



## Exercises 3

Create a SAS work dataset based on the dataset sfosch.dat or sfosch.txt and call the dataset “flights”.

The variable names are: FlightID RouteID Destination Model Date DepartDay FClassPass BClassPass  
EClassPass TotPassCap CargoWt CargoRev.

Examine the data to determine the columns for each variable and if the variable is character or numeric. Part of the data set is given below as well as one line of data from a spread sheet.

```
*-----1-----2-----3-----4-----5-----6-----7-----8;
IA112000000112   HNDJetCruise LF8100      01DEC2000 6   19 31   171 255 61300 79077
IA018040000018   SEAJetCruise SF1000      01DEC2000 6   10     123 150 10300 13287
IA029010000029   HNLJetCruise LF5200      02DEC2000 7   13 24   138 207 47400 61146
IA031000000031   ANCJetCruise LF8100      02DEC2000 7   13 22   250 255 24800 31992
IA029010000029   HNLJetCruise LF5200      03DEC2000 1   14 25   132 207 48200 62178
IA031000000031   ANCJetCruise MF4000      03DEC2000 1   16     243 267 25600 33024
IA008000000008   RDUJetCruise MF4000      04DEC2000 2   16     243 267 25600 33024
IA018050000018   SEAJetCruise SF1000      04DEC2000 2   11     123 150 10100 13029
IA018040000018   SEAJetCruise LF5100      06DEC2000 4   11 12   111 165 12500 16125
IA031010000031   ANCJetCruise LF8100      06DEC2000 4   14 26   233 255 28000 36120
IA018020000018   SEAJetCruise SF1000      07DEC2000 5   10 N/A   132 150   8500 10965
IA112000000112   HNDJetCruise LF8100      08DEC2000 6   17 33   194 255 56700 73143
IA031010000031   ANCJetCruise LF8100      08DEC2000 6   13 17   242 255 26400 34056
IA018040000018   SEAJetCruise SF1000      08DEC2000 6   12     119 150 10700 13803
IA112010000112   HNDJetCruise LF8100      09DEC2000 7   15 32   175 255 61100 78819
IA031000000031   ANCJetCruise MF4000      09DEC2000 7   14     237 267 27200 35088
```

FlightID	RouteID	Destination	Model	Date	DepartDay	FClassPass	BClassPass	EClassPass	TotPassCap	CargoWt	CargoRev
IA11200	0000112	HND	JetCruise LF8100	01DEC2000	6	19	31	171	255	61300	79077

**In the program do the following:**

- 1) Include a comment at the top of the program with your name and identifying the exercise (Exercise 03).**
- 2) Use the SAS informat “DATE9.” for the date variable. List the data with the format “MMDDYY10.”.**
- 3) Calculate the percentage of the total passengers that are Economy class passengers (e.g. Percent = 100 \* EClassPass / TotPassCap).**
- 4) Create a permanent SAS Data Library called “IA” and put your data set in the permanent library. Check the log to confirm that the SAS data library was assigned.**
- 5) Use “PROC MEANS” to calculate the mean cargo weight.**
- 6) Check the library contents with “PROC CONTENTS”.**

**Your data listing should look like the following partial listing:**

1	IA11200	0000112	HND	JetCruise	LF8100	12/01/2000	6	19	31	171	255	61300	79077	67.0588
2	IA01804	0000018	SEA	JetCruise	SF1000	12/01/2000	6	10	.	123	150	10300	13287	82.0000
3	IA02901	0000029	HNL	JetCruise	LF5200	12/02/2000	7	13	24	138	207	47400	61146	66.6667
4	IA03100	0000031	ANC	JetCruise	LF8100	12/02/2000	7	13	22	250	255	24800	31992	98.0392
5	IA02901	0000029	HNL	JetCruise	LF5200	12/03/2000	1	14	25	132	207	48200	62178	63.7681
6	IA03100	0000031	ANC	JetCruise	MF4000	12/03/2000	1	16	.	243	267	25600	33024	91.0112
7	IA00800	0000008	RDU	JetCruise	MF4000	12/04/2000	2	16	.	243	267	25600	33024	91.0112
8	IA01805	0000018	SEA	JetCruise	SF1000	12/04/2000	2	11	.	123	150	10100	13029	82.0000
9	IA01804	0000018	SEA	JetCruise	LF5100	12/06/2000	4	11	12	111	165	12500	16125	67.2727
10	IA03101	0000031	ANC	JetCruise	LF8100	12/06/2000	4	14	26	233	255	28000	36120	91.3725
11	IA01802	0000018	SEA	JetCruise	SF1000	12/07/2000	5	10	.	132	150	8500	10965	88.0000
12	IA11200	0000112	HND	JetCruise	LF8100	12/08/2000	6	17	33	194	255	56700	73143	76.0784
13	IA03101	0000031	ANC	JetCruise	LF8100	12/08/2000	6	13	17	242	255	26400	34056	94.9020
14	IA01804	0000018	SEA	JetCruise	SF1000	12/08/2000	6	12	.	119	150	10700	13803	79.3333
15	IA11201	0000112	HND	JetCruise	LF8100	12/09/2000	7	15	32	175	255	61100	78819	68.6275
16	IA03100	0000031	ANC	JetCruise	MF4000	12/09/2000	7	14	.	237	267	27200	35088	88.7640