

**APPENDIX****1****Sample Data**

<i>Introduction</i>	151
<i>PC Files</i>	151
<i>CUSTOMERS Data</i>	151
<i>EMPLOYEES Data</i>	154
<i>INVOICE Data</i>	155
<i>ORDERS Data</i>	156
<i>SPECPROD Data</i>	158
<i>SAS Data Files</i>	159
<i>DLIB.BIRTHDAY SAS Data File</i>	159
<i>DLIB.OUTOFSTK SAS Data File</i>	160
<i>DLIB.TEMPEMPS SAS Data File</i>	161
<i>DLIB.RATEOFEX SAS Data File</i>	162

Introduction

This appendix provides information about the PC files and SAS data files that are used in the examples in this document. In addition, this appendix lists the SAS statements used to create the SAS data files and the data in those files. If you want to run the examples in this document, access your online HELP system or contact your SAS Software Representative for information on how to access the sample library files.

PC Files

The following sections provide the data in the PC files that are used in the examples in this document.

CUSTOMERS Data

The data in the CUSTOMERS file are shown in Table A1.1 on page 152.

Table A1.1 Customer Data

CUSTOMER	STATE	ZIP CODE	COUNTRY	PHONE	NAME
14324742	CA	95123	USA	408629-0589	SANTA CLARA VALLEY TECHNOLOGY SPECIALISTS
14569877	NC	27514	USA	919/ 489-6792	PRECISION PRODUCTS
14898029	MD	20850	USA	301/ 760-2541	UNIVERSITY BIOMEDICAL MATERIALS
15432147	MI	49001	USA	616/ 582-3906	GREAT LAKES LABORATORY EQUIPMENT MANUFACTURERS
18543489	TX	78701	USA	512/ 478-0788	LONE STAR STATE RESEARCH SUPPLIERS
19783482	VA	22090	USA	703/ 714-2900	TWENTY-FIRST CENTURY MATERIALS
19876078	CA	93274	USA	209/ 686-3953	SAN JOAQUIN SCIENTIFIC AND INDUSTRIAL SUPPLY, INC.
26422096		75014	France	4268-54-72	SOCIETE DE RECHERCHES POUR LA CHIRURGIE ORTHOPEDIQUE
26984578		5110	Austria	43-57-04	INSTITUT FUER TEXTIL-FORSCHUNG
27654351		5010	Belgium	02/215-37-32	INSTITUT DE RECHERCHE SCIENTIFIQUE MEDICALE
28710427		3607	Netherlands	(021)570517	ANTONIE VAN LEEUWENHOEK VERENIGING VOOR MICROBIOLOGIE
29834248		—	Britain	(0552)715311	BRITISH MEDICAL RESEARCH AND SURGICAL SUPPLY
31548901		—	Canada	406/ 422-3413	NATIONAL COUNCIL FOR MATERIALS RESEARCH
38763919		1405	Argentina	244-6324	INSTITUTO DE BIOLOGIA Y MEDICINA NUCLEAR
39045213		01051	Brazil	012/ 302-1021	LABORATORIO DE PESQUISAS VETERINARIAS DESIDERIO FINAMOR
43290587		—	Japan	(02)933-3212	HASSEI SAIBO GAKKAI
43459747		3181	Australia	03/734-5111	RESEARCH OUTFITTERS
46543295		—	Japan	(03)022-2332	WESTERN TECHNOLOGICAL SUPPLY

46783280	2374	Singapore	3762855	NGEE TECHNOLOGICAL INSTITUTE
48345514	---	United Arab Emirates	213445	GULF SCIENTIFIC SUPPLIES

CUSTOMER	CONTACT	ADDRESS	CITY	FIRSTORDER
14324742	A. BAUM	5089 CALERO AVENUE	SAN JOSE	05FEB1970
14569877	CHARLES BARON	198 FAYETTEVILLE ROAD	MEMPHIS	15AUG1988
14898029	S. TURNER	1598 PICCARD DRIVE	ROCKVILLE	12NOV1981
15432147	D.W. KADARAUCH	103 HARRIET STREET	KALAMAZOO	28APR1991
18543489	A. SILVERIA	5609 RIO GRANDE	AUSTIN	10SEP1984
19783482	M.R. HEFFERNAN	4613 MICHAEL FARADAY DRIVE	RESTON	18JUL1973
19876078	J.A. WHITTEN	1095 HIGHWAY 99 SOUTH	TULARE	11MAY1984
26422096	Y. CHAVANON	40 RUE PERIGNON	LA ROCHELLE	14JUN1988
26984578	GUNTHER SPIELMANN	MECHITARISTENGASSEVIENNA 5		25MAY1992
27654351	I. CLEMENS	103 RUE D'EGMONT	BRUSSELS	14OCT1991
28710427	M.C. BORGSTEEDE	BIRMOERSTRAAT 34	THE HAGUE	10OCT1990
29834248	A.D.M. BRYCESON	44 PRINCESS GATE, HYDE PARK	LONDON, SW7 1PU	29JAN1991
31548901	W.E. MACDONALD	5063 RICHMOND MALL	VANCOUVER, V5T 1L2	19MAR1989
38763919	JORGE RUNNAZZO	SALGUERO 2345	BUENOS AIRES	10DEC1989
39045213	ELISABETE REGIS GUILLAUMON	RUA DONA ANTONIA DE QUEIROS 381	SAO PAULO	18AUG1987
43290587	Y. FUKUDA	3-2-7 ETCHUJMA, KOTO-KU	TOKYO 101	08FEB1979
43459747	R.G. HUGHES	191 LOWER PLENTY ROAD	PRAHRAN, VICTORIA	28JUL1977
46543295		4-3-8 ETCHUJMA, KOTO-KU	TOKYO 102	19APR1989

46783280	LING TAO SOON	356 CLEMENTI ROAD	SINGAPORE	27SEP1984
48345514	J.Q. RIFAIH	POB 8032	RAS AL KHAIMAH	10SEP1991

EMPLOYEES Data

The data in the EMPLOYEES file are shown in Table A1.2 on page 154.

Table A1.2 Employee Data

EMPID	HIREDATE	SALARY	DEPT	JOBCODE	SEX
119012	01JUL1973	42340.58	CSR010	602	F
120591	05DEC1985	31000.55	SHP002	602	F
127845	16JAN1972	75320.34	ACC024	204	M
129540	01AUG1987	56123.34	SHP002	204	F
135673	15JUL1989	46322.58	ACC013	602	F
212916	15FEB1958	52345.58	CSR010	602	F
216382	15JUN1990	34004.65	SHP013	602	F
234967	19DEC1993	17000.00	CSR004	602	M
237642	01NOV1981	43200.34	SHP013	602	M
239185	07MAY1986	57920.66	ACC024	602	M
254896	04APR1990	35000.74	CSR011	204	M
321783	10SEP1972	48931.58	CSR011	602	M
328140	10JAN1980	75000.34	ACC043	1204	F
346917	02MAR1992	46000.33	SHP013	204	F
356134	14JUN1990	62450.75	ACC013	204	F
423286	19DEC1993	32870.66	ACC024	602	M
456910	14JUN1983	45000.58	CSR010	602	M
456921	19AUG1992	33210.04	SHP002	602	M
457232	15JUL1990	55000.66	ACC013	602	M
459287	02NOV1969	50000.00	SHP024	204	M
677890	12DEC1993	37610.00	CSR010	204	F
123456	04APR1994	---	ACC043	1204	---

Employee Data

EMPID	BIRTHDATE	LASTNAME	FIRSTNAME	MIDDLENAME	PHONE
119012	05JAN1951	WOLF- PROVENZA	G.	ANDREA	3467
120591	12FEB1951	HAMMERSTEIN	S.	RACHAEL	3287
127845	25DEC1948	MEDER	VLADIMIR	JORAN	6231
129540	31JUL1965	CHOULAI	CLARA	JANE	3921

EMPID	BIRTHDATE	LASTNAME	FIRSTNAME	MIDDLENAME	PHONE
135673	21MAR1966	HEMESLY	STEPHANIE	J.	6329
212916	29MAY1935	WACHBERGER	MARIE- LOUISE	TERESA	8562
216382	24JUL1968	PURINTON	PRUDENCE	VALENTINE	3852
234967	21DEC1972	SMITH	GILBERT	IRVINE	7274
237642	13MAR1959	BATTERSBY	R.	STEPHEN	8342
239185	28AUG1964	DOS REMEDIOS	LEONARD	WESLEY	4892
254896	06APR1954	TAYLOR- HUNYADI	ITO	MISHIMA	1231
321783	03JUN1940	GONZALES	GUILLERMO	RICARDO	3642
328140	02JUN1956	MEDINA- SIDONIA	MARGARET	ROSE	5901
346917	15MAR1955	SHIEKELESLAM	SHALA	Y.	8745
356134	25OCT1965	DUNNETT	CHRISTINE	MARIE	4213
423286	31OCT1969	MIFUNE	YUKIO	TOSHIRO	3278
456910	24SEP1958	ARDIS	RICHARD	BINGHAM	4351
456921	12MAY1967	KRAUSE	KARL-HEINZ	G.	7452
457232	15OCT1968	LOVELL	WILLIAM	SINCLAIR	6321
459287	05JAN1939	RODRIGUES	JUAN	M.	5879
677890	24APR1970	NISHIMATSU- LYNCH	CAROL	ANNE	6245
123456	----	VARGAS	CHRIS	J.	---

INVOICE Data

The data in the INVOICE file are shown in Table A1.3 on page 155.

Table A1.3 Invoice Data

INVOICENUM	BILLED TO	AMTBILLED	COUNTRY	AMOUNT IN US	BILLED BY	BILLED ON	PAID ON
11270	39045213	1340738760.90	Brazil	2256870.00	239185	05OCT1998	18OCT1998
11271	18543489	11063836.00	USA	11063836.00	457232	05OCT1998	11OCT1998
11273	19783482	252148.50	USA	252148.50	239185	06OCT1998	11NOV1998
11276	14324742	1934460.00	USA	1934460.00	135673	06OCT1998	20OCT1998
11278	14898029	1400825.00	USA	1400825.00	239185	06OCT1998	19OCT1998
11280	39045213	1340738760.90	Brazil	2256870.00	423286	07OCT1998	20OCT1998
11282	19783482	252148.50	USA	252148.50	457232	07OCT1998	25OCT1998
11285	38763919	34891210.20	Argentina	2256870.00	239185	10OCT1998	30NOV1998
11286	43459747	12679156.00	Australia	11063836.00	423286	10OCT1998	----
11287	15432147	252148.50	USA	252148.50	457232	11OCT1998	04NOV1998

INVOICENUM	BILLEDTO	AMTBILLED	COUNTRY	AMOUNTINUS	BILLEDBY	BILLEDON	PAIDON
12051	39045213	1340738760.90	Brazil	2256870.00	457232	02NOV1998	----
12102	18543489	11063836.00	USA	11063836.00	239185	17NOV1998	----
12263	19783482	252148.50	USA	252148.50	423286	05DEC1998	----
12468	14898029	1400825.00	USA	1400825.00	135673	24DEC1998	02JAN1999
12471	39045213	1340738760.90	Brazil	2256870.00	457232	27DEC1998	----
12476	38763919	34891210.20	Argentina	2256870.00	135673	24DEC1998	----
12478	15432147	252148.50	USA	252148.50	423286	24DEC1998	02JAN1999

ORDERS Data

The data in the ORDERS file are shown in Table A1.4 on page 156.

The data in the SPECINSTR column are shown truncated in some cases. The full text is

Customer agrees to accept any liabilities
that may arise from the use of this product.
If the customer is sued, the customer agrees
not to countersue us.

Table A1.4 Orders Data

ORDERNUM	STOCKNUM	LENGTH	FABCHARGES	SHIPTO	DATEORDERED
11269	9870	690	---19876078	03OCT1998	---
11270	1279	1750	2256870	39045213	03OCT1998
11271	8934	110	11063836.00	18543489	03OCT1998
11272	3478	1000	---	29834248	03OCT1998
11273	2567	450	252148.50	19783482	04OCT1998
11274	4789	1000	---	15432147	04OCT1998
11275	3478	1000	---	29834248	04OCT1998
11276	1279	1500	1934460.00	14324742	04OCT1998
11277	8934	100	10058033.00	31548901	05OCT1998
11278	2567	2500	1400825.00	14898029	05OCT1998
11279	9870	650	---	48345514	05OCT1998
11280	1279	1750	2256870.00	39045213	06OCT1998
11281	8934	110	11063836.00	18543489	06OCT1998
11282	2567	450	252148.50	19783482	06OCT1998
11283	9870	690	---	18543489	07OCT1998
11284	3478	1000	---	24589689	07OCT1998
11285	1279	1750	256870.00	38763919	07OCT1998
11286	8934	110	11063836.00	43459747	07OCT1998
11287	2567	450	252148.50	15432147	07OCT1998

ORDERNUM	STOCKNUM	LENGTH	FABCHARGES	SHIPTO	DATEORDERED
11290	9870	690	---	14324742	10OCT1998
11969	9870	690	---	19876078	25OCT1998
12051	1279	1750	2256870.00	39045213	
12102	8934	110	11063836.00	18543489	15NOV1998
12160	3478	1000	---	29834248	19NOV1998
12263	2567	450	252148.50	19783482	01DEC1998
12464	4789	---	15432147	23DEC1998	212916
	1000				
12465	3478	1000	---	29834248	23DEC1998
12466	1279	1500	1934460.00	14324742	23DEC1998
12467	8934	100	10058033.00	31548901	23DEC1998
12468	2500	1400825.00	14898029	23DEC1998	03JAN1999
2567					
12470	9870	650	---	48345514	23DEC1998
12471	1279	1750	2256870.00	39045213	23DEC1998
12472	8934	110	11063836.00	18543489	23DEC1998
12473	2567	450	252148.50	19783482	23DEC1998
12474	9870	690	---	18543489	23DEC1998
12475	3478	1000	---	24589689	23DEC1998
12476	1279	1750	2256870.00	38763919	23DEC1998
12477	8934	110	11063836.00	43459747	23DEC1998
12478	2567	450	252148.50	15432147	23DEC1998
12479	9870	690	---	14324742	23DEC1998
ORDERNUM	SHIPPED	TAKENBY	PROCESSDBY	SPECINSTR	
11269	212916				
11270	19Oct1998	321783	237642	Customer agrees to a	
11271	13OCT1998	456910	456921	---	
11272	---	234967	---	---	
11273	14NOV1998	119012	216382	---	
11274	---	212916	---	---	
11275	---	234967	---	---	
11276	21OCT1998	321783	120591	Customer agrees to a	
11277	---	456910	---	---	
11278	20OCT1998	119012	456921	---	
11279	---	212916	---	---	
11280	21OCT1998	321783	237642	Customer agrees to a	
11281	27OCT1998	456910	216382	---	

ORDERNUM	SHIPPED	TAKENBY	PROCESSDBY	SPECINSTR
11282	26OCT1998	119012	456921	---
11283	---	212916	---	---
11284	---	234967	---	---
11285	02DEC1998	321783	120591	Customer agrees to a
11286	03NOV1998	456910	237642	---
11287	07NOV1998	119012	216382	---
11290	---	212916	---	Customer agrees to certain limitations.
11969	---	212916	---	---
12051	31OCT1998	---	321783	---
12102	---	456910	---	---
12160	---	234967	---	Customer agrees to pay in full.
12263	---	119012	---	---
12464	---	---	---	---
12465	---	234967	---	---
12466	---	321783	---	Customer agrees to a
12467	---	456910	---	---
12468	119012	120591	---	---
2567				
12470	---	212916	---	---
12471	---	321783	---	Customer agrees to a
12472	03JAN1999	456910	237642	---
12473	---	119012	---	---
12474	---	212916	---	---
12475	---	234967	---	---
12476	03JAN1999	321783	456921	Customer agrees to a
12477	---	456910	---	---
12478	03JAN1999	119012	216382	---
12479	---	212916	---	---

SPECPROD Data

The data in the SPECPROD file are shown in Table A1.5 on page 158.

Table A1.5 Special Products Data

PRODUCED	WEIGHT		FIBER NAME	FIBER SIZE	
2356	+8.967499730	E- 01	nylon	+6.780000000	E-13
4789	+7.967500090	E- 01	dacron	+5.780000000	E-13

PRODUCED	WEIGHT		FIBER NAME	FIBER SIZE	
9870	+6.967499850	E- 01	polyester	+4.760000000	E-13
3478	+9.949499960	E- 01	olefin	+9.880000000	E-13
9678	+6.942499880	E- 01	cotton	+3.420000000	E-13
3456	+1.675000040	E- 02	silk	+2.678000000	E-11
8934	+1.429999950	E- 03	gold	+2.380000000	E-12
2567	+1.258500220	E- 01	fiberglass	+5.188000000	E-11
1279	+1.278899910	E- 01	asbestos	+6.347600000	E-10

PRODUCED	COST	PER UNIT	WIDTH
2356	---	---	---
4789	---	---	---
9870	---	---	---
3478	---	sq yd	---
9678	---	---	---
3456	---	---	---
8934	100580.33	cm	+2.255999760
2567	560.33	m	+1.205000000
1279	1289.64	m	+2.227550050

SAS Data Files

This section describes the SAS data files used in examples in this documentation. It gives the SAS statements that created each data file and shows the output from the PRINT procedure.

DLIB.BIRTHDAY SAS Data File

The SAS data file DLIB.BIRTHDAY is created with the following SAS statements:

```
libname dlib 'Your-SAS-data-library';
data dlib.birthday;
  input empid birthdat date7.
        lastname $18.
        firstnam $15.
        phone $4.;
datalines;
459287 05JAN39 RODRIGUES      JUAN      5879
127845 25DEC48 MEDER          VLADIMIR 6231
254896 06APR54 TAYLOR-HUNYADI  ITO       0231
;
run;
```

The following PRINT procedure lists the data shown in Output A1.1 on page 160:

```
proc print data=dlib.birthday;
  format birthdat date9.;
```

```

    title 'DLIB.BIRTHDAY Data File';
run;

```

Output A1.1 Data in SAS Data File DLIB.BIRTHDAY

DLIB.BIRTHDAY Data File					
OBS	EMPID	BIRTHDAT	LASTNAME	FIRSTNAM	PHONE
1	459287	05JAN1939	RODRIGUES	JUAN	5879
2	127815	25DEC1948	MEDER	VLADIMIR	6231
3	254196	06APR1954	TAYLOR-HUNYADI	ITO	0231

DLIB.OUTOFSTK SAS Data File

The SAS data file DLIB.OUTOFSTK is created with the following SAS statements:

```

libname dlib 'Your-SAS-data-library';
data dlib.outofstk;
    input fibernam $8. fibernum;
    datalines;
olefin    3478
gold      8934
dacron    4789
;

```

The following PRINT procedure lists the data shown in Output A1.2 on page 160:

```

proc print data=dlib.outofstk;
    title 'SAS Data File DLIB.OUTOFSTK';
run;

```

Output A1.2 Data in SAS Data File DLIB.OUTOFSTK

SAS Data File DLIB.OUTOFSTK		
OBS	FIBERNAM	FIBERNUM
1	olefin	3478
2	gold	8934
3	dacron	4789

DLIB.TEMPEMPS SAS Data File

The SAS data file DLIB.TEMPEMPS is created with the following PROC SQL statements:

```
libname dlib 'Your-SAS-data-library';
proc sql;
  create table dlib.tempemps
    (label='Student interns',
     empid num, hiredate date format=date9.,
     dept char(6), gender char(1),
     lastname char(18), firstnam char(15),
     middlena char(15), familyid num);

  insert into dlib.tempemps
    values(765111,'04MAY1998'd,'CSR011','M',
          'NISHIMATSU-LYNCH','RICHARD',
          'ITO',677890)
    values(765112,'04MAY1998'd,'CSR010','M',
          'SMITH','ROBERT','MICHAEL',234967)
    values(219776,'15APR98'd,'ACC024','F',
          'PASTORELLI','ZORA',null,.)
    values(245233,'10APR1998'd,'ACC013','',
          'ALI','SADIQ','H.',.)
    values(245234,'10APR1998'd,'ACC024','F',
          'MEHAILESCU','NADIA','P.',.)
    values(326721,'01MAY1998'd,'SHP002','M',
          'CALHOUN','WILLIS','BEAUREGARD',.);

quit;
```

The following PRINT procedure lists the data shown in Output A1.3 on page 161:

```
options ls=120;
proc print data=dlib.tempemps;
  title 'DLIB.TEMPEMPS Data File';
run;
```

Output A1.3 Data in DLIB.TEMPEMPS

DLIB.TEMPEMPS Data File								
OBS	EMPID	HIREDATE	DEPT	GENDER	LASTNAME	FIRSTNAM	MIDDLENA	FAMILYID
1	765111	04MAY1998	CSR011	M	NISHIMATSU-LYNCH	RICHARD	ITO	677890
2	765112	04MAY1998	CSR010	M	SMITH	ROBERT	MICHAEL	234967
3	219776	15APR1998	ACC024	F	PASTORELLI	ZORA	.	.
4	245233	10APR1998	ACC013		ALI	SADIQ	H.	.
5	245234	10APR1998	ACC024	F	MEHAILESCU	NADIA	P.	.
6	326721	01MAY1998	SHP002	M	CALHOUN	WILLIS	BEAUREGARD	.

DLIB.RATEOFEX SAS Data File

The SAS data file DLIB.RATEOFEX is created with the following SAS statements:

```
libname dlib 'Your-SAS-data-library';
data dlib.rateofex;
  input updated date9.
        currency & $15.
        fgnindol : 8.
        dolinfgn : 11.
        country & $20.;
  format updated date9.
        currency $15.
        fgnindol 8.6
        dolinfgn 11.6
        country $20.;
datalines;
28JUL1998 peso      1.01 0.99 Argentina
28JUL1998 dollar   0.7457 1.3410 Australia
more data lines
;
```

The following PRINT procedure lists the data shown in Output A1.4 on page 163:

```
proc print data=dlib.rateofex;
  title 'Data in SAS Data File DLIB.RATEOFEX';
run;
```

Output A1.4 Data in SAS Data File DLIB.RATEOFEX

Data in SAS Data File DLIB.RATEOFEX					
OBS	UPDATED	CURRENCY	FGNINDOL	DOLINFGN	COUNTRY
1	28JUL1998	peso	1.010000	0.990000	Argentina
2	28JUL1998	dollar	0.745700	1.341000	Australia
3	28JUL1998	schilling	0.095940	10.420000	Austria
4	28JUL1998	dinar	2.652200	0.377100	Bahrain
5	28JUL1998	franc	0.032780	30.510000	Belgium
6	28JUL1998	cruzeiro	0.000260	3872.000000	Brazil
7	28JUL1998	pound	1.919500	0.521000	Britain
8	28JUL1998	dollar	0.841400	1.188500	Canada
9	28JUL1998	peso	0.002835	352.750000	Chile
10	28JUL1998	renminbi	0.182815	5.470000	China
11	28JUL1998	peso	0.001722	580.640000	Columbia
12	28JUL1998	krone	0.175400	5.700500	Denmark
13	28JUL1998	sucre	0.000693	1443.000000	Ecuador
14	28JUL1998	markka	0.246490	4.057000	Finland
15	28JUL1998	franc	0.199980	5.000500	France
16	28JUL1998	mark	0.675400	1.480500	Germany
17	28JUL1998	drachma	0.005491	182.100000	Greece
18	28JUL1998	dollar	0.129190	7.740500	Hong Kong
19	28JUL1998	forint	0.013139	76.110000	Hungary
20	28JUL1998	rupee	0.035650	28.050000	India
21	28JUL1998	rupiah	0.000493	2029.510000	Indonesia
22	28JUL1998	punt	1.802600	0.554800	Ireland
23	28JUL1998	shekel	0.406500	2.460000	Israel
24	28JUL1998	lira	0.000892	1120.500000	Italy
25	28JUL1998	yen	0.007843	127.500000	Japan
26	28JUL1998	dinar	1.527700	0.654600	Jordan
27	28JUL1998	dinar	3.420600	0.292400	Kuwait
28	28JUL1998	pound	0.000503	1990.000000	Lebanon
29	28JUL1998	ringgit	0.400000	2.500300	Malaysia
30	28JUL1998	lira	3.344500	0.299000	Malta
31	28JUL1998	peso	0.000321	3114.510000	Mexico
32	28JUL1998	guilder	0.598900	1.669800	Netherlands
33	28JUL1998	dollar	0.546100	1.831200	New Zealand
34	28JUL1998	krone	0.171800	5.819500	Norway
35	28JUL1998	rupee	0.040000	25.000000	Pakistan
36	28JUL1998	new sol	0.839000	1.190000	Peru
37	28JUL1998	peso	0.040900	24.450000	Philippines
38	28JUL1998	zloty	0.000077	12959.01000	Poland
39	28JUL1998	escudo	0.007949	125.800000	Portugal
40	28JUL1998	riyal	0.267380	3.740000	Saudi Arabia
41	28JUL1998	dollar	0.619000	1.615500	Singapore
42	28JUL1998	rand	0.362300	2.759800	South Africa
43	28JUL1998	won	0.001270	787.400000	South Korea
44	28JUL1998	peseta	0.010612	94.230000	Spain
45	28JUL1998	krona	0.186000	5.376000	Sweden
46	28JUL1998	franc	0.763400	1.310000	Switzerland
47	28JUL1998	dollar	0.039714	25.180000	Taiwan
48	28JUL1998	baht	0.039450	25.350000	Thailand
49	28JUL1998	lira	0.000144	6938.000000	Turkey
50	28JUL1998	dirham	0.272300	3.672500	United Arab
51	28JUL1998	new peso	0.000321	3120.010000	Uruguay
52	28JUL1998	bolivar	0.015130	66.090000	Venezuela

The DLIB.RATEOFEX data is used primarily in the Version 6 compatibility examples.

Glossary

This glossary defines SAS software terms that are used in this document as well as terms that relate specifically to SAS/ACCESS software.

access descriptor

a SAS/ACCESS file that describes data to SAS software that is in a PC file. You use an access descriptor as a master descriptor file from which to create view descriptors. See also view and view descriptor.

browsing data

the process of viewing the observations in a file. Depending on how the file is accessed, observations may be viewed one at a time or as a group in a tabular format. You cannot update data that you are browsing.

column

a vertical component of a PC file. Each column has a unique name and contains data of a specific type and with certain attributes. A column is analogous to a variable in SAS terminology.

column function

an operation that is computed over each value in the column that is named as the argument of the function. For example, AVG (SALARY) is a column function.

data type

an attribute of every column in a table. The data type indicates to the operating environment how much physical storage to set aside for the column and the type of data that the column contains. It is similar to the type attribute of SAS variables.

data value

in SAS software, a unit of character or numeric information in a SAS data set. A data value represents one variable in an observation.

database

an organized collection of related data. In most relational database management systems, a database contains objects such as tables, views, and indexes.

database field

a vertical component of a dBASE .DBF file that contains data of a specific type with certain attributes. A database field is analogous to a variable in SAS terminology.

database file

a two-dimensional system of representing data in records and fields.

database management system (DBMS)

an integrated software package that enables you to create and manipulate data in the form of databases. See also relational database management system.

editing data

the process of viewing a file with the ability to change its data. Depending on how the file is accessed, observations may be viewed one at a time or as a group in a tabular format.

engine

a part of SAS software that reads from or writes to a file. Each engine allows SAS software to access files that have a particular format. There are several types of engines. See also interface view engine.

file

a collection of related records that are treated as a unit. SAS files are processed and controlled through SAS software and are stored in a SAS data library.

format

an instruction that SAS software uses to display or write each value of a variable. Some formats are supplied by SAS software. Other formats can be written by the user with the FORMAT procedure in base SAS software or created using SAS/TOOLKIT software. In SAS/ACCESS software, the default formats vary according to the interface product.

index

(1) in SAS software, a component of a SAS data set that enables SAS software to access observations in the SAS data set quickly and efficiently. The purpose of SAS indexes is to optimize WHERE-clause processing and to facilitate BY-group processing. (2) in dBASE, a named object that directs the database management system (DBMS) to the storage location of a particular data value for a given column. These indexes are also used to optimize WHERE-clause processing and join processing. SAS software cannot use dBASE indexes in data retrieval.

informat

a pattern that SAS software uses to determine how values that are entered in variable fields should be interpreted. SAS software provides a set of standard informats and also enables you to define your own custom informats.

interface view engine

a SAS software engine that retrieves data directly from files that have been formatted by other software vendors.

libref

the name that is temporarily associated with a SAS data library. For example, in the name SASUSERS.ACCOUNTS, the name SASUSER is the libref. You assign a libref with a LIBNAME statement or with operating system control language.

member

a SAS file in a SAS data library.

member name

a name that is given to a SAS file in a SAS data library.

member type

a name assigned by SAS software that identifies the type of information stored in a SAS file. Member types include ACCESS, DATA, CATALOG, PROGRAM, and VIEW.

missing value

a value in SAS software that indicates that no data are stored in the variable for the current observation. By default, SAS software represents a missing numeric value with a single period, and a missing character value is represented by a blank space.

observation

the horizontal component of a SAS data file. An observation is a collection of data values that are associated with a single entity, such as a customer or state. Each observation contains one data value for each variable in the data file. An observation is analogous to a row in a PC file.

PROC SQL view

a SAS data set (of type VIEW) that is created by the SQL procedure. A PROC SQL view contains no data; instead, it stores the information that is required to read data values from its underlying files, which can include SAS data files, SAS/ACCESS views, DATA step views, or other PROC SQL views. When executed, a PROC SQL view's output can be either a subset or a superset of one or more underlying files. However, in the current release, you cannot reference a PROC SQL view to update its underlying data. See also view.

record

in a dBASE database file, the horizontal component. It is analogous to a SAS observation.

relational database management system

a database management system that organizes and accesses data according to relationships between data items. dBASE IV is a relational database management system.

row

the horizontal component of a PC file. A row is analogous to a SAS observation.

SAS data file

one of the forms of a SAS data set that was implemented in Version 6 and later of SAS software. A SAS data file contains both the data values and the descriptor information that is associated with the data, such as the variable attributes. In previous releases of SAS software, all SAS data sets were SAS data files. SAS data files are of member type DATA. In SAS software, a PROC SQL table is a SAS data file.

SAS data library

a collection of one or more SAS files that are recognized by SAS software and that are referenced and stored as a unit. Each file is a member of the library.

SAS data set

(1) descriptor information and its related data values, organized as a table of observations and variables that can be processed by SAS software. A SAS data set can be either a SAS data file or a SAS data view. (2) in comparison to database management systems, a collection of information that is stored as a unit under SAS software. A SAS data set is arranged in a rectangular, two-dimensional format. Each item in a SAS data set is called a data value. Data values in a row compose an observation, and those in a column compose a variable. See also SAS data file and SAS data view.

SAS data view

one of the forms of a SAS data set that were implemented in Version 6 and later of SAS software. A SAS data view contains only the descriptor and other information that is required to retrieve the data values from other data sources. PROC SQL views, SAS/ACCESS views, and DATA step views are considered SAS data views. SAS data views are of member type VIEW.

SAS/ACCESS views

See SAS data view and view descriptor.

Structured Query Language (SQL)

the standardized, high-level query language that is used in relational database management systems to create and manipulate database management system objects. SAS software implements SQL through the SQL procedure.

variable

a column in a SAS data set. A variable is a set of data values that describe a given characteristic across all observations. In the ACCESS procedure, variables are created from the PC files' columns or fields.

view

a definition of a virtual data set. The definition is named and stored for later use. This file contains no data but describes or defines data that are stored elsewhere. See also PROC SQL view, SAS data view, and view descriptor.

view descriptor

a SAS/ACCESS file that defines all or a subset of the database management system (DBMS) data that are described by an access descriptor. See also access descriptor.

windowing procedure

a procedure that can use interactive windows to perform a SAS software task. For example, FSVIEW is a windowing procedure.

The correct bibliographic citation for this manual is as follows: SAS Institute Inc., *SAS/ACCESS[®] Software for PC File Formats: Reference, Version 8*, Cary, NC: SAS Institute Inc., 1999.

SAS/ACCESS[®] Software for PC File Formats: Reference, Version 8

Copyright © 1999 by SAS Institute Inc., Cary, NC, USA.

ISBN 1-58025-544-2

All rights reserved. Produced in the United States of America. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, or otherwise, without the prior written permission of the publisher, SAS Institute Inc.

U.S. Government Restricted Rights Notice. Use, duplication, or disclosure of the software and related documentation by the U.S. government is subject to the Agreement with SAS Institute and the restrictions set forth in FAR 52.227-19 Commercial Computer Software-Restricted Rights (June 1987).

SAS Institute Inc., SAS Campus Drive, Cary, North Carolina 27513.

1st printing, October 1999

SAS[®] and all other SAS Institute Inc. product or service names are registered trademarks or trademarks of SAS Institute Inc. in the USA and other countries. [®] indicates USA registration.

Other brand and product names are registered trademarks or trademarks of their respective companies.

The Institute is a private company devoted to the support and further development of its software and related services.