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%let path = /home/u64076587/ECRB94/data;
libname cr "&path";
proc contents data=cr.Tourism;
run;
data cr.cleaned_tourism;
  length Country_Name $300 Tourism_Type $20;
  retain Country_Name "" Tourism_Type "";
  set cr.Tourism(drop=_1995-_2013); /* Use correct library */

  if A ne . then Country_Name = Country;

  if lowercase(Country) = "inbound tourism" then Tourism_Type = "Inbound tourism";
  else if lowercase(Country) = "outbound tourism" then Tourism_Type = "Outbound tourism";
  else Tourism_Type = "Unknown"; /* Default value */

  /* Ensure that we're only keeping valid rows */
  if Country_Name ne Country and Country ne Tourism_Type;

  series=upcase(series);
  if series=".." then Series="";
  ConversionType=scan(country,-1,"");
  if _2014=".." then _2014=".";
  if ConversionType = 'Mn' then do;
    if _2014 ne "." then Y2014 = input(_2014,16.)*1000000;
    else Y2014=.;
    Category =cat(scan(country, 1,'-', 'r'), '- US$');
  end;
  else if ConversionType="Thousands" then do;
    if _2014 ne "." then Y2014 =input(_2014, 16.)*1000;
    else Y2014=.;
    Category=scan(country, 1,'-',r);
  end;
  format y2014 comma25.;
  drop A ConversionType Country _2014;
run;

proc freq data=cr.cleaned_tourism;
  tables Category Tourism_Type Series;
run;

proc means data=cr.Cleaned_tourism min mean max n maxdec=0;
  var Y2014;
run;

proc format;
  value contIDs
    1 = "North America"
    2 = "South America"
    3 = "Europe"
    4 = "Africa"
    5 = "Asia"
    6 = "Oceania"
    7 = "Antartica";
run;

proc sort data=cr.country_info(rename=(Country=Country_Name))
  out=country_sorted;
  by country_name;
run;

data final_tourism;

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merge cr.cleaned_tourism(in=t) Country_Sorted(in=c);  
by country_name;  
if t=1 and c=1 then output Final_Tourism;  
format continent contIDs.;  
run;  
  
proc freq data=final_tourism nlevels;  
tables category series Tourism_Type continent /nocum nopercent;  
run;  
  
proc means data =final_tourism min mean max maxdec=0;  
var Y2014;  
run;  
  
proc means data=final_tourism mean min max maxdec=0;  
var y2014;  
class Continent;  
where Category="Arrivals";  
run;  
  
proc means data=final_tourism mean maxdec=0;  
var y2014;  
where lowercase(Category) contains "tourism expenditure in other countries";  
run;
```