

```
*---+---1---+---2---+---3---+---4---+---5---+---6---+---;
** c07s1d1.sas ***;
dm "output;clear;log;clear";

Libname ia "C:\_SasCourse2006\Course1\SAS_Data\IA";

** c06s2d1.sas ***;
*** create the permanent SAS dataset DFWLAX ***;
data IA.dfwlax;
  infile 'C:\_SasCourse2006\Course1\SAS_Data\dfwlax.dat';
  input @1 Flight $3. @4 Date mmddyy8.
        @12 Dest $3. @15 FirstClass 3.
        @18 Economy 3.;
run;

proc print data=IA.dfwlax;
  format Date date9.;
run;

*---+---1---+---2---+---3---+---4---+---5---+---6---+---;
*** create the temporary SAS dataset ONBOARD ***;
data onboard;
  set ia.dfwlax;
  Total=FirstClass+Economy;
run;

proc print data=onboard;
  format Date date9.;
run;

*---+---1---+---2---+---3---+---4---+---5---+---6---+---;
** c07s1d2.sas ***;
data onboard;
  set ia.dfwlax;
  Total=sum(FirstClass,Economy);
run;

proc print data=onboard;
  format Date date9.;
run;

*---+---1---+---2---+---3---+---4---+---5---+---6---+---;
** c07s1d3.sas ***;
data onboard;
  set ia.dfwlax;
  Total=FirstClass+Economy;
  DayOfWeek=weekday(Date);
run;
```

```

proc print data=onboard;
  var Flight Dest Total DayOfWeek Date;
  format Date weekdate.;
run;

*---+---1---+---2---+---3---+---4---+---5---+---6---+---;
** c07s1d4.sas ***;
data onboard;
  set ia.dfwlax;
  drop FirstClass Economy;
  Total=FirstClass+Economy;
run;

proc print data=onboard;
  format Date date9.;
run;

*---+---1---+---2---+---3---+---4---+---5---+---6---+---;
*** c07s2d1.sas ***;
dm "output;clear;log;clear";

Libname ia "C:\_SasCourse2006\Course1\SAS_Data\IA";

data flightrev;
  set ia.dfwlax;
  Total=sum(FirstClass,Economy);
  if Dest='LAX' then
    Revenue=sum(2000*FirstClass,1200*Economy);
  else if Dest='DFW' then
    Revenue=sum(1500*FirstClass,900*Economy);
run;

proc print data=flightrev;
  format Date date9.;
run;

*---+---1---+---2---+---3---+---4---+---5---+---6---+---;
*** c07s2d2.sas ***;
data flightrev;
  set ia.dfwlax;
  Total=sum(FirstClass,Economy);
  if upcase(Dest)='LAX' then
    Revenue=sum(2000*FirstClass,1200*Economy);
  else if upcase(Dest)='DFW' then
    Revenue=sum(1500*FirstClass,900*Economy);
run;

proc print data=flightrev;
  format Date date9.;
run;

```

```

*---+---1---+---2---+---3---+---4---+---5---+---6---+---;
*** c07s2d3.sas ***;
data flightrev;
  set ia.dfwlax;
  Total=sum(FirstClass,Economy);
  if upcase(Dest)='DFW' then do;
    Revenue=sum(1500*FirstClass,900*Economy);
    City='Dallas';
  end;
  else if upcase(Dest)='LAX' then do;
    Revenue=sum(2000*FirstClass,1200*Economy);
    City='Los Angeles';
  end;
run;

```

```

proc print data=flightrev;
  var Dest City Flight Date Revenue;
  format Date date9.;
run;

```

```

*---+---1---+---2---+---3---+---4---+---5---+---6---+---;
*** c07s2d4.sas ***;
data flightrev;
  set ia.dfwlax;
  length City $ 11;
  Total=sum(FirstClass,Economy);
  if upcase(Dest)='DFW' then do;
    Revenue=sum(1500*FirstClass,900*Economy);
    City='Dallas';
  end;
  else if upcase(Dest)='LAX' then do;
    Revenue=sum(2000*FirstClass,1200*Economy);
    City='Los Angeles';
  end;
run;

```

```

proc print data=flightrev;
  var Dest City Flight Date Revenue;
  format Date date9.;
run;

```

```

*---+---1---+---2---+---3---+---4---+---5---+---6---+---;
*** c07s2d5.sas ***;
data over175;
  set ia.dfwlax;
  length City $ 11;
  Total=sum(FirstClass,Economy);
  if Total le 175 then delete;
  if upcase(Dest)='DFW' then do;
    Revenue=sum(1500*FirstClass,900*Economy);
    City='Dallas';
  end;
  else if upcase(Dest)='LAX' then do;
    Revenue=sum(2000*FirstClass,1200*Economy);
    City='Los Angeles';
  end;
run;

proc print data=over175;
  var Dest City Flight Date Total Revenue;
  format Date date9.;
run;

*---+---1---+---2---+---3---+---4---+---5---+---6---+---;
*** c07s2d6.sas ***;
data over175;
  set ia.dfwlax;
  length City $ 11;
  Total=sum(FirstClass,Economy);
  if Total gt 175;
  if upcase(Dest)='DFW' then do;
    Revenue=sum(1500*FirstClass,900*Economy);
    City='Dallas';
  end;
  else if upcase(Dest)='LAX' then do;
    Revenue=sum(2000*FirstClass,1200*Economy);
    City='Los Angeles';
  end;
run;

proc print data=over175;
  var Dest City Flight Date Total Revenue;
  format Date date9.;
run;

```

```

*---+---1---+---2---+---3---+---4---+---5---+---6---+---;
*** c07s2d7.sas ***;
data over175;
  set ia.dfwlax;
  length City $ 11;
  Total=sum(FirstClass,Economy);
  if Total gt 175 and Date lt '14dec2000'd;
  if upcase(Dest)='DFW' then do;
    Revenue=sum(1500*FirstClass,900*Economy);
    City='Dallas';
  end;
  else if upcase(Dest)='LAX' then do;
    Revenue=sum(2000*FirstClass,1200*Economy);
    City='Los Angeles';
  end;
run;

proc print data=over175;
  var Dest City Flight Date Total Revenue;
  format Date date9.;
run;

*---+---1---+---2---+---3---+---4---+---5---+---6---+---;
*** c07s2d8.sas ***;
data over175;
  infile 'C:\_SasCourse2006\Course1\SAS_Data\dfwlax.dat';
  input @1 Flight $3. @4 Date mmddy8.
        @12 Dest $3. @15 FirstClass 3.
        @18 Economy 3.;
  length City $ 11;
  Total=sum(FirstClass,Economy);
  if Total gt 175 and Date lt '14dec2000'd;
  if upcase(Dest)='DFW' then do;
    Revenue=sum(1500*FirstClass,900*Economy);
    City='Dallas';
  end;
  else if upcase(Dest)='LAX' then do;
    Revenue=sum(2000*FirstClass,1200*Economy);
    City='Los Angeles';
  end;
run;

proc print data=over175;
  var Dest City Flight Date Total Revenue;
  format Date date9.;
run;

```

```

*---+---1---+---2---+---3---+---4---+---5---+---6---+---;
*** c07s2d9.sas ***;
data over175;
  set ia.dfwlax;
  where Date lt '14dec2000'd;
  length City $ 11;
  Total=sum(FirstClass,Economy);
  if Total gt 175;
  if upcase(Dest)='DFW' then do;
    Revenue=sum(1500*FirstClass,900*Economy);
    City='Dallas';
  end;
  else if upcase(Dest)='LAX' then do;
    Revenue=sum(2000*FirstClass,1200*Economy);
    City='Los Angeles';
  end;
run;

proc print data=over175;
  var Dest City Flight Date Total Revenue;
  format Date date9.;
run;

*---+---1---+---2---+---3---+---4---+---5---+---6---+---;
*** c07s2d1.sas ***;
dm "output;clear;log;clear";
Libname ia "c:\_SasCourse2006\Course1\SAS_Data";
data onboard(drop=FirstClass Economy);
  set ia.dfwlax;
  Total=FirstClass+Economy;
run;
proc print data=onboard;
  format Date date9.;
run;

*---+---1---+---2---+---3---+---4---+---5---+---6---+---;
*** c07s2d2.sas ***;
data onboard;
  drop FirstClass Economy;
  set ia.dfwlax;
  Total=FirstClass+Economy;
run;
proc print data=onboard;
  format Date date9.;
run;

```

```

*---+---1---+---2---+---3---+---4---+---5---+---6---+---;
*** c07s2d1.sas ***;
dm "output;clear;log;clear";
Libname ia "c:\_SasCourse2006\Course1\SAS_Data";
data onboard(drop=FirstClass Economy);
    set ia.dfwlax;
    Total=FirstClass+Economy;
run;
proc print data=onboard;
    format Date date9.;
run;

*---+---1---+---2---+---3---+---4---+---5---+---6---+---;
*** c07s2d2.sas ***;
data onboard;
    drop FirstClass Economy;
    set ia.dfwlax;
    Total=FirstClass+Economy;
run;
proc print data=onboard;
    format Date date9.;
run;

*---+---1---+---2---+---3---+---4---+---5---+---6---+---;
*** c07s4d1.sas ***;
dm "output;clear;log;clear";
Libname ia "c:\_SasCourse2006\Course1\SAS_Data";
proc import out=work.dfwlaxdates

datafile='C:\_SasCourse2006\Course1\SAS_Data\datefields.xls'
    dbms=excel2000 replace;
run;

proc print data=work.dfwlaxdates;
run;

*---+---1---+---2---+---3---+---4---+---5---+---6---+---;
*** c07s4d2.sas ***;
proc import out=work.dfwlaxdatetimes

datafile='C:\_SasCourse2006\Course1\SAS_Data\datetimefields.xls'
    dbms=excel2000 replace;
    usedate=no;
run;

proc print data=work.dfwlaxdatetimes;
run;

```