```
options validvarname=v7; /*change the Variable names of the tables to Valid SAS Name*/
proc import out=Cancer datafile="/home/u61150141/sasuser.v94/Data_Science/Project/Breast_Cancer.csv"
guessingrows=max; /*Column Grade has values 1,2,3 and anaplastic; Grade IV which was giving error in import guessingrows=max v
proc freq data=Cancer;
    table grade;
run:
/*Data Cleaning*/
data Cancer;
    set Cancer;
    if Grade='anaplastic; Grade IV' then Grade=4;
run;
/*Checking count after updating the column */
proc freq data=Cancer;
   table grade;
run;
/*Creating Dummy Variable*/
data Cancer;
    set Cancer;
    /*Dummy Variable for Race with Race White as base value*/
    if Race='Black' then Race_Blk=1; else Race_Blk=0;
    if Race='Other' then Race_Oth=1; else Race_Oth=0;
    /*Dummy Variable for Marital_Status with Marital_Status Married as base value*/
   if Marital_Status='Divorced' then MS_DRC=1; else MS_DRC=0;
if Marital_Status='Separated' then MS_Sep=1; else MS_Sep=0;
    if Marital_Status='Single' then MS_Sin=1; else MS_Sin=0;
    if Marital_Status='Widowed' then MS_Wid=1; else MS_Wid=0;
    /*Dummy Variable for T_Stage with T_Stage T1 as base value*/
    if T_Stage='T2' then TS_T2=1; else TS_T2=0;
if T_Stage='T3' then TS_T3=1; else TS_T3=0;
    if T_Stage='T4' then TS_T4=1; else TS_T4=0;
    /*Dummy Variable for N_Stage with N_Stage N1 as base value*/
    if N_Stage='N2' then NS_N2=1; else NS_N2=0;
    if N_Stage='N3' then NS_N3=1; else NS_N3=0;
    /*Dummy Variable for _6th_Stage with _6th_Stage IIA as base value*/
    if _6th_Stage='IIB' then SS_IIB=1; else SS_IIB=0;
   if _6th_Stage='IIIA' then SS_IIIA=1; else SS_IIIA=0;
if _6th_Stage='IIIB' then SS_IIIB=1: else SS_IIIB=0:
       if _6th_Stage='IIIC' then SS_IIIC=1; else SS_IIIC=0;
    /*Dummy Variable for Differentiate with Differentiate 'Moderately differentiated' as base value*/
    if Differentiate='Poorly differentiated' then Diff_PD=1; else Diff_PD=0;
    if Differentiate='Undifferentiated' then Diff_UND=1; else Diff_UND=0;
    if Differentiate='Well differentiated' then Diff_WD=1; else Diff_WD=0;
    /*Dummy Variable for Grade with Grade '1' as base value*/
    if Grade=2 then Grd2=1; else Grd2=0;
    if Grade=3 then Grd3=1; else Grd3=0;
    if Grade=4 then Grd4=1; else Grd4=0;
    /*Dummy Variable for A_Stage with A_Stage Regional as base value*/
    if A_Stage='Distant' then ADistant=1; else ADistant=0;
    /*Dummy Variable for Estrogen_Status with Estrogen_Status Positive as base value*/
    if Estrogen_Status='Positive' then EstrogenN=1; else EstrogenN=0;
    /*Dummy Variable for Progesterone_Status with Progesterone_Status Positive as base value*/
    if Progesterone_Status='Positive' then ProgesteroneN=1; else ProgesteroneN=0;
    /*Dummy Variable for Status with Status Alive as base value*/
    if Status='Dead' then SDead=1; else SDead=0;
run;
```

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```
proc freq data=Cancer;
   table Race Race_Blk Race_Oth Marital_Status MS_DRC MS_Sep MS_Sin MS_Wid T_Stage TS_T2 TS_T3 TS_T4 N_Stage NS_N2 NS_N3
    _6th_Stage SS_IIB SS_IIIA SS_IIIB SS_IIIC Differentiate Diff_PD Diff_UND Diff_WD Grade Grd2 Grd3 Grd4 A_Stage ADistant
   Estrogen_Status EstrogenN Progesterone_Status ProgesteroneN Status SDead;
run:
/*Splitting the data in 70:30*/
Proc surveyselect data=Cancer samprate=.7 method=SRS out=Cancer_Split outall seed=12345; /*Samprate - size of the trainset*/
/*Proc surveyselect is to split the data samprate is for sample rate, dividing the data in 70:30
, method SRS is for simple random sample seed all using the same numbers to split the data */
data Cancer_train Cancer_Valid;
   set Cancer Split;
   if selected=1 then output Cancer_train; else output Cancer_Valid;
run:
/*Checking for the distribution of Biased variable*/
proc freq data=Cancer;
   table Status;
run;
proc freq data=Cancer_train;
   table Status;
run:
proc freq data=Cancer_Valid;
   table Status;
run;
/*EDA*/
proc freq data=Cancer;
   table Race Marital_Status T_Stage N_Stage _6th_Stage Differentiate A_Stage Estrogen_Status Progesterone_Status;
proc means data=Cancer n mean median min max q1 q3 stddev var maxdec=2;
   var Age; /*class is to add categorical division to the statistics*/
run;
/*Age Distribution*/
Proc sgplot data=Cancer;
   histogram Age/nbins=10 scale=count;
   title "Age Count";
   xaxis label="'Age'";
run:
/*Age by Status*/
proc means data=Cancer n mean median min max q1 q3 stddev var maxdec=2;
   var Age; class Status; /* class is to add categorical division to the statistics*/
run:
Proc sgplot data=Cancer;
   vbox Age/category=Status;
   Title "Age by Status";
run;
/*Age by Sruvival Months*/
proc means data=Cancer n mean median min max q1 q3 stddev var maxdec=2;
   var Survival_Months; class Status;
Proc sgplot data=Cancer; /*sgplot is to create scatter plot*/
   scatter x=Age y=Survival_Months;
   title "Scatterplot of Age by Survival Months";
   xaxis label="'Age'";
```

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```
yaxis label="Survival Month";
/*Survival_Months by Status*/
Proc sgplot data=Cancer;
   vbox Survival Months/category=Status;
   Title "Survival Month by Status";
run:
/*Age by T_Stage*/
Proc sgplot data=Cancer;
   vbox Age/category=T_Stage;
   title "Age by T-Stage";
   xaxis label="'Age'";
   yaxis label="T-Stage";
/*Bar Chart --Used for Categorical variables to show percent*/
Proc sgplot data=Cancer;
   vbar Estrogen Status/stat=pct group=Status GROUPDISPLAY = CLUSTER;/*stat is to change frequency to %*/
   yaxis values=(0 to 1 by 0.1) label="Percent";/*changing scaling for y axis*/
   title "Estrogen_Status by Status";
run:
Proc sgplot data=Cancer;
   vbar Progesterone Status/stat=pct group=Status GROUPDISPLAY = CLUSTER;/*stat is to change frequency to %*/
   yaxis values=(0 to 1 by 0.1) label="Percent";/*changing scaling for y axis*/
   title "Progesterone_Status by Status";
run;
/*Regional_Node_Positive by Status*/
proc sgplot data=Cancer;
   vbox reginol node positive/category=Status;
   Title "Reginol Node Positive by status";
run:
/* Correlation matrix */
proc corr data=Cancer;
   var age tumor_size regional_node_examined reginol_node_positive survival_months;
/*-----/*/
/*Multiple Linear Regression to predict Survival Months using all variables except Tumor_Size and by Proc Reg*/
Proc Reg data=Cancer_train; /*Reg = Regression*/
   Model Survival_Months=Age Race_Blk Race_Oth MS_DRC MS_Sep MS_Sin MS_Wid TS_T2 TS_T3 TS_T4 NS_N2 NS_N3
   SS IIB SS IIIA SS IIIB SS IIIC Diff PD Diff UND Diff WD Grd2 Grd3 Grd4 ADistant
   EstrogenN ProgesteroneN SDead Regional Node Examined Reginol Node Positive/clb corrb vif;
run:
/*Multiple Linear Regression to predict Survival Months using all variables except T_Stage and by Proc Reg*/
Proc Reg data=Cancer_train; /*Reg = Regression*/
   Model Survival Months=Age Race Blk Race Oth MS DRC MS Sep MS Sin MS Wid Tumor Size NS N2 NS N3
   SS_IIB SS_IIIA SS_IIIB SS_IIIC Diff_PD Diff_UND Diff_WD Grd2 Grd3 Grd4 ADistant
   EstrogenN ProgesteroneN SDead Regional_Node_Examined Reginol_Node_Positive/clb corrb vif;
run;
/*Multiple Linear Regression to predict Survival Months using all variables except Tumor_Size and by Proc HpReg*/
proc hpreg data=Cancer seed=12345;
   partition fraction(validate=0.3);
   model Survival_Months=Age Race_Blk Race_Oth MS_DRC MS_Sep MS_Sin MS_Wid TS_T2 TS_T3 TS_T4 NS_N2 NS_N3
   SS_IIB SS_IIIA SS_IIIB SS_IIIC Diff_PD Diff_UND Diff_WD Grd2 Grd3 Grd4 ADistant
   EstrogenN ProgesteroneN SDead Regional Node Examined Reginol Node Positive;
run:
/*Multiple Linear Regression to predict Survival Months using all variables except T_Stage and by Proc HpReg*/
proc hpreg data=Cancer seed=12345;
   partition fraction(validate=0.3);
   model Survival_Months=Age Race_Blk Race_Oth MS_DRC MS_Sep MS_Sin MS_Wid TS_T2 TS_T3 TS_T4 NS_N2 NS_N3
   SS IIB SS IIIA SS IIIB SS IIIC Diff PD Diff UND Diff WD Grd2 Grd3 Grd4 ADistant
   EstrogenN ProgesteroneN SDead Regional_Node_Examined Reginol_Node_Positive;
```

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```
selection method=stepwise(choose=validate);
/*Variables selection*/
/*Multiple Linear Regression to predict Survival Months with Forward Selection*/
Proc Reg data=Cancer_train; /*Reg = Regression*/
   Model Survival Months=Age Race Blk Race Oth MS DRC MS Sep MS Sin MS Wid TS T2 TS T3 TS T4 NS N2 NS N3
   SS IIB SS IIIA SS IIIB SS IIIC Diff PD Diff UND Diff WD Grd2 Grd3 Grd4 ADistant
   EstrogenN ProgesteroneN SDead Regional Node Examined Reginol Node Positive/selection=forward;
run:
/*Multiple Linear Regression to predict Survival Months with backward Selection*/
Proc Reg data=Cancer_train; /*Reg = Regression*/
   Model Survival Months=Age Race Blk Race Oth MS_DRC MS_Sep MS_Sin MS_Wid TS_T2 TS_T3 TS_T4 NS_N2 NS_N3
   SS_IIB SS_IIIA SS_IIIB SS_IIIC Diff_PD Diff_UND Diff_WD Grd2 Grd3 Grd4 ADistant
   EstrogenN ProgesteroneN SDead Regional_Node_Examined Reginol_Node_Positive/selection=backward;
run:
/*Multiple Linear Regression to predict Survival Months with Stepwise Selection with T_Stage*/
Proc Reg data=Cancer_train; /*Reg = Regression*/
   Model Survival Months=Age Race_Blk Race_Oth MS_DRC MS_Sep MS_Sin MS_Wid TS_T2 TS_T3 TS_T4 NS_N2 NS_N3
   SS IIB SS IIIA SS IIIB SS IIIC Diff PD Diff UND Diff WD Grd2 Grd3 Grd4 ADistant
   EstrogenN ProgesteroneN SDead Regional_Node_Examined Reginol_Node_Positive/selection=Stepwise;
/*Multiple Linear Regression to predict Survival Months with Stepwise Selection with Tumor_Size*/
Proc Reg data=Cancer_train; /*Reg = Regression*/
   Model Survival_Months=Age Race_Blk Race_Oth MS_DRC MS_Sep MS_Sin MS_Wid Tumor_Size NS_N2 NS_N3
   SS_IIB SS_IIIA SS_IIIB SS_IIIC Diff_PD Diff_UND Diff_WD Grd2 Grd3 Grd4 ADistant
   EstrogenN ProgesteroneN SDead Regional Node Examined Reginol Node Positive/selection=Stepwise;
run:
/*Hpreg with t_Stage and all variables with stepwise selection*/
proc hpreg data=Cancer seed=12345;
   partition fraction(validate=0.3);
   model Survival Months=Age Race Blk Race Oth MS DRC MS Sep MS Sin MS Wid TS T2 TS T3 TS T4 NS N2 NS N3
   SS_IIB SS_IIIA SS_IIIB SS_IIIC Diff_PD Diff_UND Diff_WD Grd2 Grd3 Grd4 ADistant
    EstrogenN ProgesteroneN SDead Regional Node Examined Reginol Node Positive;
   selection method=stepwise(choose=validate);
/*Hpreg with Tumor_size and all variables with stepwise selection*/
proc hpreg data=Cancer seed=12345;
   partition fraction(validate=0.3);
   model Survival Months=Age Race Blk Race Oth MS DRC MS Sep MS Sin MS Wid Tumor Size NS N2 NS N3
   SS_IIB SS_IIIA SS_IIIB SS_IIIC Diff_PD Diff_UND Diff_WD Grd2 Grd3 Grd4 ADistant
   EstrogenN ProgesteroneN SDead Regional_Node_Examined Reginol_Node_Positive;
   selection method=stepwise(choose=validate);
run:
/*with SDead, EstrogenN, Tumor_Size and SS_IIB, SS_IIIA, SS_IIIB, SS_II*/
proc hpreg data=Cancer seed=12345;
   partition fraction(validate=0.3);
   model Survival Months=Tumor_size SS_IIB SS_IIIA SS_IIIB SS_IIIC EstrogenN SDead;
    selection method=stepwise(choose=validate);
run:
/*with SDead, EstrogenN, Tumor_Size */
proc hpreg data=Cancer seed=12345;
   partition fraction(validate=0.3);
   model Survival_Months=Tumor_size EstrogenN SDead;
    selection method=stepwise(choose=validate);
run:
/*with SDead, EstrogenN, TS_T2 TS_T3 TS_T4 */
proc hpreg data=Cancer seed=12345;
   partition fraction(validate=0.3);
   model Survival_Months=TS_T2 TS_T3 TS_T4 EstrogenN SDead;
   selection method=stepwise(choose=validate);
run;
```

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```
/*with SDead, EstrogenN */
proc hpreg data=Cancer seed=12345;
   partition fraction(validate=0.3);
   model Survival Months= EstrogenN SDead;
   selection method=stepwise(choose=validate);
/*Final model with SDead, EstrogenN */
                   /*-----*/
/* CART for Survival months*/
/* with T stage */
proc hpsplit data=cancer nodes=detail;
   class Race Marital_Status T_Stage N_Stage _6th_Stage Differentiate A_Stage Grade Estrogen_Status Progesterone_Status statu
   model survival_months=age Race Marital_Status T_Stage N_Stage _6th_Stage Differentiate A_Stage Grade Estrogen_Status Progr
regional_node_examined reginol_node_positive status;
   grow rss;
   prune cc:
   partition fraction(validate=0.3 seed=12345);
Run:
/* with tumor_size */
proc hpsplit data=cancer nodes=detail;
   class Race Marital_Status N_Stage _6th_Stage Differentiate A_Stage Grade Estrogen_Status Progesterone_Status status;
   model survival_months=age Race Marital_Status N_Stage _6th_Stage Differentiate A_Stage Grade Estrogen_Status Progesterone
   tumor_size regional_node_examined reginol_node_positive status;
   grow rss;
   prune cc;
   partition fraction(validate=0.3 seed=12345);
run:
proc means data=cancer n min max mean median stddev var;
   var survival_months;
run:
/* with only important variables from CART -*/
proc hpsplit data=cancer nodes=detail;
   class Estrogen_Status status;
   model survival_months=Estrogen_Status status;
   grow rss;
   prune cc;
   partition fraction(validate=0.3 seed=12345);
run;
       /*----*/
/* NN for Survival months */
/* with Tumor_size*/
proc hpneural data=cancer;
   partition fraction(validate=0.3 seed=12345);
   target survival_months/level=int;
   input age tumor size regional node examined reginol node positive /level=int;
   input Race Marital_Status N_Stage _6th_Stage Differentiate A_Stage Grade Estrogen_Status Progesterone_Status status/level
   hidden 14;
   train maxiter=1000 numtries=5;
run:
/* with T stage */
proc hpneural data=cancer;
   partition fraction(validate=0.3 seed=12345);
   target survival_months/level=int;
   input age regional node examined reginol node positive /level=int;
   input Race Marital_Status T_Stage N_Stage _6th_Stage Differentiate A_Stage Grade Estrogen_Status Progesterone_Status statu
   hidden 14;
   train maxiter=1000 numtries=5;
run:
/* using important variables from CART tumor_size*/
proc hpneural data=cancer;
   partition fraction(validate=0.3 seed=12345);
   target survival_months/level=int;
   *input age tumor_size regional_node_examined/level=int;
   input Estrogen_Status status/level=nom;
   hidden 2;
   train maxiter=1000 numtries=5;
```

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Run;

```
/*-----Status------
                   /*-----*/
/*Logistic Regression with all variables and T_Stage*/
proc logistic data=Cancer_train outmodel=Cancer_model1; /*save all the parameter estimates for future analysis */
   Model SDead(event='1')=Age Race Blk Race_Oth MS_DRC_MS_Sep_MS_Sin_MS_Wid_TS_T2_TS_T3_TS_T4_NS_N2_NS_N3_
   SS_IIB SS_IIIA SS_IIIB SS_IIIC Diff_PD Diff_UND Diff_WD Grd2 Grd3 Grd4 ADistant
   EstrogenN ProgesteroneN Survival Months Regional Node Examined Reginol Node Positive;
/*Logistic Regression with all variables and Tumor_Size*/
proc logistic data=Cancer_train outmodel=Cancer_model1; /*save all the parameter estimates for future analysis */
   Model SDead(event='1')=Age Race Blk Race Oth MS DRC MS Sep MS Sin MS Wid Tumor Size NS N2 NS N3
   SS_IIB SS_IIIA SS_IIIB SS_IIIC Diff_PD Diff_UND Diff_WD Grd2 Grd3 Grd4 ADistant
   EstrogenN ProgesteroneN Survival Months Regional Node Examined Reginol Node Positive;
run;
/*Tumor_Size is not statistically Significant*/
/*Logistic Regression with all variables and T_Stage with forward selection*/
proc logistic data=Cancer_train outmodel=Cancer_model1; /*save all the parameter estimates for future analysis */
   Model SDead(event='1')=Age Race_Blk Race_Oth MS_DRC MS_Sep MS_Sin MS_Wid TS_T2 TS_T3 TS_T4 NS_N2 NS_N3
   SS_IIB SS_IIIA SS_IIIB SS_IIIC Diff_PD Diff_UND Diff_WD Grd2 Grd3 Grd4 ADistant
   EstrogenN ProgesteroneN Survival Months Regional Node Examined Reginol Node Positive/selection=forward;
run;
/*Logistic Regression with all variables and T_Stage with backward selection*/
proc logistic data=Cancer_train outmodel=Cancer_model1;
   Model SDead(event='1')=Age Race_Blk Race_Oth MS_DRC MS_Sep MS_Sin MS_Wid TS_T2 TS_T3 TS_T4 NS_N2 NS_N3
   SS_IIB SS_IIIA SS_IIIB SS_IIIC Diff_PD Diff_UND Diff_WD Grd2 Grd3 Grd4 ADistant
   EstrogenN ProgesteroneN Survival Months Regional Node Examined Reginal Node Positive/selection=backward;
/*Logistic Regression with all variables and T_Stage with Stepwise selection*/
proc logistic data=Cancer train outmodel=Cancer model1;
   Model SDead(event='1')=Age Race_Blk Race_Oth MS_DRC MS_Sep MS_Sin MS_Wid TS_T2 TS_T3 TS_T4 NS_N2 NS_N3
   SS_IIB SS_IIIA SS_IIIB SS_IIIC Diff_PD Diff_UND Diff_WD Grd2 Grd3 Grd4 ADistant
   EstrogenN ProgesteroneN Survival_Months Regional_Node_Examined Reginol_Node_Positive/selection=stepwise;
/*Tryin once again with Tumor_Size to recheck*/
/*Logistic Regression with all variables and Tumor_Size with Stepwise selection*/
proc logistic data=Cancer_train outmodel=Cancer_model1;
   Model SDead(event='0')=Age Race Blk Race Oth MS DRC MS Sep MS Sin MS Wid Tumor Size NS N2 NS N3
   SS_IIB SS_IIIA SS_IIIB SS_IIIC Diff_PD Diff_UND Diff_WD Grd2 Grd3 Grd4 ADistant
   EstrogenN ProgesteroneN Survival Months Regional Node Examined Reginal Node Positive/selection=stepwise;
/*Removed from stepwise selection*/
/*Logistic Regression with important variablesfrom the Stepwise selection*/
proc logistic data=Cancer_train outmodel=Cancer_model1;
   Model SDead(event='1')=Age Race_Blk Race_Oth TS_T2 TS_T3 TS_T4 NS_N2 NS_N3
   Diff PD Diff UND Diff WD Grd2 Grd3 Grd4 EstrogenN Survival Months Regional Node Examined Regional Node Positive;
run;
/*Logistic Regression with important variables from the Stepwise selection but removing t_stage*/
proc logistic data=Cancer_train outmodel=Cancer_model1;
   Model SDead(event='1')=Age Race Blk Race Oth TS T2 TS T3 TS T4 NS N2 NS N3
   Diff_PD Diff_UND Diff_WD Grd2 Grd3 Grd4 EstrogenN Survival_Months Regional_Node_Examined Reginol_Node_Positive;
/*No change in AUC by removing T_Stage so exculding T_Stage */
/*Logistic Regression with important variablesfrom the Stepwise selectionremoving t_STage and N_Stage*/
proc logistic data=Cancer_train outmodel=Cancer_model1;
   Model SDead(event='1')=Age Race_Blk Race_Oth
   Diff_PD Diff_UND Diff_WD Grd2 Grd3 Grd4 EstrogenN Survival_Months Regional_Node_Examined Regional_Node_Positive;
run;
/*Removing N_STage reduced AUC and reverting to N_Stage and removing grade*/
proc logistic data=Cancer_train outmodel=Cancer_model1;
```

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```
Model SDead(event='1')=Age Race_Blk Race_Oth NS_N2 NS_N3
   Diff_PD Diff_UND Diff_WD EstrogenN Survival Months Regional Node Examined Reginol Node Positive;
run;
/*Not much difference by removing Grade will test by removing Race */
proc logistic data=Cancer_train outmodel=Cancer_model1;
   Model SDead(event='1')=Age NS N2 NS N3
   Diff_PD Diff_UND Diff_WD EstrogenN Survival_Months Regional_Node_Examined Reginol_Node_Positive;
run:
/*Auc reduced a bit so reverting Race and removing Differentiate*/
proc logistic data=Cancer_train outmodel=Cancer_model1;
   Model SDead(event='1')=Age Race_Blk Race_Oth NS_N2 NS_N3
   EstrogenN Survival Months Regional Node Examined Reginol Node Positive;
/*AUC reduced further so reverting Differentiate*/
/*Final model with best AUC and Parsimony principle*/
proc logistic data=Cancer_train outmodel=Cancer_model1;
   Model SDead(event='1')=Age Race_Blk Race_Oth NS_N2 NS_N3
   Diff_PD Diff_UND Diff_WD EstrogenN Survival Months Regional Node Examined Reginol Node Positive;
run:
proc logistic data=Cancer_train outmodel=Cancer model1;
   Model SDead(event='1')=Age NS_N2 NS_N3
   EstrogenN Survival_Months Reginol_Node_Positive ProgesteroneN tumor_size;
run;
proc hpsplit data=cancer nodes=detail;
   class Race Marital_Status N_Stage _6th_Stage Differentiate A_Stage Grade Estrogen_Status Progesterone_Status status;
   model status(event="Dead")=age Race Marital_Status N_Stage _6th_Stage Differentiate A_Stage Grade Estrogen_Status Progest@
   survival_months tumor_size regional_node_examined reginol_node_positive;
   partition fraction(validate=0.3 seed=12345);
   grow gini;
   prune cc;
run;
proc hpsplit data=cancer nodes=detail;
   class N_Stage Estrogen_Status Progesterone_Status status;
   model status(event="Dead")=age N_Stage Estrogen_Status Progesterone_Status survival_months tumor_size reginol_node_positiv
   partition fraction(validate=0.3 seed=12345);
   grow gini;
   prune cc;
run;
proc hpsplit data=cancer nodes=detail;
   class N_Stage Race Estrogen_Status status Differentiate;
   model status(event="Dead")=Age Race N_Stage Differentiate Estrogen_Status Survival_Months Regional_Node_Examined Regional_N
   partition fraction(validate=0.3 seed=12345);
   grow gini;
   prune cc;
```

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