

SAS講義(二)

```

/*****
/*  filename : read-data.sas
/*  Using different methods to read data
/*  SAS procedure: print, import
/*  data file: example5.dat , example.xlsx
*****/
OPTIONS linesize=80 PAGESIZE=500;
data example1;
    infile datalines;
    input id height weight gender $ age;

datalines;
1 68 144 m 23
2 78 202 m 34
3 62 99 f 37
4 61 101 f 45
;

proc print data=example1;
    title 'example 1 dataset';
run;

/*****
data example2;
    infile datalines;
    input id height weight gender $ age;

cards;
1      144 m 23
2 78 202 m 34
3 62 99 f 37
4 61 101 f 45
;

proc print data=example2;
    title 'example 2 dataset';
run;

/*****
data example3;
    infile datalines;
    input id height weight gender $ age;

datalines;
1 . 144 m 23
2 78 202 m 34
3 62 99 f 37
4 61 101 f 45
;

```

```

proc print data=example3;
  title 'example 3 dataset';
run;

/*****/
data example4;
  infile datalines dlm=' ';
  input id height weight gender $ age;

datalines;
1, ., 144, m, 23
2, 78, 202, m, 34
3, 62, 99, f, 37
4, 61, 101, f, 45
;

proc print data=example4;
  title 'example 4 dataset';
run;

/*****/
data example5;
  infile 'C:\Users\iris\Desktop\104(1)課程\運統\SAS講義\example5.dat'
  dlm=' ';
  input id height weight gender $ age;

proc print data=example5;
  title 'example 5 dataset';
run;

proc means data=example5;
  var height;
run;

/*****/
data example6;
  infile datalines;
  input id
        height
        weight
        gender $
        age
        ;
datalines;
1      144 m 23
2 78   202 m 34
3 62   99  f 37
4 61   101 f 45
;

```

```

proc print data=example6;
  title 'example 6 dataset';
run;

/*****/
proc import out= excel_example7 datafile=
"C:\Users\iris\Desktop\104(1)課程\運統\SAS講義\EXAMPLE.xlsx"
dbms=xlsx REPLACE;
  sheet="example";
  getnames=yes;
run;

proc print data=excel_example7;
  title 'example 7 dataset';
run;

/*****/
proc import out= excel_example8 datafile=
"C:\Users\iris\Desktop\104(1)課程\運統\SAS講義\EXAMPLE.xlsx"
DBMS=xlsx REPLACE;
  sheet="工作表1";
  getnames=yes;
run;

proc print data=excel_example8;
  title 'example 8 dataset';
run;

proc print data=excel_example8;
  title '';
run;

```

Log file: filename.lst (*.log)

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NOTE: This session is executing on the W32_VSPRO platform.

NOTE: SAS initialization used:

real time	1.48 seconds
cpu time	1.38 seconds

```

1  OPTIONS linesize=80 PAGESIZE=500;
2  data example1;
3      infile datalines;
4      input id height weight gender $ age;

```

```
5
6    datalines;
```

NOTE: The data set WORK.EXAMPLE1 has 4 observations and 5 variables.

NOTE: DATA statement used (Total process time):

```
    real time          0.07 seconds
    cpu time           0.00 seconds
```

```
11   ;
12
13   proc print data=example1;
14       title 'example 1 dataset';
15   run;
```

NOTE: There were 4 observations read from the data set WORK.EXAMPLE1.

NOTE: PROCEDURE PRINT used (Total process time):

```
    real time          0.02 seconds
    cpu time           0.03 seconds
```

Output file: filename.lst (*.lst)

example 1 dataset						
Obs	id	height	weight	gender	age	
1	1	68	144	m	23	
2	2	78	202	m	34	
3	3	62	99	f	37	
4	4	61	101	f	45	

Q：問題在那裡？

example 2 dataset

Obs	id	height	weight	gender	age
1	1	144	.	23	2
2	3	62	99	f	37
3	4	61	101	f	45

Q：問題在那裡？

```
141 data example4;
142   infile datalines dlm='.';
143   input id height weight gender age;
144
145   datalines;
NOTE: 在第 146 行、第 9-9 行中有對 "gender" 無效的資料。
RULE:  ----+----1----+----2----+----3----+----4----+----5----+----6----+----
146   1,.,144,m,23
id=1 height=144 weight=144 gender=, age=23 _ERROR_=1 _N_=1
NOTE: 在第 147 行、第 10-10 行中有對 "gender" 無效的資料。
147   2,78,202,m,34
id=2 height=78 weight=202 gender=, age=34 _ERROR_=1 _N_=2
NOTE: 在第 148 行、第 9-9 行中有對 "gender" 無效的資料。
148   3,62,99,f,37
id=3 height=62 weight=99 gender=, age=37 _ERROR_=1 _N_=3
NOTE: 在第 149 行、第 10-10 行中有對 "gender" 無效的資料。
149   4,61,101,f,45
id=4 height=61 weight=101 gender=, age=45 _ERROR_=1 _N_=4
NOTE: The data set WORK.EXAMPLE4 has 4 observations and 5 variables.
NOTE: DATA statement used (Total process time):
      real time           0.01 seconds
      cpu time            0.01 seconds
```

Q：問題在那裡？

```
134 data example5;
135   infile 'C:\Users\iris\Desktop\104(1)課程\運統\SAS講義\example.dat'
136! dlm='.';
137   input id height weight gender $ age;
ERROR: Physical file does not exist.
      C:\Users\iris\Desktop\104(1)課程\運統\SAS講義\example.dat.
NOTE: The SAS System stopped processing this step because of errors.
WARNING: The data set WORK.EXAMPLE5 may be incomplete. When this step was
stopped there were 0 observations and 5 variables.
WARNING: Data set WORK.EXAMPLE5 was not replaced because this step was stopped.
NOTE: DATA statement used (Total process time):
      real time           0.03 seconds
      cpu time            0.03 seconds
```