/\* Access Dataaaa \*/

libname TSA '/home/u57950189/EPG1V2/data';

options validvarname = V7;

proc import datafile= "/home/u57950189/EPG1V2/data/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;

proc freq data= TSA.ClaimsImport;

tables claim\_site

disposition

claim\_type

date\_received

incident\_date/nocum nopercent;

format incident\_date date\_received year4.;

run;

proc print data= TSA.ClaimsImport;

where date\_received < incident\_date;

format date\_received incident\_date date9.;

run;

/\* Based on the knowledge of the data Prepare the data with points \*/

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

proc sort data= TSA.ClaimsImport out= TSA.Claims\_NoDups Noduprecs;

by \_all\_;

run;

proc sort data =TSA.Claims\_NoDups;

by incident\_date;

run;

/\* Creat a new data set for sorted set \*/

data TSA.Claims\_cleaned;

set TSA.Claims\_NoDups;

/\* Clean the Claim\_Site Column \*/

if Claim\_Site in ('-' , '') then Claim\_Site= "Unknown";

/\* Clean the Disposition Column \*/

if Disposition in ('-' , '') then Disposition="Unknown";

else if Disposition = 'losed: Contractor Claim' then Disposition= 'Closed:Contractor Claim';

else if Disposition = 'Closed: Canceled' then Disposition= 'Closed:Canceled';

/\* Clean the Claim tyep Column \*/

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";

/\* Convert all State Values to Uppercase and All State Names to Propercase \*/

State=upcase(state);

Statename=propcase(Statename);

/\* Create a new colum to indiacate Date issues \*/

If (Incident\_Date > Date\_Received or

Date\_received ='.' or Incident\_Date = . or

year(Incident\_Date) < 2002 or

year (Incident\_Date) > 2012 or

year (Date\_Received) < 2002 or

year (Date\_Received) > 2017 ) then Date\_issues = "Needs Review";

format Incident\_Date Date\_Received date9. Close\_Amount Dollar20.2;

label Airport\_Code= "Airport Code"

Airport\_Name= "Airport Name"

Claim\_Type="Claim Type"

Claim\_Number="Claim Number"

Claim\_Site="Claim Site"

Incident\_Date="Incident Date"

Date\_Received="Date Received"

Date\_Inssues="Date Issues"

Item Category="Item Category"

Close\_Amount="Close Amount";

Drop County City ;

run;

proc freq data= TSA.Claims\_cleaned order=freq;

tables Claim\_Site

Claim\_Type

Date\_issues

Disposition / nocum nopercent;

run;

/\* Overall Analysis \*/

/\* \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* \*/

%let Statename= California;

%let Outpath = '/home/u57950189/EPG1V2/Reports';

ods pdf file= "&outpath/ClaimsReport.pdf" style= Meadow pdftoc=1;

ods noproctitle;

ods proclabel "Overall Date issues";

title "Overall Date Issues In the Data";

proc freq data=TSA.Claims\_Cleaned;

table Date\_issues / nocum missing nopercent;

run;

ods graphics on;

ods proclabel "Overall claims by year";

title "Overall claims by Year";

proc freq data = TSA.Claims\_Cleaned;

tables Incident\_Date /nocum nopercent plots=freqplot;

format Incident\_Date year4.;

where Date\_issues is null;

run;

ods proclabel "&Staemnt claims overview";

title "&CLaim\_Type Claim\_Site Disposition";

proc freq data= TSA.Claims\_Cleaned order=freq;

table Claim\_Type Claim\_Site Disposition / nocum nopercent;

where Statename= "&Statename" Date\_issues is Null;

run;

title;

title "close amount Statistics";

ods proclabel "&StateName Close Amount Statsitics";

proc means data=TSA.Claims\_Cleaned mean min max sum maxdec=0;

var Close\_Amount;

where StateName= "California" and Date\_issues is Null;

run;

title;

ods pdf close;

/\* Export Data \*/

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*