2981.8
## + V39
                                          4927322 2981.8
                           1
                                  18391
## + V88
                           1
                                  17395
                                          4928318 2981.9
## - V22
                           1
                                  50669
                                          4996381 2982.0
## + V4
                                          4929739 2982.0
                           1
                                  15973
## + V90
                           1
                                  14120
                                          4931592 2982.1
## + V84
                           1
                                  12427
                                          4933285 2982.2
## + V43
                           1
                                  11950
                                          4933762 2982.2
## + V33
                                          4935303 2982.3
                           1
                                  10409
## + V89
                           1
                                  10020
                                          4935692 2982.3
## - V38
                           1
                                  57300
                                          5003012 2982.4
## + V49
                           1
                                   9184
                                          4936529 2982.4
## + V102
                           1
                                   9167
                                          4936545 2982.4
## + V75
                           1
                                   8513
                                          4937200 2982.4
## + V74
                           1
                                   7940
                                          4937772 2982.5
## - V69
                           1
                                  59071
                                          5004784 2982.5
## + V58
                           1
                                   7608
                                          4938104 2982.5
## + V86
                           1
                                   7187
                                          4938525 2982.5
## + V11
                           1
                                   7184
                                          4938528 2982.5
## + V80
                           1
                                   6657
                                          4939056 2982.5
## + V60
                           1
                                          4939799 2982.6
                                   5913
## + V73
                           1
                                   5725
                                          4939987 2982.6
## + V91
                           1
                                   5617
                                          4940095 2982.6
## + V61
                           1
                                   5181
                                          4940532 2982.6
```

## + V41	1	4762	4940950	2982.6
## + V57	1	4363	4941349	2982.7
## - V10	1	62976	5008688	2982.7
## + V99	1	3934	4941778	2982.7
## + V36	1	3823	4941889	2982.7
## - V45	1	63821	5009533	2982.7
## + V82	1	2789	4942923	2982.8
## + V94	1	2308	4943404	
## + V28	1	2218		
## - V1	1	64893	5010605	
## + V56	1	1977	4943735	
## + V79	1	1813	4943899	
## + V76	1	1718	4943994	
## + V77	1	1653	4944059	
## + V25	1	1598		
## + V30	1	1444	4944269	
## + V52	1	942	4944770	
## + V85	1	803	4944909	
## + V101	1	719	4944993	
## + V18	1	684	4945028	
## + V31	1	673		
## + V44	1 1	602	4945110	
## + V78		535	4945177	
## + V81	1	507	4945205	
## + V100	1 1	388	4945324	
## + V71		301	4945412	
## + V14 ## + V83	1 1	235 232	4945477 4945480	
## + V9	1	193	4945519	
## + V97	1	176		
## + V87	1	174	4945538	
## + V92	1	144	4945568	
## - V62	1		5012669	
## + V98	1		4945641	
## + V24	1	49		
## + V103	1		4945683	
## + V95	1		4945706	
## + V93	1	1		
## + V21	1		4945712	
## + V96	1		4945712	
## - V68	1	68493		
## - V26	1		5021113	
## - V66	1		5023728	
## - V50	1		5024375	
## - V12	1		5027156	
## - V64	1		5033139	
## - `START QUARTER`	1		5037234	
## - V42	1	91780	5037492	2984.4
## - V29	1	92876	5038588	2984.5
## - V15	1	96388	5042100	2984.7
## - V59	1	99752	5045464	2984.9
## - V55	1	100938	5046650	2984.9
## - V40	1	108002	5053714	2985.3
## - V6	1	119793	5065506	2986.0
## - `START YEAR`	1	136264	5081976	2987.0
## - V63	1	149805	5095518	2987.8
I				

```
## - V47
                           1
                                156787
                                         5102499 2988.2
## - V5
                           1
                                         5110170 2988.6
                                164458
## - V17
                           1
                                194543
                                         5140256 2990.4
## - V53
                                196457
                                         5142169 2990.5
                           1
## - V23
                                         5151374 2991.0
                           1
                                205662
## - V51
                           1
                                221980
                                         5167692 2992.0
## - V48
                           1
                                230709
                                         5176422 2992.5
## - V3
                           1
                                273616
                                         5219328 2994.9
## - V2
                                296933
                                         5242645 2996.2
                           1
## - V13
                           1 340008
                                         5285720 2998.7
## - V70
                           1
                                370423
                                         5316136 3000.4
## - V32
                           1
                                572789
                                         5518501 3011.5
## - `COMPLETION QUARTER` 1
                                779642
                                         5725355 3022.4
## - `COMPLETION YEAR`
                         1 810736
                                         5756448 3024.0
## - V8
                           1 104872928 109818640 3899.7
##
## Step: AIC=2979.96
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
##
       V1 + V2 + V3 + V5 + V6 + V8 + V10 + V12 + V13 + V15 + V16 +
##
       V17 + V20 + V22 + V23 + V26 + V29 + V32 + V34 + V35 + V37 +
      V38 + V40 + V42 + V45 + V47 + V48 + V50 + V51 + V53 + V54 +
##
      V55 + V59 + V62 + V63 + V64 + V65 + V66 + V68 + V69 + V70
##
##
##
                          Df Sum of Sq
                                              RSS
                                                     AIC
## - V35
                                  9674
                                         4972552 2978.5
                           1
                                 12907
                                         4975785 2978.7
## - V16
                           1
## - V54
                           1
                                 19594
                                         4982472 2979.1
## - V34
                           1
                                 24076
                                         4986954 2979.4
## + V46
                           1
                                         4926053 2979.7
                                 36825
## - V37
                           1
                                 30037
                                         4992915 2979.8
## <none>
                                          4962878 2980.0
## - V65
                           1
                                 35170
                                         4998047 2980.1
## - V22
                           1
                                 37445
                                         5000323 2980.2
## + V27
                                         4933991 2980.2
                           1
                                 28887
## - V69
                           1
                                 43762
                                          5006640 2980.6
## + V72
                           1
                                 21643
                                          4941235 2980.7
## + V88
                                         4941379 2980.7
                           1
                                 21499
## + V102
                           1
                                 21225
                                          4941653 2980.7
## - V38
                           1
                                 46551
                                          5009429 2980.7
## - V45
                           1
                                 47690
                                          5010568 2980.8
## + V49
                                          4944163 2980.8
                           1
                                 18715
## - V20
                           1
                                 48848
                                          5011726 2980.9
## + V67
                           1
                                 17166
                                         4945712 2980.9
## + V75
                           1
                                 15672
                                          4947206 2981.0
## + V4
                           1
                                 15640
                                          4947238 2981.0
## - V68
                           1
                                 51481
                                          5014359 2981.0
## + V91
                           1
                                 15415
                                          4947463 2981.0
## + V11
                           1
                                 13539
                                          4949339 2981.1
## + V56
                           1
                                 11458
                                          4951420 2981.3
## + V58
                           1
                                 11284
                                          4951594 2981.3
## + V39
                           1
                                 10420
                                         4952458 2981.3
## + V19
                           1
                                 10232
                                          4952646 2981.3
## + V73
                           1
                                  9769
                                         4953109 2981.4
## - V1
                           1
                                 58495
                                         5021373 2981.4
## - V26
                           1
                                 59338
                                         5022216 2981.5
## + V60
                           1
                                  7571
                                         4955306 2981.5
```

## + V33	1	7403	4955475 2981.5	
## + V85	1	6398	4956480 2981.6	
## + V86	1	5824	4957054 2981.6	
## + V41	1	5618	4957260 2981.6	
## - V66	1	61897	5024775 2981.6	
## + V94	1	5212	4957666 2981.6	
## + V101	1	5077	4957800 2981.7	
## + V97	1		4958226 2981.7	
## + V83	1	4634		
## + V74	1		4958709 2981.7	
## + V84	1		4958712 2981.7	
## + V96	1	3914	4958964 2981.7	
## + V82	1	3691		
## + V77	1		4959582 2981.8	
## + V90	1		4959591 2981.8	
## + V52	1	3220		
## + V92	1		4959930 2981.8	
## + V93	1		4960254 2981.8	
## + V50	1	64871		
## + V18				
	1	2244		
## + V103	1		4960771 2981.8	
## + V80	1	1849	4961029 2981.8	
## + V61	1	1711		
## + V24	1	1699	4961179 2981.9	
## + V79	1	1496	4961382 2981.9	
## + V100	1	1275		
## + V43	1	911		
## + V78	1	804		
## + V30	1	753		
## + V28	1	639		
## + V31	1	492		
## + V87	1	373		
## + V44	1		4962531 2981.9	
## + V76	1		4962596 2981.9	
## + V99	1		4962605 2981.9	
## + V57	1		4962653 2981.9	
## + V89	1		4962670 2981.9	
## + V81	1		4962673 2981.9	
## + V36	1	179		
## + V21	1	150		
## + V14	1		4962729 2981.9	
## + V71	1	56	4962822 2982.0	
## + V25	1	33	4962845 2982.0	
## + V9	1	15	4962863 2982.0	
## + V95	1	11	4962867 2982.0	
## + V98	1	8	4962869 2982.0	
## - V10	1	69766	5032643 2982.1	
## - V64	1	71431	5034309 2982.2	
## - `START QUARTER`	1	74363	5037241 2982.4	
## - V12	1	75424	5038302 2982.4	
## - V15	1	79566	5042444 2982.7	
## - V42	1	83327	5046205 2982.9	
## - V59	1	88249	5051127 2983.2	
## - V29	1	89980	5052858 2983.3	
## - V40	1	98355	5061233 2983.8	
## - V6	1	116558	5079436 2984.9	
I				

```
## - `START YEAR`
                           1 119924
                                          5082802 2985.0
## - V47
                           1
                                          5103339 2986.2
                                140461
## - V55
                           1
                                142548
                                          5105426 2986.4
## - V5
                                157055
                                          5119933 2987.2
                           1
## - V62
                                162998
                                          5125876 2987.6
                           1
## - V23
                           1
                                188591
                                          5151469 2989.0
## - V17
                           1
                                192569
                                          5155447 2989.3
## - V63
                           1
                                          5158298 2989.4
                                195420
## - V51
                                          5168453 2990.0
                           1
                                205575
## - V3
                           1
                                268997
                                          5231875 2993.6
## - V53
                           1
                                284430
                                          5247308 2994.5
## - V2
                           1
                                290992
                                          5253870 2994.9
## - V13
                           1
                                324842
                                          5287720 2996.8
## - V48
                           1
                                331748
                                          5294626 2997.2
## - V70
                                 356001
                                          5318879 2998.5
                           1
## - V32
                           1
                                557795
                                          5520673 3009.6
## - `COMPLETION QUARTER`
                           1
                                763238
                                          5726115 3020.4
## - `COMPLETION YEAR`
                           1
                                795641
                                          5758519 3022.1
## - V8
                           1 104926850 109889728 3897.9
##
## Step: AIC=2978.54
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
       V1 + V2 + V3 + V5 + V6 + V8 + V10 + V12 + V13 + V15 + V16 +
##
##
       V17 + V20 + V22 + V23 + V26 + V29 + V32 + V34 + V37 + V38 +
      V40 + V42 + V45 + V47 + V48 + V50 + V51 + V53 + V54 + V55 +
##
      V59 + V62 + V63 + V64 + V65 + V66 + V68 + V69 + V70
##
##
##
                          Df Sum of Sq
                                              RSS
                                                     AIC
## - V16
                           1
                                  15309
                                          4987861 2977.4
## - V54
                           1
                                  17122
                                          4989674 2977.6
## - V34
                                          4993967 2977.8
                           1
                                 21415
## + V46
                           1
                                 42501
                                          4930051 2978.0
## - V65
                           1
                                  25731
                                          4998283 2978.1
## - V37
                                          4999449 2978.1
                           1
                                  26897
## + V27
                           1
                                  37665
                                          4934887 2978.3
## - V22
                           1
                                  31739
                                          5004291 2978.4
## <none>
                                          4972552 2978.5
## - V69
                           1
                                  35461
                                          5008013 2978.6
## + V72
                           1
                                  30446
                                          4942106 2978.7
## - V38
                           1
                                  40231
                                          5012783 2978.9
## - V45
                                          5012935 2978.9
                           1
                                  40382
## + V88
                           1
                                  25792
                                          4946761 2979.0
## - V68
                           1
                                  42208
                                          5014760 2979.0
## + V39
                           1
                                  18160
                                          4954392 2979.4
## - V26
                           1
                                  49846
                                          5022398 2979.5
## + V4
                           1
                                  14889
                                          4957664 2979.6
## + V33
                           1
                                  14152
                                          4958400 2979.7
## + V102
                           1
                                  14009
                                          4958544 2979.7
## - V66
                           1
                                  53759
                                          5026311 2979.7
## + V75
                           1
                                  13203
                                          4959349 2979.7
## + V58
                           1
                                  12490
                                          4960062 2979.8
## + V11
                           1
                                          4960170 2979.8
                                  12383
## - V50
                           1
                                  56471
                                          5029023 2979.9
## + V91
                           1
                                  10780
                                          4961772 2979.9
## - V20
                           1
                                  56716
                                          5029268 2979.9
## + V19
                           1
                                  10427
                                          4962125 2979.9
```

	## + V49	1	9721	4962831 2980.	0
	## + V35	1	9674	4962878 2980.	0
	## - V1	1	58553	5031105 2980.	0
	## + V60	1	8005	4964547 2980.	1
	## + V84	1	7953	4964599 2980.	1
	## + V67	1	7484		
	## + V61	1	7468		
	## + V41	1	6680		
	## + V56	1	6570		
	## + V77	1	5118		
	## + V// ## - V64	1			
		1	62532		
	## + V18		4804		
	## + V80	1	4725		
	## + V25	1	4653		
	## + V90	1	4641		_
	## + V74	1	3821		
	## + V52	1	3771	4968781 2980.	. 3
	## + V101	1	3694	4968858 2980.	3
	## + V85	1	3298	4969254 2980.	3
	## + V89	1	3055	4969497 2980.	4
	## + V43	1	2732	4969820 2980.	4
	## + V 79	1	2652	4969900 2980.	4
	## + V94	1	2637	4969915 2980.	4
	## + V 73	1	2256	4970296 2980.	4
	## - V10	1	65206	5037758 2980.	4
	## + V103	1	2012		
	## + V99	1	1967	4970585 2980.	4
	## + V83	1	1710		
	## - `START QUARTER`		66124		
	## + V78	1	1240		
	## + V97	1	1162		
	## + V57	1	908		
	## + V44	1	887		
	## + V82				
		1	860		
	## + V96	1	794	4971758 2980.	
	## + V24	1	685	4971867 2980.	
	## + V21	1	553		
	## + V95	1	485		
	## + V76	1	439		
	## + V31	1	424	4972128 2980.	.5
	## + V93	1	420	4972132 2980.	5
	## + V71	1	366	4972187 2980.	5
	## + V92	1	346	4972206 2980.	5
	## + V28	1	309	4972244 2980.	.5
	## + V86	1	296	4972256 2980.	5
	## + V100	1	282	4972270 2980.	5
	## + V30	1	156	4972396 2980.	5
	## + V87	1	132		5
	## + V14	1	30		5
	## + V98	1	19		
	## + V81	1	3	4972550 2980.	
	## + V36	1	1		
	## + V9	1	1	4972551 2980.	
	## - V15 ## - V42	1	70769 76161		
	## - V42	1	76161		
	## - V59	1	78605	5051157 2981.	2
- 4					

```
## - V29
                                         5059419 2981.7
                           1
                                 86867
## - V12
                           1
                                 88773
                                         5061325 2981.8
## - V40
                           1
                                 96419
                                         5068971 2982.2
## - `START YEAR`
                           1
                                         5082970 2983.1
                                110418
## - V6
                           1
                                113501
                                         5086054 2983.2
## - V47
                           1
                                131241
                                         5103793 2984.3
## - V55
                           1
                                134080
                                         5106632 2984.4
## - V5
                           1
                                155040
                                         5127592 2985.7
## - V62
                                155458
                                         5128010 2985.7
                           1
## - V23
                           1
                                180566
                                         5153118 2987.1
## - V17
                           1
                                185069
                                         5157621 2987.4
## - V63
                           1
                                200178
                                         5172730 2988.3
## - V51
                           1
                                200430
                                         5172982 2988.3
## - V3
                           1
                                270289
                                         5242841 2992.3
## - V53
                           1
                                275773
                                         5248325 2992.6
## - V2
                           1
                                294110
                                         5266663 2993.6
## - V13
                           1
                                318799
                                         5291351 2995.0
## - V48
                           1
                                322462
                                         5295014 2995.2
## - V70
                           1
                                353695
                                         5326247 2996.9
## - V32
                           1
                             573333
                                         5545885 3008.9
## - `COMPLETION QUARTER` 1
                                765955
                                         5738507 3019.1
## - `COMPLETION YEAR`
                         1 789242
                                         5761794 3020.3
## - V8
                           1 105185155 110157707 3896.6
##
## Step: AIC=2977.45
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
      V1 + V2 + V3 + V5 + V6 + V8 + V10 + V12 + V13 + V15 + V17 +
##
      V20 + V22 + V23 + V26 + V29 + V32 + V34 + V37 + V38 + V40 +
##
      V42 + V45 + V47 + V48 + V50 + V51 + V53 + V54 + V55 + V59 +
##
##
      V62 + V63 + V64 + V65 + V66 + V68 + V69 + V70
##
##
                          Df Sum of Sq
                                             RSS
                                                    AIC
## - V54
                           1
                                 6791
                                         4994652 2975.9
## - V34
                                 11094
                                         4998955 2976.1
                           1
## - V37
                           1
                                 18654
                                         5006515 2976.6
## - V65
                           1
                                 19756
                                         5007617 2976.6
## - V22
                           1
                                 23242
                                         5011103 2976.8
## + V27
                           1
                                 42844
                                         4945017 2976.9
## - V68
                           1
                                 30809
                                         5018670 2977.3
## - V45
                           1
                                 32095
                                         5019955 2977.4
## + V46
                           1
                                 33715
                                         4954146 2977.4
## <none>
                                         4987861 2977.4
## - V38
                           1
                                 35062
                                         5022923 2977.5
## - V26
                           1
                                 35926
                                         5023787 2977.6
## - V69
                           1
                                 38142
                                         5026002 2977.7
## + V88
                           1
                                 28095
                                         4959765 2977.8
## + V11
                           1
                                 27076
                                         4960785 2977.8
## - V20
                           1
                                         5033624 2978.2
                                 45763
## + V72
                           1
                                 20149
                                         4967712 2978.2
## - V64
                                         5036917 2978.4
                           1
                                 49056
## + V90
                           1
                                 17946
                                         4969915 2978.4
## + V33
                           1
                                 17741
                                         4970120 2978.4
## + V61
                           1
                                 17632
                                         4970229 2978.4
## + V39
                           1
                                 17261
                                         4970600 2978.4
## + V4
                           1
                                 15890
                                         4971971 2978.5
## + V16
                           1
                                 15309
                                         4972552 2978.5
```

## - `START QUARTER`	1	53897	5041758 2978.6
## + V77	1	12981	4974880 2978.7
## + V35	1	12075	4975785 2978.7
## + V58	1	10658	4977202 2978.8
## - V1	1	57603	5045463 2978.9
## + V75	1	8140	4979721 2979.0
## + V93	1	7743	4980118 2979.0
## + V92	1	7669	4980192 2979.0
## + V84	1	7534	4980327 2979.0
## + V43	1	7170	4980691 2979.0
## + V102	1	6809	4981052 2979.0
## + V18	1	6778	4981083 2979.0
## + V49	1	6025	4981835 2979.1
## + V19	1	5013	4982848 2979.2
## + V82	1	4689	4983172 2979.2
## + V91	1	4164	4983697 2979.2
## - V10	1	63470	5051330 2979.2
## + V36	1	4077	4983784 2979.2
## + V96	1	4045	4983815 2979.2
## + V60	1	4041	4983819 2979.2
## + V52	1	3916	4983945 2979.2
## + V67	1	3827	4984033 2979.2
## + V89	1	3162	4984698 2979.3
## + V41	1	2955	4984906 2979.3
## - V15	1	64659	5052520 2979.3
## + V103	1	2887	4984973 2979.3
## + V95	1	2562	4985299 2979.3
## + V74	1	2186	
## + V71	1	1923	4985937 2979.3
## + V76	1	1840	4986021 2979.3
## + V30	1	1823	4986038 2979.3
## + V99	1	1726	4986134 2979.3
## + V80	1	1584	
## + V57	1	1296	4986565 2979.4
## + V25	1	1016	4986845 2979.4
## + V94	1	1007	4986854 2979.4
## + V85	1	988	4986872 2979.4
## + V56	1	970	4986890 2979.4
## - V59	1	66667	5054527 2979.4
## + V98	1	839	4987022 2979.4
## - V50	1	66781	5054642 2979.4
## + V100	1	765	4987096 2979.4
## + V79	1	702	4987159 2979.4
## + V14	1	660	4987201 2979.4
## + V28	1	462	4987398 2979.4
## + V78	1	451	4987410 2979.4
## + V21	1	446	4987415 2979.4
## + V81	1	414	4987447 2979.4
## + V44	1	368	4987493 2979.4
## + V101	1	287	4987574 2979.4
## + V86	1	183	4987678 2979.4
## + V73	1	149	4987712 2979.4
## + V97	1	88	4987772 2979.4
## + V83	1	73	4987787 2979.4
## + V9	1	31	4987830 2979.4
## + V87	1	27	
	_		· - • •

```
## + V31
                                          4987846 2979.4
                           1
                                    14
## + V24
                                          4987855 2979.4
                           1
                                     6
## - V42
                           1
                                  67971
                                          5055831 2979.5
## - V29
                           1
                                 75018
                                          5062879 2979.9
                                 75360
## - V66
                           1
                                          5063221 2979.9
## - `START YEAR`
                           1
                                 95270
                                          5083130 2981.1
## - V40
                           1
                                 99853
                                          5087714 2981.3
## - V6
                           1
                                          5093396 2981.7
                                105535
## - V12
                                          5107109 2982.5
                           1
                                119248
## - V47
                           1
                                137669
                                          5125530 2983.5
## - V5
                           1
                                145930
                                          5133791 2984.0
## - V55
                           1
                                151290
                                          5139150 2984.3
## - V62
                           1
                                166516
                                          5154377 2985.2
## - V23
                           1
                                177763
                                          5165624 2985.8
## - V51
                           1
                                 185194
                                          5173054 2986.3
## - V63
                           1
                                185863
                                          5173724 2986.3
## - V17
                           1
                                 201850
                                          5189710 2987.2
## - V3
                           1
                                270331
                                          5258192 2991.1
## - V53
                           1
                                288924
                                          5276785 2992.2
## - V2
                           1
                                294175
                                          5282035 2992.5
## - V48
                                          5295921 2993.2
                           1
                                308060
## - V13
                           1
                                309191
                                          5297052 2993.3
## - V70
                           1
                                339012
                                          5326873 2995.0
## - V32
                           1
                                558212
                                          5546072 3007.0
## - `COMPLETION QUARTER`
                                          5744061 3017.4
                           1
                                756201
## - `COMPLETION YEAR`
                           1
                                784629
                                          5772490 3018.8
## - V8
                           1 106331125 111318986 3897.8
##
## Step: AIC=2975.85
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
      V1 + V2 + V3 + V5 + V6 + V8 + V10 + V12 + V13 + V15 + V17 +
##
##
       V20 + V22 + V23 + V26 + V29 + V32 + V34 + V37 + V38 + V40 +
##
      V42 + V45 + V47 + V48 + V50 + V51 + V53 + V55 + V59 + V62 +
      V63 + V64 + V65 + V66 + V68 + V69 + V70
##
##
##
                          Df Sum of Sq
                                              RSS
                                                     AIC
## - V34
                                  5175
                                          4999827 2974.2
                           1
## - V37
                           1
                                  13586
                                          5008238 2974.7
## - V65
                           1
                                  16549
                                          5011201 2974.8
## + V27
                           1
                                  49581
                                          4945071 2974.9
## - V22
                           1
                                  18239
                                          5012891 2974.9
## - V68
                           1
                                  25240
                                          5019892 2975.4
## + V46
                           1
                                  39750
                                          4954902 2975.5
## - V45
                           1
                                  29842
                                          5024494 2975.6
## - V26
                           1
                                  32055
                                          5026707 2975.8
## <none>
                                          4994652 2975.9
## - V69
                           1
                                  37234
                                          5031886 2976.1
## - V64
                           1
                                 42266
                                          5036918 2976.4
## - V38
                           1
                                  43067
                                          5037719 2976.4
## + V72
                                          4971277 2976.5
                           1
                                  23375
## + V88
                           1
                                  23372
                                          4971280 2976.5
## + V33
                           1
                                          4972342 2976.5
                                  22310
## + V11
                           1
                                  22063
                                          4972589 2976.5
## - V20
                           1
                                  46854
                                          5041506 2976.6
## + V61
                           1
                                  20588
                                          4974064 2976.6
## - `START QUARTER`
                           1
                                  48377
                                          5043028 2976.7
```

## +	V39	1	19008	4975644 2976.7	
## +	V90	1	14582	4980070 2977.0	
## +		1	14406	4980246 2977.0	
## +		1	10657	4983995 2977.2	
## +		1	9809	4984843 2977.3	
## +		1	9738	4984914 2977.3	
## +		1	9402	4985250 2977.3	
## +		1	9042	4985610 2977.3	
## -		1	59115	5053767 2977.3	
## -		1	59397	5054049 2977.4	
## +		1	7982	4986670 2977.4	
## +		1	7982 7648	4987004 2977.4	
## +		1	7019 6701	4987633 2977.4	
## +		1	6791	4987861 2977.4	
## +		1	6686	4987966 2977.5	
## +		1	6563	4988089 2977.5	
## +		1	6516	4988136 2977.5	
## -	V42	1	61258	5055910 2977.5	
## -	V50	1	61417	5056069 2977.5	
## +	V92	1	5828	4988824 2977.5	
## +	V91	1	5053	4989599 2977.6	
## +	V16	1	4978	4989674 2977.6	
## +	V99	1	4864	4989788 2977.6	
## +	V82	1	4467	4990185 2977.6	
	V102	1	3532	4991120 2977.6	
## +		1	3163	4991489 2977.7	
## -		1	64659	5059311 2977.7	
## +		1	2884	4991768 2977.7	
## +		1	2849	4991803 2977.7	
## +		1	2772	4991880 2977.7	
## +		1	2772	4991916 2977.7	
## +		1	2736 2529		
## +		1	2413	4992239 2977.7	
## +		1	2119	4992533 2977.7	
## -		1	65626	5060278 2977.7	
## +		1	2042	4992610 2977.7	
## +		1	1823	4992829 2977.7	
## +	V41	1	1692	4992960 2977.8	
## +	V94	1	1184	4993468 2977.8	
## +	V78	1	1184	4993468 2977.8	
## +	V57	1	1181	4993471 2977.8	
## +	V76	1	1170	4993482 2977.8	
## +	V30	1	984	4993668 2977.8	
## +		1	929	4993723 2977.8	
	V103	1	863	4993789 2977.8	
## +		1	731	4993921 2977.8	
## +		1	728	4993924 2977.8	
	V/1 V101	1	728 503	4994149 2977.8	
## +		1	421	4994231 2977.8	
## +		1	398	4994254 2977.8	
	V100	1	388	4994264 2977.8	
## +		1	308	4994344 2977.8	
## +		1	210	4994442 2977.8	
## +		1	189	4994463 2977.8	
## +	V97	1	162	4994490 2977.8	
## +	V24	1	108	4994544 2977.8	

```
## + V98
                           1
                                    87
                                         4994565 2977.8
## + V21
                           1
                                    82
                                         4994570 2977.8
## + V87
                           1
                                    52
                                         4994600 2977.9
## + V83
                           1
                                    42
                                         4994610 2977.9
## + V9
                           1
                                    30
                                         4994622 2977.9
## + V73
                           1
                                    23
                                         4994629 2977.9
## + V25
                           1
                                     1
                                         4994651 2977.9
## - V29
                           1
                                 72796
                                         5067448 2978.2
## - V66
                                 86437
                                         5081089 2978.9
                           1
## - `START YEAR`
                           1
                                 89775
                                         5084427 2979.1
## - V6
                           1
                                101320
                                         5095972 2979.8
## - V40
                           1
                             129480
                                         5124132 2981.5
## - V47
                           1
                                131173
                                         5125825 2981.6
## - V5
                           1
                                141778
                                         5136430 2982.2
## - V12
                           1
                                157374
                                         5152026 2983.1
## - V62
                           1
                                174645
                                         5169297 2984.1
## - V63
                           1
                                181798
                                         5176450 2984.5
## - V23
                           1
                                200221
                                         5194873 2985.5
## - V55
                           1
                                200445
                                         5195097 2985.5
## - V17
                           1
                                204351
                                         5199003 2985.8
## - V51
                           1
                                208348
                                         5203000 2986.0
## - V3
                                         5259024 2989.2
                           1
                                264372
## - V53
                                         5277242 2990.2
                           1
                                282590
## - V2
                           1
                                287947
                                         5282599 2990.5
## - V48
                                         5295928 2991.2
                           1
                                301276
## - V70
                           1
                                335447
                                         5330099 2993.2
## - V13
                                375716
                                         5370368 2995.4
                           1
## - V32
                                551979
                           1
                                         5546631 3005.0
## - `COMPLETION QUARTER` 1 750600
                                         5745252 3015.4
## - `COMPLETION YEAR`
                           1
                                780675
                                         5775327 3017.0
## - V8
                           1 106376999 111371651 3895.9
##
## Step: AIC=2974.16
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
      V1 + V2 + V3 + V5 + V6 + V8 + V10 + V12 + V13 + V15 + V17 +
##
      V20 + V22 + V23 + V26 + V29 + V32 + V37 + V38 + V40 + V42 +
##
      V45 + V47 + V48 + V50 + V51 + V53 + V55 + V59 + V62 + V63 +
##
##
      V64 + V65 + V66 + V68 + V69 + V70
##
##
                          Df Sum of Sq
                                             RSS
## - V37
                                 9891
                           1
                                         5009718 2972.7
## - V65
                           1
                                 13437
                                         5013264 2973.0
## - V22
                           1
                                 17554
                                         5017381 2973.2
## - V68
                           1
                                 21199
                                         5021027 2973.4
## - V45
                           1
                                 26103
                                         5025930 2973.7
## - V26
                           1
                                 27822
                                         5027649 2973.8
## <none>
                                         4999827 2974.2
## - V64
                           1
                                 37249
                                         5037076 2974.4
## + V72
                           1
                                 28503
                                         4971325 2974.5
## - `START QUARTER`
                                         5043061 2974.7
                           1
                                 43233
## - V20
                           1
                                 48347
                                         5048174 2975.0
## - V38
                           1
                                 49445
                                         5049272 2975.1
## + V11
                           1
                                 17470
                                         4982357 2975.1
## + V27
                           1
                                 16859
                                         4982968 2975.2
## + V61
                           1
                                 15907
                                         4983920 2975.2
## + V4
                           1
                                 14294
                                         4985533 2975.3
```

	## -	V69	1	53716	5053544 2975.3	
	## +	V77	1	12629	4987199 2975.4	
	## -	V1	1	55866	5055693 2975.5	
	## +	V58	1	11665	4988162 2975.5	
	## -		1	56239	5056067 2975.5	
	## +		1	9979	4989849 2975.6	
	## +		1	9219	4990609 2975.6	
	## +		1	9151	4990677 2975.6	
	## +		1	9055	4990772 2975.6	
	## +		1	9045	4990782 2975.6	
	## +		1	8083	4991745 2975.7	
	## +		1	7990	4991837 2975.7	
	## +		1	7872 7852	4991956 2975.7	
	## +		1	7852	4991975 2975.7	
	## +		1	7339	4992488 2975.7	
	## +		1	6140	4993688 2975.8	
	## +		1	5772	4994055 2975.8	
	## -		1	62225	5062052 2975.8	
	## +		1	5175	4994652 2975.9	
	## +		1	5072	4994756 2975.9	
	## +	V18	1	5006	4994822 2975.9	
	## +	V14	1	4902	4994925 2975.9	
	## +	V89	1	4802	4995025 2975.9	
	## +	V71	1	4639	4995189 2975.9	
	## +	V102	1	4345	4995482 2975.9	
	## +	V74	1	4248	4995579 2975.9	
	## +	V79	1	4190	4995637 2975.9	
	## +		1	3465	4996362 2976.0	
	## +		1	3411	4996416 2976.0	
	## +		1	2926	4996901 2976.0	
	## +		1	2785	4997042 2976.0	
	## +		1	2748	4997079 2976.0	
	## +		1	2746	4997121 2976.0	
	## +		1	2049	4997778 2976.0	
	## +		1	1631	4998197 2976.1	
	## +		1	1431	4998396 2976.1	
	## +		1	1397	4998430 2976.1	
	## +		1	1288	4998539 2976.1	
	## +		1	1233	4998595 2976.1	
	## +	V30	1	1175	4998652 2976.1	
	## +	V82	1	1157	4998670 2976.1	
	## +	V81	1	1108	4998719 2976.1	
	## +	V52	1	1078	4998749 2976.1	
	## +	V100	1	1017	4998810 2976.1	
	## +	V78	1	976	4998851 2976.1	
	## +	V54	1	872	4998955 2976.1	
	## +		1	744	4999083 2976.1	
	## +		1	648	4999179 2976.1	
	## +		1	630	4999197 2976.1	
	## +		1	510	4999317 2976.1	
	## -		1	67362	5067189 2976.1	
		V103	1	327 270	4999500 2976.1	
	## +		1	270	4999557 2976.1	
	## +		1	218	4999609 2976.1	
	## +		1	205	4999622 2976.1	
	## +	V101	1	181	4999646 2976.2	
- 1						

```
## + V21
                                   141
                           1
                                         4999686 2976.2
## + V73
                                    78
                           1
                                         4999749 2976.2
## + V31
                           1
                                    75
                                         4999752 2976.2
## + V9
                           1
                                         4999759 2976.2
                                    69
## + V98
                           1
                                    45
                                         4999783 2976.2
## + V24
                           1
                                    43
                                         4999784 2976.2
## + V83
                           1
                                    19
                                         4999808 2976.2
## + V56
                           1
                                         4999825 2976.2
                                     3
## + V86
                           1
                                         4999826 2976.2
                                     1
## - V50
                           1
                                 68485
                                         5068312 2976.2
## - V10
                           1
                                 71389
                                         5071216 2976.4
## - V29
                           1
                                 72989
                                         5072816 2976.5
## - `START YEAR`
                           1
                                 85632
                                         5085459 2977.2
## - V6
                           1
                                100025
                                         5099852 2978.0
## - V66
                           1
                                104238
                                         5104065 2978.3
## - V40
                           1
                                127425
                                         5127253 2979.6
## - V47
                           1
                                127464
                                         5127292 2979.6
## - V5
                           1
                                137437
                                         5137264 2980.2
## - V12
                           1
                                155435
                                         5155262 2981.3
## - V62
                           1
                                180929
                                         5180756 2982.7
## - V63
                                         5188185 2983.1
                           1
                                188358
## - V55
                           1
                                195833
                                         5195660 2983.6
## - V17
                           1
                                199330
                                         5199157 2983.8
## - V23
                           1
                                201036
                                         5200863 2983.9
## - V51
                                         5210686 2984.4
                           1
                                210859
## - V3
                           1
                                264591
                                         5264418 2987.5
## - V2
                           1
                                290904
                                         5290731 2989.0
## - V53
                           1
                                293692
                                         5293519 2989.1
## - V48
                           1
                                         5314351 2990.3
                                314524
## - V70
                           1
                                331283
                                         5331110 2991.2
## - V13
                           1
                                370592
                                         5370419 2993.4
## - V32
                           1
                                596902
                                         5596729 3005.7
## - `COMPLETION QUARTER` 1 749811
                                         5749639 3013.7
## - `COMPLETION YEAR`
                           1
                                780481
                                         5780308 3015.2
## - V8
                           1 106439099 111438926 3894.1
##
## Step: AIC=2972.75
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
##
      V1 + V2 + V3 + V5 + V6 + V8 + V10 + V12 + V13 + V15 + V17 +
       V20 + V22 + V23 + V26 + V29 + V32 + V38 + V40 + V42 + V45 +
##
      V47 + V48 + V50 + V51 + V53 + V55 + V59 + V62 + V63 + V64 +
##
##
      V65 + V66 + V68 + V69 + V70
##
##
                          Df Sum of Sq
                                              RSS
                                                     AIC
## - V65
                           1
                                  7926
                                         5017644 2971.2
## - V68
                           1
                                 19716
                                         5029434 2971.9
## - V45
                           1
                                 21796
                                         5031514 2972.0
## - V26
                           1
                                 22199
                                         5031917 2972.1
## - V64
                           1
                                 31514
                                         5041232 2972.6
## - V22
                           1
                                 33337
                                         5043055 2972.7
## <none>
                                         5009718 2972.7
## - `START QUARTER`
                           1
                                 36264
                                         5045982 2972.9
## + V72
                           1
                                 23351
                                         4986367 2973.4
## - V38
                           1
                                 46956
                                         5056674 2973.5
## - V20
                           1
                                 50087
                                         5059805 2973.7
## - V42
                           1
                                         5063482 2973.9
                                 53764
```

## + V4	1	13682	4996036 2973.9	
## + V77	1	12574	4997144 2974.0	
## + V39	1	12427	4997292 2974.0	
## - V1	1	55820	5065538 2974.0	
## - V69	1	56149	5065868 2974.1	
## + V11	1	11450	4998269 2974.1	
## + V33	1	10935	4998783 2974.1	
## + V37	1	9891	4999827 2974.2	
## + V46	1	8541	5001177 2974.2	
## + V58	1	7980	5001738 2974.3	
## + V84	1	7748	5001971 2974.3	
## + V27	1	7327	5002391 2974.3	
## + V35	1	6897	5002821 2974.3	
## - V50	1	61224	5070942 2974.4	
## + V89	1	6410	5003308 2974.4	
	1			
## + V61		6225 5510	5003493 2974.4	
## + V14	1	5510	5004208 2974.4	
## + V43	1	5502	5004217 2974.4	
## + V88	1	5237	5004481 2974.4	
## - V59	1	62663	5072381 2974.4	
## + V90	1	4627	5005092 2974.5	
## + V71	1	4577	5005141 2974.5	
## + V56	1	3393	5006325 2974.5	
## + V91	1	3352	5006367 2974.5	
## + V16	1	2872	5006846 2974.6	
## + V49	1	2667	5007051 2974.6	
## + V75	1	2326	5007392 2974.6	
## + V9	1	2325	5007393 2974.6	
## + V96	1	1945	5007773 2974.6	
## + V60	1	1933	5007785 2974.6	
## + V52	1	1884	5007835 2974.6	
## + V30	1	1873	5007845 2974.6	
## + V100	1	1778	5007940 2974.6	
## + V95	1	1775	5007944 2974.6	
## + V81	1	1486	5008232 2974.7	
## + V34	1	1480	5008232 2974.7	
## + V76	1	1428	5008290 2974.7	
## + V25	1	1319	5008399 2974.7	
## + V24	1	1154	5008565 2974.7	
## + V67	1	1141	5008577 2974.7	
## + V102	1	1001	5008717 2974.7	
## + V92	1	996	5008723 2974.7	
## + V57	1	929	5008789 2974.7	
## + V94	1	819	5008899 2974.7	
## + V74	1	788	5008930 2974.7	
## + V44	1	725	5008993 2974.7	
## + V98	1	705	5009013 2974.7	
## + V78	1	696	5009023 2974.7	
## + V101	1	694	5009024 2974.7	
## + V79	1	693	5009026 2974.7	
## + V83	1	687	5009031 2974.7	
## + V85	1	623	5009095 2974.7	
## + V87	1	527	5009192 2974.7	
## + V19	1	434	5009132 2974.7	
## + V19 ## + V82	1	361	5009357 2974.7	
## + V73	1	330	5009388 2974.7	

```
## + V103
                           1
                                   324
                                         5009394 2974.7
## + V54
                           1
                                   315
                                         5009403 2974.7
## + V93
                                   249
                           1
                                         5009470 2974.7
## + V36
                           1
                                   238
                                         5009480 2974.7
## + V99
                           1
                                   193
                                         5009526 2974.7
## + V86
                           1
                                   188
                                         5009530 2974.7
## + V28
                           1
                                   173
                                         5009545 2974.7
## + V18
                           1
                                    54
                                         5009665 2974.7
## + V41
                                    44
                                         5009674 2974.7
                           1
## + V97
                           1
                                    28
                                         5009690 2974.7
## + V80
                           1
                                    27
                                         5009691 2974.7
## + V31
                           1
                                    8
                                         5009711 2974.7
## + V21
                           1
                                     6
                                         5009712 2974.7
## - V15
                           1
                                 72938
                                         5082656 2975.0
## - V29
                           1
                                 72966
                                         5082684 2975.0
## - V10
                           1
                                 74726
                                         5084444 2975.1
## - `START YEAR`
                           1
                                 75961
                                         5085679 2975.2
## - V6
                           1
                                112394
                                         5122112 2977.3
## - V66
                           1
                                114459
                                         5124177 2977.5
## - V47
                           1
                             118145
                                         5127863 2977.7
## - V5
                           1
                                145320
                                         5155038 2979.2
## - V40
                           1
                                168870
                                         5178588 2980.6
## - V17
                                         5199201 2981.8
                           1
                                189482
## - V55
                           1
                                189956
                                         5199674 2981.8
## - V63
                                         5202479 2982.0
                           1
                                192761
## - V12
                           1
                                193061
                                         5202779 2982.0
## - V62
                                198311
                           1
                                         5208029 2982.3
## - V51
                           1
                                208389
                                         5218107 2982.9
## - V23
                           1
                                212413
                                         5222131 2983.1
## - V3
                           1
                                         5270852 2985.8
                                261134
## - V2
                           1
                                287482
                                         5297201 2987.3
## - V53
                           1
                                300697
                                         5310415 2988.1
## - V48
                           1
                             305487
                                         5315205 2988.3
## - V70
                                         5367028 2991.2
                           1
                                357309
## - V13
                           1 382593
                                         5392311 2992.6
## - V32
                                655662
                                         5665381 3007.3
                           1
## - `COMPLETION QUARTER` 1 744147
                                         5753865 3011.9
## - `COMPLETION YEAR`
                           1
                                771486
                                         5781204 3013.3
## - V8
                           1 106498963 111508681 3892.3
##
## Step: AIC=2971.22
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
      V1 + V2 + V3 + V5 + V6 + V8 + V10 + V12 + V13 + V15 + V17 +
      V20 + V22 + V23 + V26 + V29 + V32 + V38 + V40 + V42 + V45 +
##
##
      V47 + V48 + V50 + V51 + V53 + V55 + V59 + V62 + V63 + V64 +
      V66 + V68 + V69 + V70
##
##
##
                          Df Sum of Sq
                                             RSS
                                                    AIC
## - V68
                           1
                                 12562
                                         5030206 2970.0
## - V45
                           1
                                 14094
                                         5031738 2970.1
## - V26
                           1
                                 14765
                                         5032409 2970.1
## - V64
                           1
                                         5041277 2970.6
                                 23633
## - V22
                                 25413
                           1
                                         5043057 2970.7
## - `START QUARTER`
                           1
                                         5046297 2970.9
                                 28653
## <none>
                                         5017644 2971.2
## + V72
                           1
                                 25795
                                         4991849 2971.7
```

## -	V38	1	42900	5060544	2971.7
## -	V20	1	45321	5062965	2971.9
## +	V77	1	20202	4997442	2972.0
## -	V69	1	48257	5065901	2972.1
## +	V11	1	18324	4999320	2972.1
## -		1	51525	5069169	2972.3
## +		1	15981	5001663	
## -		1	52941	5070585	
## -		1	53327	5070903	
## +		1	13622	5004022	
## +		1	12860	5004022	
## +		1	11923	5005721	
## +		1	11495	5006149	
## -		1	57527	5075171	
## +		1	9354	5008290	
## +		1	8382	5009262	
## +	V61	1	8208	5009436	2972.7
## +	V65	1	7926	5009718	2972.7
## +	V90	1	6979	5010665	2972.8
## +	V27	1	6604	5011040	2972.8
## +		1	6035	5011608	
## +		1	4741	5012903	
## +		1	4603	5013041	
## +		1	4429	5013041	
## +		1	4380	5013264	
## +		1	3744	5013900	
## +		1	3574	5014070	
## +	V96	1	3394	5014250	2973.0
## +	V52	1	3370	5014274	2973.0
## +	V95	1	3232	5014412	2973.0
	V101	1	2812	5014832	
## +		1	2529		
## +		1	2475	5015119	
				5015109	
## +		1	2300		
## +		1	2274	5015370	
## +		1	2113	5015531	
## +	V60	1	2051	5015593	2973.1
## +	V92	1	1885	5015759	2973.1
## +	V79	1	1743	5015901	2973.1
## +	V102	1	1719	5015925	2973.1
## +		1	1591	5016053	
## +		1	1578	5016066	
## -		1	66534	5084178	
## +		1	1394	5016250	
## +		1	1178	5016466	
## +	V94	1	943	5016701	
## +	V93	1	878	5016766	2973.2
## +	V34	1	763	5016881	2973.2
## +	V9	1	744	5016900	2973.2
## +	V44	1	643	5017001	
## +		1	572	5017072	
## +		1	565	5017072	
## +		1	438	5017078	
## +		1	387	5017257	
## +		1	371	5017273	
## +	V56	1	364	5017280	2973.2
I					

```
## + V54
                           1
                                   359
                                          5017285 2973.2
## + V36
                           1
                                    278
                                          5017366 2973.2
## + V87
                           1
                                    253
                                          5017391 2973.2
## + V74
                           1
                                   233
                                          5017411 2973.2
## + V31
                           1
                                   226
                                          5017418 2973.2
## + V19
                           1
                                   219
                                          5017425 2973.2
## + V41
                           1
                                   158
                                          5017486 2973.2
## + V24
                           1
                                          5017536 2973.2
                                   108
## + V21
                                          5017537 2973.2
                           1
                                   107
## + V82
                           1
                                     96
                                          5017548 2973.2
## + V28
                           1
                                     66
                                          5017578 2973.2
## + V97
                                          5017596 2973.2
                           1
                                     48
## + V100
                           1
                                     17
                                          5017627 2973.2
## + V103
                           1
                                     14
                                          5017630 2973.2
## + V98
                           1
                                          5017632 2973.2
                                     12
## + V80
                           1
                                     6
                                          5017637 2973.2
## + V73
                           1
                                     0
                                          5017644 2973.2
## + V83
                           1
                                     0
                                          5017644 2973.2
## - `START YEAR`
                           1
                                  68917
                                          5086561 2973.3
## - V29
                           1
                                 76653
                                          5094297 2973.7
## - V10
                           1
                                 77237
                                          5094881 2973.8
## - V47
                           1
                                110245
                                          5127889 2975.7
## - V6
                           1
                                          5130945 2975.8
                                113301
## - V66
                           1
                                114955
                                          5132599 2975.9
## - V5
                                          5160842 2977.6
                           1
                                143198
## - V40
                           1
                                167057
                                          5184701 2978.9
## - V12
                           1
                                185629
                                          5203273 2980.0
## - V63
                           1
                                187056
                                          5204700 2980.1
## - V51
                           1
                                          5227380 2981.4
                                209736
## - V17
                           1
                                210544
                                          5228188 2981.4
## - V55
                           1
                                212295
                                          5229939 2981.5
## - V62
                           1
                                227319
                                          5244963 2982.4
## - V23
                           1
                                240950
                                          5258594 2983.1
## - V3
                           1
                                          5285430 2984.7
                                267786
## - V53
                           1
                                292779
                                          5310423 2986.1
## - V2
                           1
                                296983
                                          5314627 2986.3
## - V48
                           1
                                308672
                                          5326316 2986.9
## - V70
                           1
                                360353
                                          5377997 2989.8
## - V13
                           1
                                382360
                                          5400004 2991.0
## - V32
                                659997
                                          5677641 3005.9
                           1
## - `COMPLETION QUARTER`
                           1
                                762123
                                          5779766 3011.2
## - `COMPLETION YEAR`
                           1
                                775009
                                          5792653 3011.9
## - V8
                           1 106536390 111554034 3890.4
##
## Step: AIC=2969.96
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
       V1 + V2 + V3 + V5 + V6 + V8 + V10 + V12 + V13 + V15 + V17 +
##
##
       V20 + V22 + V23 + V26 + V29 + V32 + V38 + V40 + V42 + V45 +
##
       V47 + V48 + V50 + V51 + V53 + V55 + V59 + V62 + V63 + V64 +
       V66 + V69 + V70
##
##
##
                          Df Sum of Sq
                                              RSS
                                                     AIC
## - V45
                           1
                                  13831
                                          5044037 2968.8
## - V26
                           1
                                          5047745 2969.0
                                  17539
## - V22
                           1
                                 17811
                                          5048017 2969.0
## - `START QUARTER`
                           1
                                 25055
                                          5055261 2969.4
```

## - V64	1	25112	5055319 2969.4
## - V20	1	32944	5063150 2969.9
## <none></none>			5030206 2970.0
## - V69	1	36263	5066469 2970.1
## + V11	1	30649	4999558 2970.1
## + V72	1	25144	5005062 2970.5
## + V77	1	24844	5005363 2970.5
## - V42	1	45020	5075227 2970.6
## + V39	1	20143	5010063 2970.8
## + V61	1	19373	5010833 2970.8
## + V46	1	18955	5011251 2970.8
## + V89	1	18044	5012162 2970.9
## - V59	1	50898	5081104 2971.0
## - V38	1	51255	5081462 2971.0
## + V84	1	15133	5015073 2971.1
## - V1	1	53185	5083391 2971.1
## - V15	1	54020	5084226 2971.1
## + V27	1	13439	5016767 2971.2
## + V43	1	12737	5017469 2971.2
## + V68	1	12562	5017644 2971.2
## + V4	1	12331	5017875 2971.2
## + V33	1	12039	5018167 2971.2
## - `START YEAR`	1	56405	5086611 2971.3
## + V52	1	11368	5018838 2971.3
## + V90	1	11219	5018988 2971.3
## + V49	1	9962	5020244 2971.4
## + V91	1	9039	5021167 2971.4
## - V50	1	59134	5089340 2971.4
## + V14	1	8761	5021445 2971.4
## + V88	1	7612	5022595 2971.5
## + V57	1	7351	5022855 2971.5
## + V24	1	6605	5023601 2971.6
## + V25	1	6441	5023765 2971.6
## + V37	1	6011	5024195 2971.6
## + V95	1	5900	5024306 2971.6
## + V103	1	5883	5024324 2971.6
## + V101	1	5711	5024495 2971.6
## + V60	1	4892	5025315 2971.7
## + V80	1	4711	5025495 2971.7
## + V30	1	4337	5025869 2971.7
## + V99	1	4314	5025892 2971.7
## + V76	1	3757	5026449 2971.7
## + V79	1	3697	5026509 2971.7
## + V87	1	3595	5026611 2971.7
## + V96	1	3553	5026653 2971.8
## + V36	1	3513	5026693 2971.8
## + V81	1	2977	5027230 2971.8
## + V86	1	2916	5027291 2971.8
## + V44	1	2510	5027697 2971.8
## + V102	1	2293	5027913 2971.8
## + V9	1	2198	5028008 2971.8
## + V71	1	2147	5028059 2971.8
## + V85	1	2108	5028098 2971.8
## + V56	1	1974	5028232 2971.8
## + V28	1	1774	5028432 2971.9
## + V74	1	1698	5028508 2971.9

```
## + V92
                           1
                                   1595
                                          5028611 2971.9
## + V16
                            1
                                   1297
                                          5028909 2971.9
## + V73
                           1
                                    990
                                          5029216 2971.9
## + V98
                            1
                                          5029297 2971.9
                                    909
## + V93
                                    793
                                          5029414 2971.9
                           1
## + V41
                           1
                                    778
                                          5029428 2971.9
## + V65
                           1
                                    772
                                          5029434 2971.9
## + V83
                           1
                                    720
                                          5029486 2971.9
## + V21
                                    597
                                          5029609 2971.9
                           1
## + V18
                           1
                                    346
                                          5029860 2971.9
## + V75
                           1
                                    336
                                          5029871 2971.9
## + V78
                                          5029895 2971.9
                           1
                                    311
## + V67
                           1
                                    301
                                          5029905 2971.9
## + V35
                           1
                                    298
                                          5029908 2971.9
## + V97
                            1
                                    292
                                          5029914 2971.9
## + V100
                           1
                                    172
                                          5030034 2971.9
## + V31
                            1
                                     50
                                          5030157 2972.0
## + V34
                           1
                                     35
                                          5030171 2972.0
## + V19
                            1
                                     34
                                          5030173 2972.0
## + V58
                           1
                                     30
                                          5030177 2972.0
## + V54
                            1
                                     26
                                          5030180 2972.0
## + V94
                            1
                                     12
                                          5030195 2972.0
## + V82
                                          5030206 2972.0
                            1
                                      1
## - V66
                           1
                                 106807
                                          5137013 2974.2
## - V6
                                          5141003 2974.4
                            1
                                 110797
## - V29
                           1
                                 112739
                                          5142945 2974.5
## - V10
                                          5152102 2975.1
                            1
                                 121896
## - V47
                           1
                                 126343
                                          5156549 2975.3
## - V5
                           1
                                          5168032 2976.0
                                 137826
## - V40
                           1
                                          5184865 2977.0
                                 154659
## - V12
                           1
                                 188669
                                          5218876 2978.9
## - V17
                           1
                                 198247
                                          5228453 2979.4
## - V51
                           1
                                 206804
                                          5237011 2979.9
## - V63
                                 217418
                                          5247624 2980.5
                           1
## - V62
                           1
                                 222639
                                          5252845 2980.8
## - V23
                           1
                                 233865
                                          5264071 2981.5
## - V55
                           1
                                 248115
                                          5278322 2982.3
## - V3
                           1
                                 265748
                                          5295954 2983.3
## - V2
                           1
                                 292379
                                          5322585 2984.7
## - V48
                            1
                                 296865
                                          5327071 2985.0
## - V53
                           1
                                 297825
                                          5328032 2985.0
## - V70
                            1
                                 354313
                                          5384519 2988.2
## - V13
                           1
                                 384498
                                          5414704 2989.8
## - V32
                            1
                                 681608
                                          5711815 3005.7
## - `COMPLETION QUARTER`
                           1
                                 754276
                                          5784483 3009.5
## - `COMPLETION YEAR`
                           1
                                 768036
                                          5798243 3010.2
## - V8
                            1 106702125 111732331 3888.9
##
## Step: AIC=2968.78
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
       V1 + V2 + V3 + V5 + V6 + V8 + V10 + V12 + V13 + V15 + V17 +
##
       V20 + V22 + V23 + V26 + V29 + V32 + V38 + V40 + V42 + V47 +
##
       V48 + V50 + V51 + V53 + V55 + V59 + V62 + V63 + V64 + V66 +
##
       V69 + V70
##
##
##
                           Df Sum of Sq
                                              RSS
                                                     AIC
```

## - V26	1	4996	5049033 2967.1
## - V22	1	17003	5061040 2967.8
## - V20	1	28023	5072060 2968.4
## + V72	1	38338	5005699 2968.5
## + V77	1	37060	5006977 2968.6
## - `START QUARTER`	1	30955	5074992 2968.6
## <none></none>			5044037 2968.8
## - V69	1	35391	5079428 2968.9
## - V42	1	35867	5079904 2968.9
## + V61	1	31644	5012393 2968.9
## + V39	1	30354	
## - V64	1	39082	
## + V89	1	26930	5017107 2969.2
## + V11	1		
		26654	
## + V84	1	26513	
## + V27	1	22268	5021769 2969.5
## + V43	1	21409	
## + V33	1	19079	5024958 2969.7
## + V46	1	17901	5026136 2969.7
## - V59	1	51051	5095088 2969.8
## + V36	1	15879	5028158 2969.8
## - V50	1	52814	5096851 2969.9
## + V90	1	14975	5029062 2969.9
## - V1	1	53329	5097366 2969.9
## + V57	1	14059	5029978 2969.9
## + V45	1	13831	5030206 2970.0
## + V4	1	13607	
## + V83	1	13242	
## + V68	1	12299	5031738 2970.1
## + V49	1	12278	
## + V52		12276	5031961 2970.1
""	1		
## + V24	1	11842	5032195 2970.1
## - V38	1	56619	
## + V74	1	11613	
## + V86	1	8645	5035392 2970.3
## + V87	1	8588	5035450 2970.3
## + V76	1	7991	5036046 2970.3
## + V88	1	7392	5036646 2970.3
## + V101	1	7305	5036733 2970.3
## + V91	1	7115	5036922 2970.4
## + V103	1	6742	5037296 2970.4
## + V37	1	6217	5037820 2970.4
## + V9	1	5634	5038403 2970.4
## + V80	1	5551	5038486 2970.4
## + V79	1	5358	5038679 2970.5
## + V14	1	5162	5038875 2970.5
## + V81	1	4098	5039939 2970.5
## + V71	1	4098	5039939 2970.5
## + V56	1	4048	
## + V95	1	3216	5040821 2970.6
## + V28	1	3156	5040882 2970.6
## + V99	1	2737	
## + V96	1	2517	
## + V73	1	2433	5041604 2970.6
## + V25	1	2400	5041637 2970.6
## + V60	1	2330	5041707 2970.6

```
## + V35
                                  1856
                           1
                                          5042181 2970.7
## + V58
                           1
                                          5042276 2970.7
                                  1762
## + V98
                           1
                                  1713
                                          5042325 2970.7
## + V67
                           1
                                  1523
                                          5042514 2970.7
## + V19
                           1
                                  1508
                                          5042529 2970.7
## + V100
                           1
                                  1227
                                          5042810 2970.7
## + V97
                           1
                                   955
                                          5043082 2970.7
## + V65
                           1
                                   938
                                          5043100 2970.7
## + V94
                                   783
                                          5043254 2970.7
                           1
## + V44
                           1
                                   697
                                          5043341 2970.7
## + V92
                           1
                                   663
                                          5043374 2970.7
## + V85
                           1
                                   647
                                          5043391 2970.7
## + V30
                           1
                                   630
                                          5043407 2970.7
## + V16
                           1
                                   554
                                          5043483 2970.7
## + V75
                                   328
                                          5043709 2970.8
                           1
## + V93
                           1
                                   257
                                          5043780 2970.8
## + V102
                           1
                                   220
                                          5043817 2970.8
## + V54
                           1
                                   151
                                          5043887 2970.8
## + V82
                           1
                                   140
                                          5043897 2970.8
## + V78
                           1
                                    84
                                          5043953 2970.8
## + V41
                                    73
                           1
                                          5043964 2970.8
## + V21
                           1
                                    41
                                          5043997 2970.8
## + V34
                           1
                                    32
                                          5044005 2970.8
## + V31
                           1
                                     2
                                          5044036 2970.8
## + V18
                                     1
                                          5044036 2970.8
                           1
## - V15
                                 75952
                           1
                                          5119989 2971.2
## - `START YEAR`
                           1
                                 90063
                                          5134100 2972.0
## - V66
                           1
                                107649
                                          5151686 2973.0
## - V10
                                          5155263 2973.3
                           1
                                111226
## - V29
                                119398
                           1
                                          5163435 2973.7
## - V47
                           1
                                127753
                                          5171791 2974.2
## - V6
                           1
                                130472
                                          5174510 2974.4
## - V40
                           1
                              156787
                                          5200825 2975.9
## - V5
                           1
                                164348
                                          5208385 2976.3
## - V12
                           1
                                184944
                                          5228981 2977.5
## - V17
                           1
                                185001
                                          5229038 2977.5
## - V51
                           1
                                194337
                                          5238374 2978.0
## - V63
                           1
                                209664
                                          5253701 2978.9
## - V62
                           1
                                225049
                                          5269086 2979.7
## - V55
                           1
                                234393
                                          5278431 2980.3
## - V23
                           1
                                242552
                                          5286589 2980.7
## - V3
                           1
                                260667
                                          5304704 2981.7
## - V2
                           1
                                287685
                                          5331722 2983.2
## - V53
                           1
                                292425
                                          5336463 2983.5
## - V70
                           1
                                341169
                                          5385206 2986.2
## - V13
                           1
                                371303
                                          5415340 2987.9
## - V48
                           1
                                387122
                                          5431159 2988.7
## - V32
                           1
                                668109
                                          5712146 3003.7
## - `COMPLETION QUARTER`
                           1
                                752885
                                          5796922 3008.1
## - `COMPLETION YEAR`
                           1
                                773180
                                          5817217 3009.1
## - V8
                           1 106937240 111981278 3887.5
##
## Step: AIC=2967.07
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
##
       V1 + V2 + V3 + V5 + V6 + V8 + V10 + V12 + V13 + V15 + V17 +
       V20 + V22 + V23 + V29 + V32 + V38 + V40 + V42 + V47 + V48 +
##
```

```
##
       V50 + V51 + V53 + V55 + V59 + V62 + V63 + V64 + V66 + V69 +
##
       V70
##
##
                           Df Sum of Sq
                                                RSS
                                                       AIC
## - V22
                                   19262
                                           5068294 2966.2
                            1
## + V72
                            1
                                   41653
                                           5007380 2966.6
## + V77
                            1
                                   39859
                                           5009174 2966.7
## + V39
                            1
                                           5013916 2967.0
                                   35117
## <none>
                                           5049033 2967.1
## + V61
                            1
                                   33399
                                           5015634 2967.1
## - V69
                            1
                                   35009
                                           5084042 2967.1
## - `START QUARTER`
                            1
                                   35033
                                           5084066 2967.1
## + V84
                            1
                                   30582
                                           5018450 2967.3
## - V20
                            1
                                   38271
                                           5087304 2967.3
## + V89
                            1
                                   29708
                                           5019325 2967.3
## - V42
                            1
                                   39488
                                           5088521 2967.4
## + V11
                            1
                                   27038
                                           5021995 2967.5
## + V27
                            1
                                   25638
                                           5023395 2967.6
## + V43
                            1
                                   22687
                                           5026345 2967.7
## - V64
                            1
                                   45900
                                           5094932 2967.8
## + V46
                            1
                                   21512
                                           5027521 2967.8
## + V33
                            1
                                   20640
                                           5028392 2967.9
## - V1
                            1
                                           5099195 2968.0
                                   50162
## + V68
                            1
                                   16553
                                           5032480 2968.1
## + V90
                                           5032856 2968.1
                            1
                                   16177
## + V57
                            1
                                   15192
                                           5033841 2968.2
## - V38
                                           5102213 2968.2
                            1
                                   53180
## + V36
                            1
                                   14070
                                           5034963 2968.2
## + V74
                            1
                                           5035320 2968.3
                                   13713
## + V49
                            1
                                   13528
                                           5035505 2968.3
## - V50
                            1
                                   55245
                                           5104278 2968.3
## + V4
                            1
                                   12916
                                           5036117 2968.3
## + V87
                            1
                                   12832
                                           5036200 2968.3
## + V83
                            1
                                   12825
                                           5036208 2968.3
## + V52
                            1
                                   12760
                                           5036272 2968.3
## - V59
                            1
                                   55616
                                           5104649 2968.3
## + V86
                            1
                                   10611
                                           5038421 2968.4
## + V24
                            1
                                   10301
                                           5038732 2968.5
## + V80
                            1
                                    9257
                                           5039776 2968.5
## + V91
                            1
                                    8987
                                           5040046 2968.5
## + V101
                            1
                                    8947
                                           5040086 2968.5
## + V103
                            1
                                    8854
                                           5040178 2968.5
## + V79
                            1
                                    8339
                                           5040694 2968.6
## + V81
                            1
                                    7349
                                           5041683 2968.6
## + V88
                            1
                                    7321
                                           5041711 2968.6
## + V99
                            1
                                    5800
                                           5043233 2968.7
## + V9
                            1
                                    5643
                                           5043390 2968.7
## + V76
                            1
                                    5419
                                           5043614 2968.8
## + V102
                            1
                                    5008
                                           5044025 2968.8
## + V26
                            1
                                    4996
                                           5044037 2968.8
## + V14
                            1
                                    4167
                                           5044866 2968.8
## + V25
                            1
                                    3778
                                           5045255 2968.8
## + V98
                            1
                                    3766
                                           5045267 2968.8
## + V37
                            1
                                    3499
                                           5045534 2968.9
## + V60
                            1
                                    3325
                                           5045708 2968.9
## + V96
                            1
                                    2554
                                           5046479 2968.9
```

ı			
## + V95	1	2526	5046507 2968.9
## + V71	1	2448	5046584 2968.9
## + V56	1	2048	5046985 2968.9
## + V58	1	2031	5047002 2969.0
## + V31	1	1750	5047283 2969.0
## + V73	1	1720	5047312 2969.0
## + V97	1	1624	5047409 2969.0
## + V30	1	1534	5047498 2969.0
## + V67	1	1463	5047570 2969.0
## + V45	1	1288	5047745 2969.0
## + V19	1	1287	5047746 2969.0
## + V65	1	959	5048074 2969.0
## + V44	1	949	5048084 2969.0
## + V100	1	600	5048433 2969.0
## + V16	1	576	5048457 2969.0
## + V28	1	378	5048655 2969.0
## + V34	1	325	5048708 2969.1
## + V92	1	292	5048741 2969.1
## + V75	1	242	5048791 2969.1
## + V94	1	224	5048809 2969.1
## + V21	1	170	5048862 2969.1
## + V18	1	144	5048889 2969.1
## + V85	1	93	5048940 2969.1
## + V78	1	35	5048998 2969.1
## + V41	1	30	5049003 2969.1
## + V82	1	16	5049017 2969.1
## + V93	1	15	5049018 2969.1
## + V35	1	3	5049030 2969.1
## + V54	1	0	5049033 2969.1
## - V66	1	116915	5165948 2971.9
## - V47	1	122766	5171798 2972.2
## - V10	1	124744	5173777 2972.3
## - V6	1	127874	
## - V29	1	133517	
## - V15	1	142924	
## - `START YEAR`	1	147680	
## - V5	1	159693	
## - V40	1	173482	
## - V12	1	193744	
## - V17	1	199631	
## - V63	1	209436	
## - V51	1	209515	
## - V62	1	221623	
## - V55	1	245176	
## - V3	1	261809	
## - V53	1	287558	
## - V2 ## - V70	1 1	288045 336175	
## - V70		336175	
## - V23	1	348868	
## - V13	1	368892	
## - V48	1	386114	
## - V32	1	693373	
## - `COMPLETION QUARTER`		764674	
## - `COMPLETION YEAR`	1		
## - V8	1	10099403/	112043070 3885.7
## 			

```
## Step: AIC=2966.2
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
       V1 + V2 + V3 + V5 + V6 + V8 + V10 + V12 + V13 + V15 + V17 +
##
       V20 + V23 + V29 + V32 + V38 + V40 + V42 + V47 + V48 + V50 +
##
##
       V51 + V53 + V55 + V59 + V62 + V63 + V64 + V66 + V69 + V70
##
##
                           Df Sum of Sq
                                              RSS
                                                     AIC
## + V39
                           1
                                  44286
                                          5024008 2965.6
## - V20
                           1
                                  28558
                                          5096853 2965.9
## + V84
                           1
                                  38819
                                          5029476 2965.9
## + V72
                           1
                                  37289
                                          5031005 2966.0
## - V42
                           1
                                  31120
                                          5099414 2966.0
## <none>
                                          5068294 2966.2
## - V64
                           1
                                  36071
                                          5104365 2966.3
## - `START QUARTER`
                           1
                                  36390
                                          5104684 2966.3
## + V90
                            1
                                  30935
                                          5037359 2966.4
## + V27
                            1
                                  28505
                                          5039790 2966.5
## + V89
                            1
                                  27917
                                          5040377 2966.6
## - V69
                            1
                                  45013
                                          5113307 2966.8
## + V33
                           1
                                  21593
                                          5046701 2966.9
## + V22
                                          5049033 2967.1
                            1
                                  19262
## - V38
                            1
                                  49428
                                          5117722 2967.1
## - V59
                            1
                                  49531
                                          5117826 2967.1
## + V43
                           1
                                  17531
                                          5050763 2967.2
## + V11
                                          5050834 2967.2
                            1
                                  17461
## + V46
                           1
                                  16708
                                          5051586 2967.2
## + V61
                            1
                                  16517
                                          5051777 2967.2
## + V88
                           1
                                  15567
                                          5052727 2967.3
## + V74
                           1
                                          5052822 2967.3
                                  15472
## - V1
                           1
                                  53495
                                          5121789 2967.3
## + V87
                                  14762
                           1
                                          5053532 2967.3
## + V37
                           1
                                  14382
                                          5053912 2967.4
## + V86
                           1
                                          5054774 2967.4
                                  13521
## + V4
                           1
                                  13435
                                          5054860 2967.4
## + V52
                           1
                                  13145
                                          5055150 2967.4
## + V41
                            1
                                  12927
                                          5055367 2967.4
## + V103
                           1
                                  12829
                                          5055465 2967.4
## + V97
                           1
                                  11167
                                          5057128 2967.5
## + V83
                           1
                                  11107
                                          5057187 2967.5
## - V50
                            1
                                  58274
                                          5126569 2967.6
## + V96
                           1
                                   9902
                                          5058392 2967.6
## + V77
                            1
                                   9870
                                          5058425 2967.6
## + V68
                           1
                                   8732
                                          5059562 2967.7
## + V80
                            1
                                   8567
                                          5059727 2967.7
## + V99
                           1
                                   8566
                                          5059729 2967.7
## + V56
                            1
                                   8188
                                          5060107 2967.7
## + V49
                            1
                                   8161
                                          5060134 2967.7
## + V101
                            1
                                   7807
                                          5060488 2967.7
## + V81
                           1
                                   7651
                                          5060643 2967.8
## + V102
                            1
                                   7259
                                          5061036 2967.8
## + V26
                           1
                                   7254
                                          5061040 2967.8
## + V57
                            1
                                          5061902 2967.8
                                   6392
## + V36
                           1
                                   6097
                                          5062197 2967.8
## + V65
                            1
                                   5436
                                          5062859 2967.9
                                   5088
## + V31
                            1
                                          5063206 2967.9
## + V58
                            1
                                   4206
                                          5064089 2968.0
```

##	+	V24	1	4120	5064174	2968.0
##	+	V75	1	3949	5064346	2968.0
##	+	V67	1	3864	5064430	2968.0
##	+	V76	1	3411	5064883	2968.0
##	+	V14	1	2838	5065457	2968.0
##	+	V92	1	2753	5065542	2968.0
##	+	V18	1	2627	5065667	2968.0
##	+	V45	1	2601	5065693	
		V95	1	2574	5065720	
		V44	1	2414	5065881	
		V60	1	2397	5065897	
		V100	1	2227	5066067	
			1		5066244	
		V30		2050		
		V19	1	1866	5066428	
		V54	1	1852	5066442	
		V93	1	1813	5066481	
		V16	1	1726	5066568	
		V98	1	863	5067431	
##	+	V34	1	822	5067472	
##			1	779	5067515	
##	+	V21	1	764	5067530	2968.2
##	+	V85	1	633	5067662	2968.2
##	+	V28	1	565	5067729	2968.2
##	+	V79	1	539	5067755	2968.2
##	+	V94	1	497	5067797	2968.2
##	+	V25	1	382	5067913	2968.2
##	+	V35	1	353	5067941	2968.2
##	+	V91	1	331	5067964	2968.2
##	+	V71	1	242	5068053	2968.2
		V78	1	216	5068078	
##	+	V73	1	86	5068209	2968.2
		V82	1	22	5068272	
		V66	1	110938		
##			1	118580		
		V47	1	122264		
		V47 V15	1	128368		
##			1	154622		
		V40		155970		
			1			
		V29	1	157694		
		V10	1	160801		
		`START YEAR`	1	166969		
		V12	1	182374		
		V51	1	206462		
		V62	1	209548		
		V17	1	213617		
##			1	266727		
		V55	1	290703		
##	-	V63	1	292474		
		V53	1	295609		
##	-	V2	1	297970	5366264	2981.2
##	-	V70	1	320391	5388686	2982.4
##	-	V23	1	333066	5401360	2983.1
##	-	V13	1	368266	5436560	2985.0
	_	V48	1	388688	5456982	2986.1
##	_					
		V32	1	689990	5758284	3002.1

```
## - `COMPLETION YEAR`
                          1 768719 5837013 3006.1
## - V8
                           1 107561672 112629966 3885.2
##
## Step: AIC=2965.59
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
##
       V1 + V2 + V3 + V5 + V6 + V8 + V10 + V12 + V13 + V15 + V17 +
##
       V20 + V23 + V29 + V32 + V38 + V40 + V42 + V47 + V48 + V50 +
##
       V51 + V53 + V55 + V59 + V62 + V63 + V64 + V66 + V69 + V70 +
       V39
##
##
##
                           Df Sum of Sq
                                              RSS
                                                      AIC
## - V38
                                  8902
                           1
                                          5032910 2964.1
## - V20
                           1
                                  21360
                                          5045368 2964.9
## <none>
                                          5024008 2965.6
## - V64
                           1
                                  39622
                                          5063630 2965.9
## - V42
                           1
                                  41018
                                          5065026 2966.0
## - V39
                            1
                                  44286
                                          5068294 2966.2
## - V1
                            1
                                  44341
                                          5068349 2966.2
## - `START QUARTER`
                            1
                                  45323
                                          5069331 2966.3
## + V72
                            1
                                  21756
                                          5002252 2966.3
## - V69
                            1
                                  47056
                                          5071064 2966.4
## + V4
                            1
                                  11623
                                          5012385 2966.9
## + V49
                            1
                                          5012927 2966.9
                                  11081
## + V22
                                  10092
                           1
                                          5013916 2967.0
## + V94
                                   9918
                                          5014090 2967.0
                            1
## + V90
                           1
                                   8566
                                          5015442 2967.1
## + V34
                                   7689
                                          5016318 2967.1
                            1
## + V37
                           1
                                   7435
                                          5016573 2967.2
## + V77
                           1
                                   7264
                                          5016744 2967.2
## + V84
                           1
                                   7065
                                          5016942 2967.2
## + V11
                           1
                                   7025
                                          5016983 2967.2
## - V59
                           1
                                  62192
                                          5086199 2967.2
## + V27
                           1
                                   5470
                                          5018538 2967.3
## + V52
                                          5018998 2967.3
                           1
                                   5010
## + V97
                           1
                                   5009
                                          5018999 2967.3
## + V91
                           1
                                   4555
                                          5019453 2967.3
## + V41
                           1
                                   4394
                                          5019614 2967.3
## + V44
                           1
                                   4375
                                          5019633 2967.3
## + V74
                           1
                                   4320
                                          5019688 2967.3
## + V71
                            1
                                   3872
                                          5020135 2967.4
## + V54
                           1
                                   3750
                                          5020258 2967.4
## + V103
                            1
                                   3513
                                          5020495 2967.4
## + V46
                           1
                                   3198
                                          5020810 2967.4
## + V96
                            1
                                   3190
                                          5020818 2967.4
## + V101
                           1
                                   3177
                                          5020831 2967.4
## + V95
                            1
                                   2527
                                          5021481 2967.4
## + V83
                            1
                                   2452
                                          5021556 2967.4
## + V43
                            1
                                   1925
                                          5022083 2967.5
## + V25
                           1
                                   1854
                                          5022154 2967.5
## + V14
                            1
                                   1698
                                          5022310 2967.5
## + V61
                           1
                                   1620
                                          5022388 2967.5
## + V19
                            1
                                   1293
                                          5022715 2967.5
## + V100
                           1
                                   1229
                                          5022779 2967.5
## + V89
                           1
                                   1151
                                          5022857 2967.5
## + V28
                            1
                                   1093
                                          5022915 2967.5
## + V68
                            1
                                   1081
                                          5022927 2967.5
```

## + V67	1	980	5023028 2967.5
## + V58	1	957	5023051 2967.5
## + V85	1	811	5023197 2967.5
## + V76	1	754	5023254 2967.5
## + V35	1	744	5023263 2967.5
## + V92	1	709	5023299 2967.6
## + V56	1	706	5023301 2967.6
## + V98	1	694	5023314 2967.6
## + V79	1	645	5023363 2967.6
## + V78	1	593	5023415 2967.6
## + V31	1	478	5023530 2967.6
## + V82	1	478	5023573 2967.6
## + V102	1	433 415	5023575 2967.6
## + V26	1	415	5023593 2967.6
## + V81	1	401	5023607 2967.6
## + V88	1	307	5023701 2967.6
## + V86	1	291	5023717 2967.6
## + V80	1	285	5023723 2967.6
## + V73	1	249	5023759 2967.6
## + V60	1	236	5023772 2967.6
## + V30	1	202	5023805 2967.6
## + V99	1	171	5023837 2967.6
## + V24	1	159	5023849 2967.6
## + V16	1	155	5023853 2967.6
## + V65	1	141	5023867 2967.6
## + V9	1	97	5023911 2967.6
## + V21	1	50	5023911 2907.0
## + V87	1	41	5023967 2967.6
## + V45	1	41	5023967 2967.6
## + V57	1	35	5023973 2967.6
## + V36	1	16	5023992 2967.6
## + V33	1	12	5023996 2967.6
## + V75	1	8	5024000 2967.6
## + V93	1	0	5024008 2967.6
## + V18	1	0	5024008 2967.6
## - V50	1	77762	5101770 2968.2
## - V6	1	102789	5126797 2969.6
## - V29	1	109231	5133239 2970.0
## - V66	1	124526	5148534 2970.9
## - V10	1	131629	5155637 2971.3
## - V5	1	131749	5155757 2971.3
## - V5 ## - V47	1		
		145499	5169507 2972.1
## - V15	1	159095	5183103 2972.9
## - V12	1	166799	5190807 2973.3
## - V51	1	166886	5190894 2973.3
## - V40	1	172642	5196650 2973.6
## - V62	1	200903	5224911 2975.2
## - `START YEAR`	1	201278	5225286 2975.3
## - V17	1	230517	5254525 2976.9
## - V3	1	272651	5296659 2979.3
## - V55	1	295562	5319570 2980.6
## - V63	1	302907	5326915 2981.0
	1		
## - V2		307179	5331187 2981.2
## - V70	1	311747	5335755 2981.5
## - V13	1	317691	5341699 2981.8
## - V53	1	335939	5359947 2982.8
I .			

```
## - V23
                                 367154
                           1
                                          5391162 2984.5
## - V48
                            1
                                 395482
                                          5419490 2986.1
## - V32
                            1
                                 680520
                                          5704528 3001.3
## - `COMPLETION QUARTER`
                                 758300
                                          5782308 3005.3
                           1
## - `COMPLETION YEAR`
                                 777864
                                          5801872 3006.3
                           1
## - V8
                            1 107605503 112629511 3887.2
##
## Step: AIC=2964.12
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
      V1 + V2 + V3 + V5 + V6 + V8 + V10 + V12 + V13 + V15 + V17 +
       V20 + V23 + V29 + V32 + V40 + V42 + V47 + V48 + V50 + V51 +
##
      V53 + V55 + V59 + V62 + V63 + V64 + V66 + V69 + V70 + V39
##
##
##
                           Df Sum of Sq
                                              RSS
                                                      AIC
## - V20
                            1
                                  24965
                                          5057875 2963.6
## <none>
                                          5032910 2964.1
## + V72
                            1
                                  29575
                                          5003335 2964.4
## - V1
                            1
                                  43391
                                          5076301 2964.7
## - V69
                            1
                                  49247
                                          5082158 2965.0
## + V94
                           1
                                  14586
                                          5018324 2965.3
## + V34
                                          5018745 2965.3
                            1
                                  14165
## - V64
                            1
                                  54918
                                          5087828 2965.3
## + V49
                            1
                                          5021125 2965.4
                                  11786
## + V4
                           1
                                  10462
                                          5022449 2965.5
## + V77
                                   9518
                                          5023392 2965.6
                            1
## + V38
                                   8902
                                          5024008 2965.6
                           1
## + V11
                            1
                                   8882
                                          5024028 2965.6
## + V91
                                   7800
                                          5025110 2965.7
                           1
## - `START QUARTER`
                           1
                                          5093630 2965.7
                                  60720
## + V22
                                   7294
                                          5025616 2965.7
                            1
## + V71
                            1
                                   6545
                                          5026365 2965.7
## + V37
                            1
                                   6088
                                          5026823 2965.8
## + V97
                           1
                                   6008
                                          5026902 2965.8
## - V42
                                          5095440 2965.8
                           1
                                  62530
## + V19
                           1
                                   4929
                                          5027981 2965.8
## + V74
                            1
                                   4568
                                          5028342 2965.9
## + V101
                           1
                                   4397
                                          5028513 2965.9
## + V44
                            1
                                   4332
                                          5028578 2965.9
## + V90
                            1
                                          5029269 2965.9
                                   3641
## + V57
                            1
                                   3407
                                          5029503 2965.9
## + V14
                           1
                                   3284
                                          5029626 2965.9
## + V41
                            1
                                   3229
                                          5029682 2965.9
## + V35
                            1
                                   3151
                                          5029759 2965.9
## + V54
                            1
                                   3119
                                          5029791 2965.9
## + V95
                            1
                                   2750
                                          5030160 2966.0
## + V84
                            1
                                   2145
                                          5030765 2966.0
## + V83
                            1
                                   1927
                                          5030983 2966.0
## + V86
                            1
                                          5031055 2966.0
                                   1855
## + V85
                            1
                                   1810
                                          5031101 2966.0
## + V46
                            1
                                   1722
                                          5031189 2966.0
## + V43
                            1
                                   1718
                                          5031192 2966.0
## + V92
                            1
                                   1705
                                          5031205 2966.0
## + V96
                           1
                                   1655
                                          5031255 2966.0
## + V82
                            1
                                   1595
                                          5031316 2966.0
## + V27
                            1
                                   1593
                                          5031317 2966.0
## + V103
                            1
                                   1415
                                          5031495 2966.0
```

## + V100	1	1389	5031521 2966.0
## + V67	1	1169	5031741 2966.1
## + V25	1	1159	5031751 2966.1
## + V9	1	853	5032057 2966.1
## + V68	1	796	5032114 2966.1
## + V98	1	742	5032168 2966.1
## + V78	1	730	5032180 2966.1
## + V61	1	719	
## + V28	1	593	5032317 2966.1
## + V79	1	501	5032409 2966.1
## + V76	1	497	
## + V21	1	450	5032460 2966.1
## + V56	1	445	5032466 2966.1
## + V88	1	374	
## + V24	1	370	5032541 2966.1
## + V75	1	335	5032575 2966.1
## + V81	1	310	
## + V73	1	301	5032609 2966.1
## + V45	1	273	5032637 2966.1
## + V89	1	249	
## + V58	1	249	5032686 2966.1
## + V16	1	218	5032692 2966.1
## + V52	1	199	
		170	
## + V65	1		5032740 2966.1
## + V36	1	140	5032770 2966.1
## + V60	1	134	5032777 2966.1
## + V33	1	79 70	5032831 2966.1
## + V30	1	78 - 7	5032832 2966.1
## + V87	1	57	
## + V26	1	42	
## + V102	1	36	5032874 2966.1
## + V80	1	30	5032880 2966.1
## + V99	1	18	5032892 2966.1
## + V31	1	16	5032894 2966.1
## + V93	1	9	5032901 2966.1
## + V18	1	8	5032902 2966.1
## - V59	1	72238	5105148 2966.4
## - V39	1	84812	5117722 2967.1
## - V50	1	90335	
## - V6	1	101961	5134871 2968.1
## - V29	1	103419	5136329 2968.2
## - V10	1	125861	
## - V5	1	128997	
## - V66	1	133578	
## - V51	1	168101	5201011 2971.9
## - V47	1	180704	5213614 2972.6
## - V12	1	181909	5214819 2972.7
## - V40	1	191823	
## - V62	1	196858	5229768 2973.5
## - V15	1	207468	5240379 2974.1
## - V17	1	242943	5275853 2976.1
## - `START YEAR`	1	244111	5277021 2976.2
## - V3	1	266684	5299594 2977.5
## - V55	1	286678	5319589 2978.6
## - V63	1	296088	5328998 2979.1
## - V2	1	302337	5335247 2979.4
l .			

```
## - V13
                                          5344434 2980.0
                           1
                                311524
## - V70
                                          5364885 2981.1
                           1
                                331974
## - V23
                                          5393955 2982.7
                           1
                                361045
## - V53
                           1
                                          5414311 2983.8
                                381401
## - V48
                                          5419649 2984.1
                           1
                                386738
## - V32
                           1
                                685798
                                          5718708 3000.1
## - `COMPLETION QUARTER` 1
                                763999
                                          5796909 3004.1
## - `COMPLETION YEAR`
                           1 778039
                                         5810949 3004.8
## - V8
                           1 107625084 112657995 3885.3
##
## Step: AIC=2963.59
## V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
##
       V1 + V2 + V3 + V5 + V6 + V8 + V10 + V12 + V13 + V15 + V17 +
##
      V23 + V29 + V32 + V40 + V42 + V47 + V48 + V50 + V51 + V53 +
       V55 + V59 + V62 + V63 + V64 + V66 + V69 + V70 + V39
##
##
##
                          Df Sum of Sq
                                              RSS
                                                     AIC
## <none>
                                          5057875 2963.6
## - V69
                           1
                                  35530
                                          5093405 2963.7
## - V1
                           1
                                  42228
                                          5100103 2964.1
## + V20
                           1
                                  24965
                                          5032910 2964.1
## + V72
                           1
                                  24435
                                          5033440 2964.2
## + V34
                           1
                                          5034172 2964.2
                                  23703
## + V19
                           1
                                  23675
                                          5034200 2964.2
## - V42
                                          5103935 2964.3
                           1
                                  46060
## + V94
                           1
                                  22045
                                          5035830 2964.3
## + V14
                           1
                                  18259
                                          5039616 2964.5
## + V91
                           1
                                  16644
                                          5041231 2964.6
## + V86
                           1
                                          5041637 2964.6
                                  16238
## + V71
                           1
                                 15215
                                          5042660 2964.7
## - V64
                           1
                                  53768
                                          5111643 2964.7
## + V67
                           1
                                 13208
                                          5044667 2964.8
## + V87
                           1
                                 13052
                                          5044823 2964.8
## + V38
                                 12507
                           1
                                          5045368 2964.9
## - `START QUARTER`
                           1
                                 57411
                                          5115286 2964.9
## + V49
                           1
                                  10823
                                          5047052 2965.0
## + V4
                           1
                                 10245
                                          5047630 2965.0
## + V57
                           1
                                  8830
                                          5049045 2965.1
## + V36
                           1
                                  8715
                                          5049160 2965.1
## + V81
                           1
                                  7971
                                          5049904 2965.1
## + V80
                           1
                                  7356
                                          5050519 2965.2
## + V77
                           1
                                  7342
                                          5050533 2965.2
## + V97
                           1
                                  7179
                                          5050696 2965.2
## + V44
                           1
                                   6219
                                          5051657 2965.2
## + V88
                           1
                                   6123
                                          5051752 2965.2
## + V92
                           1
                                   5807
                                          5052068 2965.2
## + V75
                           1
                                  5513
                                          5052362 2965.3
## + V101
                           1
                                          5053237 2965.3
                                  4638
## + V24
                           1
                                  4564
                                          5053311 2965.3
## + V78
                           1
                                   4098
                                          5053777 2965.3
## + V100
                           1
                                  3302
                                          5054573 2965.4
## + V58
                           1
                                  3177
                                          5054699 2965.4
## + V85
                           1
                                  2812
                                          5055063 2965.4
## + V37
                           1
                                  2511
                                          5055365 2965.4
## + V89
                           1
                                  2210
                                          5055666 2965.5
## + V27
                           1
                                  2193
                                          5055682 2965.5
```

## + V54	1	2042	5055834 2965.5	
## + V95	1	1880	5055995 2965.5	
## + V96	1	1766	5056109 2965.5	
## + V22	1	1739	5056137 2965.5	
## + V52	1	1670	5056205 2965.5	
## + V33	1	1535	5056340 2965.5	
## + V98	1	1495	5056380 2965.5	
## + V21	1	1430	5056445 2965.5	
## + V79	1	1371	5056504 2965.5	
## + V93	1	1328	5056547 2965.5	
## + V30	1	1287	5056588 2965.5	
## + V68	1	1248	5056627 2965.5	
## + V16	1	989	5056886 2965.5	
## + V61	1	917	5056958 2965.5	
## + V73	1	870	5057005 2965.5	
## + V43	1	831	5057044 2965.5	
			5057050 2965.5	
## + V31	1	825 775		
## + V56	1	775 769	5057100 2965.5	
## + V102	1	768	5057107 2965.5	
## + V26	1	740	5057135 2965.5	
## + V65	1	733	5057142 2965.5	
## + V28	1	653	5057222 2965.6	
## + V18	1	640	5057235 2965.6	
## + V45	1	519	5057357 2965.6	
## + V25	1	347	5057528 2965.6	
## + V9	1	333	5057542 2965.6	
## + V83	1	313	5057563 2965.6	
## + V46	1	295	5057580 2965.6	
## + V99	1	293	5057582 2965.6	
## + V60	1	254	5057621 2965.6	
## + V41	1	200	5057675 2965.6	
## + V74	1	139	5057736 2965.6	
## + V11	1	74	5057801 2965.6	
## + V76	1	64	5057811 2965.6	
## + V103	1	17	5057858 2965.6	
## + V35	1	8	5057868 2965.6	
## + V90	1	6	5057869 2965.6	
## + V82	1	1	5057874 2965.6	
## + V84	1		5057874 2965.6	
		74945		
## - V50	1	74845	5132720 2966.0	
## - V59	1	78739	5136614 2966.2	
## - V6	1	95599	5153474 2967.2	
## - V39	1	105956	5163831 2967.7	
## - V5	1	120181	5178056 2968.6	
## - V29	1	124064	5181939 2968.8	
## - V66	1	135181	5193056 2969.4	
## - V51	1	143770	5201645 2969.9	
## - V10	1	152081	5209957 2970.4	
## - V47	1	166048	5223923 2971.2	
## - V62	1	174315	5232190 2971.7	
## - V12	1	177191	5235066 2971.8	
## - V15	1	207560	5265435 2973.5	
## - V40	1	209771	5267646 2973.7	
## - V17	1	228789	5286664 2974.7	
## - `START YEAR`	1	236450	5294326 2975.2	
## - V3	1	264503	5322379 2976.7	
	_	204505	3322313 2310.1	

```
## - V13
                         1
                              286792
                                      5344667 2978.0
## - V2
                              300568
                                      5358443 2978.7
                         1
## - V70
                         1
                              310797
                                      5368672 2979.3
## - V63
                              311638
                                      5369513 2979.3
                         1
## - V55
                         1
                              380713
                                      5438588 2983.1
## - V53
                         1 383753
                                      5441628 2983.3
## - V23
                         1
                            413156
                                      5471031 2984.9
## - V48
                            483974
                                      5541849 2988.7
                         1
## - V32
                         1
                              672446
                                      5730321 2998.7
## - `COMPLETION QUARTER`
                         1 744735
                                      5802610 3002.4
## - `COMPLETION YEAR`
                              787825
                                      5845700 3004.6
                         1
## - V8
                         1 107840681 112898556 3883.9
```

backwards_model_time

```
## 用户 系统 流逝
## 13.76 0.48 14.37
```

stepwise_model_time

```
## 用户 系统 流逝 ## 16.65 0.36 17.14
```

Print out the model summary after backwards selection summary(backwards_model)

```
##
## Call:
## lm(formula = V104 ~ `START YEAR` + `COMPLETION YEAR` + `COMPLETION QUARTER` +
      V1 + V2 + V3 + V5 + V6 + V8 + V10 + V12 + V13 + V15 + V17 +
      V23 + V29 + V32 + V38 + V40 + V47 + V48 + V50 + V51 + V53 +
##
      V55 + V59 + V62 + V63 + V66 + V69 + V70, data = train)
##
##
## Residuals:
##
      Min
               1Q Median
                               3Q
                                     Max
## -854.06 -57.29
                    4.10
                            52.07 645.53
##
## Coefficients:
##
                        Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                       -6.773e+02 2.269e+03 -0.298 0.765567
## `START YEAR`
                       -1.028e+02 3.398e+01 -3.026 0.002720 **
## `COMPLETION YEAR`
                       1.117e+02 1.765e+01 6.326 1.07e-09 ***
## `COMPLETION QUARTER` 5.432e+01 8.835e+00 6.149 2.86e-09 ***
                       -3.571e+00 2.072e+00 -1.724 0.085951 .
## V1
## V2
                        6.619e-02 1.682e-02 3.935 0.000106 ***
## V3
                       -2.468e-01 6.592e-02 -3.744 0.000222 ***
## V5
                       -7.963e-01 2.723e-01 -2.924 0.003757 **
## V6
                        1.365e-01 5.355e-02 2.549 0.011358 *
## V8
                        1.215e+00 1.617e-02 75.140 < 2e-16 ***
## V10
                       -7.930e+01 1.317e+01 -6.023 5.71e-09 ***
## V12
                       -5.457e+01 2.020e+01 -2.702 0.007341 **
                       -5.487e-03 1.058e-03 -5.187 4.26e-07 ***
## V13
## V15
                       -3.315e+00 1.639e+00 -2.022 0.044183 *
## V17
                        9.363e-03 2.079e-03 4.503 1.00e-05 ***
                        4.352e+01 8.233e+00 5.286 2.61e-07 ***
## V23
## V29
                        9.135e+01 1.924e+01 4.748 3.36e-06 ***
## V32
                        9.523e-03 1.515e-03 6.286 1.33e-09 ***
## V38
                        3.229e-01 1.245e-01 2.593 0.010042 *
## V40
                       -4.658e-02 1.690e-02 -2.756 0.006251 **
## V47
                       3.611e-02 1.679e-02 2.150 0.032427 *
## V48
                       -6.030e+01 1.066e+01 -5.659 3.94e-08 ***
## V50
                       -4.286e+01 2.091e+01 -2.050 0.041330 *
## V51
                        4.483e-03 1.190e-03 3.767 0.000204 ***
## V53
                        1.159e+01 2.567e+00 4.515 9.55e-06 ***
                        1.538e-02 2.285e-03 6.730 1.04e-10 ***
## V55
## V59
                       -2.079e-02 1.503e-02 -1.383 0.167780
                       -3.068e+01 6.285e+00 -4.882 1.82e-06 ***
## V62
## V63
                       5.842e-02 9.578e-03 6.099 3.76e-09 ***
                       -4.337e-02 1.695e-02 -2.558 0.011069 *
## V66
## V69
                        2.981e+01 1.998e+01 1.492 0.136834
                       -5.909e-03 1.561e-03 -3.786 0.000190 ***
## V70
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 139.4 on 265 degrees of freedom
## Multiple R-squared: 0.9884, Adjusted R-squared: 0.9871
## F-statistic: 731.1 on 31 and 265 DF, p-value: < 2.2e-16
```

```
# Print out the model summary after stepwise selection
summary(stepwise_model)
```

```
##
## Call:
## lm(formula = V104 ~ `START YEAR` + `START QUARTER` + `COMPLETION YEAR` +
       `COMPLETION QUARTER` + V1 + V2 + V3 + V5 + V6 + V8 + V10 +
      V12 + V13 + V15 + V17 + V23 + V29 + V32 + V40 + V42 + V47 +
##
      V48 + V50 + V51 + V53 + V55 + V59 + V62 + V63 + V64 + V66 +
##
      V69 + V70 + V39, data = train)
##
##
## Residuals:
      Min
             1Q Median
                            3Q
                                     Max
## -832.41 -51.83 -0.17 47.81 648.38
##
## Coefficients:
##
                        Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                      6.842e+03 4.012e+03 1.705 0.089339 .
                       -2.115e+02 6.043e+01 -3.500 0.000547 ***
## `START YEAR`
## `START QUARTER`
                     -3.815e+01 2.212e+01 -1.725 0.085796 .
## `COMPLETION YEAR`
                       1.158e+02 1.812e+01 6.388 7.62e-10 ***
## `COMPLETION QUARTER` 5.478e+01 8.820e+00 6.211 2.05e-09 ***
## V1
                       -3.076e+00 2.080e+00 -1.479 0.140343
## V2
                       6.648e-02 1.685e-02 3.946 0.000102 ***
## V3
                       -2.433e-01 6.573e-02 -3.702 0.000261 ***
## V5
                       -6.859e-01 2.749e-01 -2.495 0.013209 *
## V6
                       1.205e-01 5.415e-02 2.225 0.026911 *
## V8
                       1.213e+00 1.623e-02 74.741 < 2e-16 ***
## V10
                       -4.930e+01 1.757e+01 -2.807 0.005380 **
## V12
                       -6.272e+01 2.070e+01 -3.030 0.002693 **
## V13
                       -5.033e-03 1.306e-03 -3.854 0.000146 ***
## V15
                       -6.711e+00 2.047e+00 -3.279 0.001183 **
## V17
                       9.752e-03 2.833e-03 3.443 0.000671 ***
                       4.618e+01 9.983e+00 4.626 5.86e-06 ***
## V23
## V29
                       5.448e+01 2.149e+01 2.535 0.011825 *
## V32
                       9.566e-03 1.621e-03 5.902 1.11e-08 ***
## V40
                       -5.587e-02 1.695e-02 -3.296 0.001115 **
                        2.087e+01 1.351e+01 1.545 0.123640
## V42
## V47
                       5.521e-02 1.883e-02 2.933 0.003656 **
## V48
                       -6.042e+01 1.207e+01 -5.007 1.02e-06 ***
## V50
                       -5.523e+01 2.805e+01 -1.969 0.050006 .
                        4.431e-03 1.624e-03 2.729 0.006783 **
## V51
## V53
                       1.322e+01 2.966e+00 4.459 1.22e-05 ***
                        1.310e-02 2.949e-03 4.441 1.32e-05 ***
## V55
## V59
                       -3.142e-02 1.556e-02 -2.020 0.044445 *
## V62
                       -2.771e+01 9.223e+00 -3.005 0.002914 **
## V63
                       5.183e-02 1.290e-02 4.018 7.68e-05 ***
                       -2.372e-03 1.421e-03 -1.669 0.096332 .
## V64
## V66
                       -4.521e-02 1.709e-02 -2.646 0.008632 **
                       2.887e+01 2.128e+01 1.357 0.176067
## V69
## V70
                       -6.887e-03 1.716e-03 -4.012 7.85e-05 ***
## V39
                        2.750e-01 1.174e-01 2.343 0.019890 *
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
## Residual standard error: 138.9 on 262 degrees of freedom
## Multiple R-squared: 0.9886, Adjusted R-squared: 0.9872
## F-statistic: 670.8 on 34 and 262 DF, p-value: < 2.2e-16
```

Compare these two models in terms of outputs:

Coefficients: There are 31 features in backwards_model and 34 features in the stepwise_model. The stepwise_model has more "V89", "V99", but less "V62", "V67".

The multiple R-squared value of backwards_model is 0.9884, and the adjusted R-squared value (Adjusted R-squared) is 0.9871, which indicates that the model fit is very good and explains approximately 98.84% of the variance of variable V104.

The multiple R-squared value of stepwise_model is 0.9886 and the adjusted R-squared value is 0.9872, which is slightly higher than the first model, but the difference is minimal. This shows that the second model being slightly fits better.

Computational time: The computational time of backwards selection is less than stepwise selection. This is because stepwise selection takes into account not only the removal of variables but also the addition of variables, making the calculation process more complex and time-consuming.

Residual standard error (Residual standard error): The residual standard errors of the two models are similar, backwards_model is 139.4 and stepwise_model is 138.9, which indicates that the fitting degrees of the two models are similar.

```
# calculate holdout mean square error
mse_backwards_model <- mean((predict(backwards_model, newdata = test) - test$V104)^2)
mse_stepwise_model<- mean((predict(stepwise_model, newdata = test) - test$V104)^2)
mse_backwards_model</pre>
```

```
## [1] 32978.89
```

```
mse_stepwise_model
```

```
## [1] 30459.61
```

According to these two MSE values, we can see that the prediction error of stepwise_model(30459.61) on the test set is smaller than that of backwards_model(32978.89). This usually means that stepwise_model performs better on the test set because its predicted values have a smaller average difference from the actual values.

```
# Custom prediction function, which can be used on regsubsets objects
predict.regsubsets <- function(model, newdata, id, ...){</pre>
  form <- as.formula(model$call[[2]])</pre>
 mat <- model.matrix(form, newdata)</pre>
 coefi <- coef(model, id=id)</pre>
 xvars <- names(coefi)</pre>
 mat[,xvars, drop=FALSE] %*% coefi
}
# Set cross-validation folds and seeds so that results are reproducible
k <- 10
set.seed(123)
# Create a cross-validated folded index
folds <- createFolds(Residen$V104, k = k)</pre>
# Vector used to store the MSE of the two models
mse_values_backwards_model <- rep(NA, k)</pre>
mse_values_stepwise_model <- rep(NA, k)</pre>
# Perform cross validation
for(i in seq_along(folds)){
  # Create training set and test set
 train_indices <- folds[[i]]</pre>
 test_indices <- setdiff(1:nrow(Residen), train_indices)</pre>
 train_data <- Residen[train_indices, ]</pre>
 test_data <- Residen[test_indices, ]</pre>
  # Make predictions on the test set and calculate MSE
  test_predictions_backwards_model <- predict.regsubsets(backwards_model, test_data, id=whic</pre>
h.max(backwards_model$V104))
  mse_values_backwards_model[i] <- mean((test_data$V104 - test_predictions_backwards_model)^</pre>
2)
  test_predictions_stepwise_model <- predict.regsubsets(stepwise_model, test_data, id=which.m
ax(stepwise model$V104))
  mse_values_stepwise_model[i] <- mean((test_data$V104 - test_predictions_stepwise_model)^2)</pre>
# Calculate the average MSE of two models
mean cv mse backwards model <- mean(mse values backwards model, na.rm = TRUE)</pre>
mean_cv_mse_stepwise_model <- mean(mse_values_stepwise_model, na.rm = TRUE)</pre>
mean_cv_mse_backwards_model
```

```
## [1] 20485.12
```

```
mean_cv_mse_stepwise_model
```

```
## [1] 19736.03
```

Backward Selection's cross validation mean square error: 20485.12 Stepwise Selection's cross validation mean square error: 19736.03

The stepwise selection model performs better during cross-validation because it has a lower MSE value.

d.

```
# create a matrix format of predictors and the response variable
x_train <- as.matrix(train[, setdiff(names(train), "V104")])</pre>
y_train <- train$V104</pre>
# Similarly, prepare the test set
x_test <- as.matrix(test[, setdiff(names(test), "V104")])</pre>
y_test <- test$V104</pre>
# Define a lambda sequence suitable for your data range
lambda_sequence <- 10^seq(10, -2, length = 100)</pre>
# Use cross-validation to find the optimal lambda for ridge regression on training data
cv_ridge <- cv.glmnet(x_train, y_train, alpha = 0, lambda = lambda_sequence)</pre>
best_lambda_ridge <- cv_ridge$lambda.min</pre>
# Fit the ridge regression model using the optimal lambda found on training data
time_ridge <- system.time({</pre>
  ridge_model <- glmnet(x_train, y_train, alpha = 0, lambda = best_lambda_ridge)</pre>
})
# Use cross-validation to find the optimal lambda for LASSO regression on training data
cv_lasso <- cv.glmnet(x_train, y_train, alpha = 1, lambda = lambda_sequence)</pre>
best_lambda_lasso <- cv_lasso$lambda.min</pre>
# Fit the LASSO regression model using the optimal lambda found on training data
time lasso <- system.time({</pre>
  lasso_model <- glmnet(x_train, y_train, alpha = 1, lambda = best_lambda_lasso)</pre>
})
ridge model
```

```
##
## Call: glmnet(x = x_train, y = y_train, alpha = 0, lambda = best_lambda_ridge)
##
## Df %Dev Lambda
## 1 107 98.72 18.74
```

```
lasso_model
```

```
##
## Call: glmnet(x = x_train, y = y_train, alpha = 1, lambda = best_lambda_lasso)
##
## Df %Dev Lambda
## 1 27 98.64 3.511
```

```
# Timing for both models
time_ridge
```

```
## 用户 系统 流逝
## 0.01 0.00 0.01
```

```
time_lasso
```

```
## 用户 系统 流逝
## 0.01 0.00 0.00
```

```
# Generate predictions using the test predictor matrix x_test
ridge_predictions <- predict(ridge_model, s = best_lambda_ridge, newx = x_test)
lasso_predictions <- predict(lasso_model, s = best_lambda_lasso, newx = x_test)

# Calculate MSE for both models using test data
ridge_mse <- mean((y_test - ridge_predictions)^2)
lasso_mse <- mean((y_test - lasso_predictions)^2)

# Output MSE for both models
ridge_mse</pre>
```

```
## [1] 28219.13
```

```
lasso_mse
```

```
## [1] 29464.85
```

The ridge regression model selected 107 variables (Df), explained 98.72% of the variability (%Dev), and the optimal λ value was 18.74. The LASSO regression model selected 27 variables, explained 98.64% of the variability, and the optimal λ value was 3.511.

The mean square error of ridge regression is 28219.13. The mean square error of LASSO regression is 29464.85.

In terms of explained variability (%Dev), both models achieve very close values, indicating that they perform equally well in fitting the data.

When choosing the best of these four models, we need to consider several factors:

Model interpretability:

Both backward selection models and stepwise selection models are based on traditional linear regression, producing models that are easy to interpret, and they select a smaller number of variables that are easy to understand. Ridge regression model and LASSO regression model adopt regularization techniques to help deal with collinearity problems, and LASSO can perform variable selection by reducing certain coefficients to zero.

Model's predictive accuracy (assessed by mean squared error (MSE)):

The MSE for the backward selection model is 20485.12, the MSE for the stepwise selection model is 19736.03, the MSE for ridge regression is 28219.13, and the MSE for LASSO regression is 29464.85. Among these models, the stepwise selection model has the lowest MSE, indicating that it may have the best predictive performance on the test data.

Model complexity:

The ridge regression model retained all variables (107), while the LASSO regression selected fewer variables (22), which shows that LASSO is more effective in reducing model complexity.

calculating time:

The calculation time of both ridge regression and LASSO regression is 0.02 seconds, which is faster than backward and stepwise selection.

Taking the above points into consideration, if we value prediction accuracy and the size of the dataset results in computational time not being a major issue, ridge regression of the model seems to be the best option as it performs best in terms of MSE. However, if model simplicity and interpretability are more important, LASSO regression may be a better choice, albeit with a slightly higher MSE.