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EXERCISE 3 UNIT 4

1: Import data

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Table (3 fields, 67,109 records) #1

Table Annotations

	CUSTOMER_ID	PURCHASE_ID	ORDERDATE
1	723	707867026	2008-03-01
2	723	707867024	2009-07-02
3	725	708270082	2005-09-14
4	725	708270077	2005-09-24
5	725	708270079	2006-11-08
6	725	708270086	2007-02-27
7	726	708477065	2005-01-14
8	726	708477054	2005-08-27
9	726	708477050	2007-12-26
10	726	708477059	2008-04-11
11	726	708477045	2010-01-29
12	726	708477047	2010-06-14
13	729	708569840	2006-07-13
14	734	708595177	2008-09-28
15	734	708595174	2010-03-12
16	734	708595172	2010-01-23
17	735	708637782	2006-01-12
18	735	708637784	2006-11-17
19	735	708637787	2009-05-26
20	746	708647052	2005-04-29
21	746	708647050	2008-01-28
22	747	708837955	2008-08-15
23	749	708974921	2007-11-20
24	749	708974919	2009-02-08
25	750	709124899	2005-07-09
26	750	709124896	2009-02-03
27	750	709124894	2009-02-23
28	754	709180989	2007-04-12
29	754	709180991	2010-04-29
30	758	709217404	2005-01-27
31	758	709217402	2008-01-23
32	758	709217407	2010-10-30
33	763	709241931	2011-06-30
34	767	709402000	2009-05-04
35	768	709540470	2008-10-30
36	769	709703126	2005-04-12
37	769	709703124	2010-08-22
38	771	709832508	2005-03-14
39	771	709832503	2006-08-02
40	771	709832496	2008-04-28
41	771	709832514	2009-04-27
42	771	709832499	2009-11-07
43	771	709832494	2010-11-15
44	772	709989849	2007-12-28
45	772	709989847	2008-03-26
46	774	710080353	2005-04-30
47	774	710080351	2008-06-21
48	782	710243205	2010-04-16

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Table (4 fields, 7,426 records) #3

Table Annotations

	PURCHASE_ID	ITEM_ID	PRODUCT_ID	PRICE
1	5723	16243	10726	197.040
2	5723	16643	10736	143.280
3	5723	15183	10746	129.840
4	5723	12442	10748	478.320
5	5724	15244	10732	114.840
6	5726	17640	10725	217.770
7	5727	14843	10723	103.480
8	5727	11494	10733	164.100
9	5727	10942	10742	198.550
10	5729	17131	10723	243.480
11	5729	18058	10730	279.060
12	5729	17320	10732	462.980
13	5730	17384	10738	672.390
14	5730	14449	10752	262.960
15	5731	13120	10731	43.940
16	5731	18201	10736	702.900
17	5732	14202	10731	45.620
18	5732	15940	10736	311.040
19	5732	14529	10747	260.960
20	5732	13400	10748	322.920
21	5734	16808	10730	460.000
22	5736	14193	10724	296.950
23	5736	13599	10747	308.460
24	5737	18262	10723	413.350
25	5737	15915	10725	486.900
26	5737	18351	10731	299.320
27	5738	15948	10734	296.370
28	5739	14698	10742	30.450
29	5740	14587	10737	201.880
30	5741	15278	10741	319.200
31	5743	13011	10747	30.570
32	5744	14427	10744	75.520
33	5745	13764	10747	60.560
34	5746	13768	10729	389.000
35	5746	16540	10738	112.280
36	5747	16269	10737	296.700
37	5747	16460	10752	228.080
38	5748	15546	10736	274.400
39	5748	15610	10739	803.840
40	5748	15387	10745	165.060
41	5748	17858	10751	35.970
42	5749	15579	10740	288.630
43	5751	14353	10724	542.400
44	5751	17425	10749	202.440
45	5753	13227	10727	883.100
46	5753	16161	10735	3.260
47	5754	16926	10738	247.230
48	5754	17166	10747	243.650
49	5755	14123	10723	2.060

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Table (4 fields, 162,308 records) #1

Table Annotations

	PURCHASE_ID	ITEM_ID	PRODUCT_ID	PRICE
50	709124894	3961736888	10723	103.829
51	709124894	6968605706	10731	248.155
52	709124894	3381169640	10733	489.894
53	709124894	2661824219	10745	218.115
54	709124896	2425563739	10725	122.902
55	709124896	3401035015	10743	177.473
56	709124899	5132709309	10745	5.000
57	709180989	4111086975	10738	218.258
58	709180991	4811209254	10732	187.028
59	709217402	2820247795	10744	134.480
60	709217402	4059546003	10750	179.966
61	709217404	5280138902	10723	29.253
62	709217404	3708461011	10730	75.154
63	709217404	5461542282	10745	154.800
64	709217407	3508438221	10745	101.388
65	709217407	4499104787	10747	97.171
66	709217407	2429578776	10752	21.681
67	709241931	4586241359	10733	524.869
68	709241931	3362189910	10737	385.259
69	709241931	4752848943	10738	777.145
70	709402000	2545737026	10742	139.343
71	709540470	4474424011	10733	60.563
72	709540470	9231069230	10742	107.757
73	709540470	5549435105	10751	11.115
74	709703124	5052053060	10729	275.578
75	709703124	3559415984	10732	284.411
76	709703124	3262347596	10746	107.604
77	709703126	2217122699	10728	138.977
78	709703126	5720328122	10736	216.685
79	709832494	4461187851	10732	110.572
80	709832494	5663059323	10737	105.550
81	709832496	4453457964	10734	7.891
82	709832496	5165669904	10751	48.617
83	709832496	4799768600	10752	162.785
84	709832499	3490063901	10731	146.837
85	709832499	3582363421	10752	45.359
86	709832499	3457522994	18383	25.000
87	709832503	4605087362	10727	24.659
88	709832503	3141724728	10729	25.922
89	709832503	3003087759	10747	104.374
90	709832503	5918331446	10748	141.268
91	709832508	3995859676	10726	134.057
92	709832508	4629736639	10741	69.472
93	709832508	3783243096	10749	52.160
94	709832514	2010593714	10743	298.430
95	709989847	2911547641	10738	41.995
96	709989849	2868102404	10727	117.542
97	709989849	1434093524	10739	219.391
98	709989849	2864002849	10742	42.077

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Table (2 fields, 21,000 records) #2

Table Annotations

	customer_id mailing
1	723.000 XL original orange baseball cap
2	723.000 XS original red soccer shirt
3	724.000 XL original orange baseball cap
4	725.000 XL original orange baseball cap
5	726.000 XL original orange baseball cap
6	727.000 Standard tennisracket
7	727.000 XL original orange baseball cap
8	727.000 XS original red soccer shirt
9	728.000 XL original orange baseball cap
10	729.000 XL original orange baseball cap
11	730.000 Standard tennisracket
12	730.000 XL original orange baseball cap
13	731.000 XL original orange baseball cap
14	731.000 XS original red soccer shirt
15	732.000 XL original orange baseball cap
16	732.000 XS original red soccer shirt
17	733.000 XL original orange baseball cap
18	733.000 XS original red soccer shirt
19	734.000 XL original orange baseball cap
20	734.000 XS original red soccer shirt
21	735.000 XL original orange baseball cap
22	736.000 XL original orange baseball cap
23	736.000 XS original red soccer shirt
24	737.000 Standard tennisracket
25	737.000 XL original orange baseball cap
26	738.000 XL original orange baseball cap
27	739.000 XL original orange baseball cap
28	740.000 Standard tennisracket
29	740.000 XL original orange baseball cap
30	741.000 XL original orange baseball cap
31	742.000 XL original orange baseball cap
32	742.000 XS original red soccer shirt
33	743.000 XL original orange baseball cap
34	743.000 XS original red soccer shirt
35	744.000 XL original orange baseball cap
36	745.000 XL original orange baseball cap
37	746.000 Standard tennisracket
38	746.000 XL original orange baseball cap
39	747.000 Standard tennisracket
40	747.000 XL original orange baseball cap
41	748.000 XL original orange baseball cap
42	749.000 XL original orange baseball cap
43	750.000 XL original orange baseball cap
44	751.000 XL original orange baseball cap
45	751.000 XS original red soccer shirt
46	752.000 XL original orange baseball cap
47	753.000 XL original orange baseball cap
48	753.000 XS original red soccer shirt
49	754.000 XL original orange baseball cap

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ACME customers

Table

ACME purchases 1999 ..

Table

ACME purchases 2005 ..

Table

ACME orderlines 1999..

Table

ACME orderlines 2005..

Table

ACME mailing history..

Table

ACME postal code dat..

Table

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Table (4 fields, 4,983 records) #1

FileEditGenerate

TableAnnotations

	POSTAL_CODE	PCT_WORKING	PCT_HOUSE_OWNERS	PCT_WITH_CAR
1	1001EZ	76	60	87
2	1001FA	76	60	88
3	1001GB	70	48	88
4	1001PJ	76	59	90
5	1001PR	86	69	91
6	1002AJ	88	72	92
7	1002EH	76	59	92
8	1002GZ	79	67	91
9	1002JC	76	57	87
10	1002JX	80	64	92
11	1002MP	83	67	91
12	1002VW	83	70	92
13	1002WX	80	67	92
14	1002YB	73	57	93
15	1003IX	71	56	89
16	1003QH	80	62	90
17	1003QN	88	74	90
18	1003TK	91	72	92
19	1003UB	67	49	93
20	1004CR	80	60	88
21	1004IB	81	65	89
22	1004PO	84	70	94
23	1004XV	85	70	88
24	1005GB	81	64	87
25	1005GR	77	62	88
26	1005SZ	70	55	95
27	1006FL	84	71	94
28	1006KL	70	54	96
29	1006VP	75	63	90
30	1006WP	75	61	92
31	1007AE	74	58	85
32	1007HU	76	63	86
33	1007JU	82	65	86
34	1007TN	83	70	90
35	1007YV	79	64	90
36	1008CD	75	60	89
37	1008DS	82	66	90
38	1008GT	71	61	92
39	1008IP	78	65	90
40	1008KU	82	66	96
41	1008LJ	82	66	91
42	1008NV	72	57	91
43	1008YE	84	69	89
44	1008YS	81	64	89
45	1008YZ	74	57	91
46	1009SH	80	65	92
47	1009TV	73	59	90
48	1009ZI	80	66	89
49	1009ZS	87	72	92

OK

2. Determine the relationships between datasets.

The screenshot displays the IBM SPSS Modeler interface. On the left, a workflow diagram shows several data sources (ACME customers, ACME purchases 1999..., ACME purchases 2005..., ACME orderlines 1999..., ACME orderlines 2005..., ACME mailing history., ACME postal code dat..) connected to a central 'Table' node. A yellow box highlights the 'Table' node, and a text box next to it reads 'Subhanjan Subhasis Das N01431473'.

On the right, a 'Table (3 fields, 3 records) #1' window is open, showing the following data:

	CUSTOMER_ID	PURCHASE_ID	ORDERDATE
1	731	8620	2000-07-21
2	731	6336	2001-11-09
3	731	7583	2003-07-17

Below this, another screenshot shows the same workflow diagram, but with a different 'Table' node highlighted. A yellow box highlights the 'Table' node, and a text box next to it reads 'Subhanjan Subhasis Das N01431473'.

On the right, a 'Table (4 fields, 3 records) #1' window is open, showing the following data:

	PURCHASE_ID	ITEM_ID	PRODUCT_ID	PRICE
1	6336	12976	10724	951.9...
2	6336	17485	10726	12.480
3	6336	15205	10727	587.7...

3. Renaming CUSTOMER_ID

The screenshot shows the IBM SPSS Modeler interface with a workflow on the left and a Filter dialog box in the center. The workflow consists of several data sources (Excel files) connected to Table nodes, with a Filter node in the middle. The Filter dialog box is open, showing the 'Filter' tab. It displays a table with columns: Field, Filter, and Field. The first row shows 'customer_id' in the 'Field' column, 'Filter' in the 'Filter' column, and 'CUSTOMER_ID' in the 'Field' column. The second row shows 'mailing' in the 'Field' column, 'Filter' in the 'Filter' column, and 'mailing' in the 'Field' column. The dialog box also has a 'Preview' button and a 'View current fields' radio button selected.

Workflow steps:

- ACME customers (Excel) → Table
- ACME purchases 1999 .. (Excel) → 731 (Table) → Table
- ACME purchases 2005 .. (Excel) → Table
- ACME orderlines 1999.. (Excel) → 6336 (Table) → Table
- ACME orderlines 2005.. (Excel) → Table
- ACME mailing history.. (Excel) → Filter → Table
- ACME postal code dat.. (Excel) → Table

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The screenshot shows the IBM SPSS Modeler interface with a workflow on the left and a Table preview window on the right. The workflow is identical to the one in the first screenshot. The Table preview window is open, showing a table with columns: CUSTOMER_ID and mailing. The table contains 21,000 records. The preview window also has an 'OK' button.

Workflow steps:

- ACME customers (Excel) → Table
- ACME purchases 1999 .. (Excel) → 731 (Table) → Table
- ACME purchases 2005 .. (Excel) → Table
- ACME orderlines 1999.. (Excel) → 6336 (Table) → Table
- ACME orderlines 2005.. (Excel) → Table
- ACME mailing history.. (Excel) → Filter → Table
- ACME postal code dat.. (Excel) → Table

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Table (2 fields, 21,000 records) #3

	CUSTOMER_ID	mailing
1	723.000	XL original orange baseball cap
2	723.000	XS original red soccer shirt
3	724.000	XL original orange baseball cap
4	725.000	XL original orange baseball cap
5	726.000	XL original orange baseball cap
6	727.000	Standard tennisracket
7	727.000	XL original orange baseball cap
8	727.000	XS original red soccer shirt
9	728.000	XL original orange baseball cap
10	729.000	XL original orange baseball cap
11	730.000	Standard tennisracket
12	730.000	XL original orange baseball cap
13	731.000	XL original orange baseball cap
14	731.000	XS original red soccer shirt
15	732.000	XL original orange baseball cap
16	732.000	XS original red soccer shirt
17	733.000	XL original orange baseball cap
18	733.000	XS original red soccer shirt
19	734.000	XL original orange baseball cap
20	734.000	XS original red soccer shirt
21	735.000	XL original orange baseball cap
22	736.000	XL original orange baseball cap
23	736.000	XS original red soccer shirt
24	737.000	Standard tennisracket
25	737.000	XL original orange baseball cap
26	738.000	XL original orange baseball cap
27	739.000	XL original orange baseball cap
28	740.000	Standard tennisracket
29	740.000	XL original orange baseball cap
30	741.000	XL original orange baseball cap
31	742.000	XL original orange baseball cap
32	742.000	XS original red soccer shirt
33	743.000	XL original orange baseball cap
34	743.000	XS original red soccer shirt
35	744.000	XL original orange baseball cap
36	745.000	XL original orange baseball cap
37	746.000	Standard tennisracket
38	746.000	XL original orange baseball cap
39	747.000	Standard tennisracket
40	747.000	XL original orange baseball cap
41	748.000	XL original orange baseball cap
42	749.000	XL original orange baseball cap
43	750.000	XL original orange baseball cap
44	751.000	XL original orange baseball cap