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%let path="/home/u63391234/TSA/TSAClaims2002_2017.csv";
libname tsa "/home/u63391234/TSA";
options validvarname=v7;
proc import datafile="/home/u63391234/TSA/TSAClaims2002_2017.csv"
dbms=csv
out=tsa.ClaimsImport
replace;
guessingrows=max;
run;

/*Explore Data*/
proc print data=tsa.ClaimsImport (obs=20);
run;
proc contents data=tsa.ClaimsImport varnum;
run;
/*copying data from claimsimport to tsa.claims_nodups*/
data tsa.Claims_NoDups;
    set tsa.ClaimsImport;
run;
proc freq data=tsa.Claims_NoDups;
tables Claim_Site Disposition Claim_Type / nocum nopercnt;
tables Date_Received Incident_Date / nocum nopercnt;
format Date_Received Incident_Date year4.;
run;

/*Clean the Claim_Site column.*/
data tsa.Claims_NoDups;
    set tsa.ClaimsImport;
    if Claim_Site in ('-', '') then Claim_Site="Unknown";
run;

/*Clean the Claim_type column*/
data tsa.Claims_NoDups;
    set tsa.ClaimsImport;
    if Claim_type in ('-', '') then Claim_type="Unknown";
    else if Claim_type="Passenger Property Loss/Injury" then Claim_type= "Passenger Property Loss";
    else if Claim_type="Property Damage/Personal Injury" then Claim_type= "Property Damage.";
run;

/*Clean the Disposition column.*/
data tsa.Claims_NoDups;
    set tsa.ClaimsImport;
    if Disposition in ('-', '') then Disposition="Unknown";
    else if Disposition='Closed: Canceled' then
Disposition='Closed:Canceled';
    else if Disposition='losed: Contractor Claim' then
Disposition='Closed:Contractor Claim';
RUN;
/*Create a new column that indicates date issues.*/
data tsa.Claims_NoDups;
    set tsa.ClaimsImport;
    if (Incident_Date > Date_Received or
Incident_Date = . or
Date_Received = . or
year(Incident_Date) < 2002 or
year(Incident_Date) > 2017 or
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year(Date_Received) < 2002 or
year(Date_Received) > 2017) then Date_Issues="Needs Review";
run;

data tsa.Claims_NoDups;
    set tsa.ClaimsImport;
    State=upcase(state);
    StateName=propcase(StateName);
run;

/*****
/*preparing data*/
proc sort data=tsa.ClaimsImport
out=tsa.Claims_NoDups
nodupkey;
by _all_;
run;

/*Sort the data by ascending Incident_Date.*/

proc sort data=tsa.Claims_NoDups;
by Incident_Date;
run;

/*Clean the Claim_Site column.*/
data tsa.Claims_NoDups;
    set tsa.ClaimsImport;
    if Claim_Site in ('-', '') then Claim_Site="Unknown";
run;

/*Clean the Disposition column.*/
data tsa.Claims_NoDups;
    set tsa.ClaimsImport;
    if Disposition in ("-", "") then
Disposition='Unknown';
else if Disposition='Closed: Canceled' then
Disposition='Closed:Canceled';
else if Disposition='losed: Contractor Claim' then
Disposition='Closed:Contractor Claim';
run;

/*Clean the Claim_Type column.*/
data tsa.Claims_NoDups;
    set tsa.ClaimsImport;
    if Claim_Type in ("-", "") then Claim_Type="Unknown";
else if Claim_Type = 'Passenger Property Loss/Personal Injur' then
Claim_Type='Passenger Property Loss';
else if Claim_Type = 'Passenger Property Loss/Personal Injury' then
Claim_Type='Passenger Property Loss';
else if Claim_Type = 'Property Damage/Personal Injury' then
Claim_Type='Property Damage';
run;

/*Convert all State values to uppercase and all StateName values to proper case.*/
data tsa.Claims_NoDups;
    set tsa.ClaimsImport;
    State=upcase(state);
    StateName=propcase(StateName);
run;

/*Create a new column that indicates date issues.*/
data tsa.Claims_NoDups;
    set tsa.ClaimsImport;
    if (Incident_Date > Date_Received or
Incident_Date = . or
Date_Received = . or
year(Incident_Date) < 2002 or

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year(Incident_Date) > 2017 or
year(Date_Received) < 2002 or
year(Date_Received) > 2017) then Date_Issues="Needs Review";
run;
/*Add permanent labels and formats.*/
format Incident_Date Date_Received date9. Close_Amount Dollar20.2;
label Airport_Code="Airport Code"
Airport_Name="Airport Name"
Claim_Number="Claim Number"
Claim_Site="Claim Site"
Claim_Type="Claim Type"
Close_Amount="Close Amount"
Date_Issues="Date Issues"
Date_Received="Date Received"
Incident_Date="Incident Date"
Item_Category="Item Category";
run;
/*Drop County and City.*/
drop County City;
RUN;

/*ANALYZE*/
/*Analyze the overall data to answer the business questions. Be sure to add appropriate titles.*/
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