```sas
/*Ugonna Okengwu*/

title "Section 7.10: Problems 3";
LIBNAME learn "/home/u63417899/BAN130ZBB";

proc import datafile='/home/u63417899/BAN130ZBB/Sales.xls'
out=learn.sales
dbms=xls replace;
sheet='Table1';
run;

title "Selected Employees from Sale";
proc print data=learn.sales;
    where EmpID = '9888' or EmpID = '0177';
    run;

proc print data = learn.sales;
    where EMPID in ('9888' '0177');
run;


title "Section 7.10: Problem 6";
DATA subset;
SET learn.sales;
IF (Region = "North" AND Quantity < 60) OR Customer = "Pet's are Us";
RUN;

proc print data=subset;
run;


/*Section 8.9: Problem 13*/
data money;
    do year = 1 to 999 until (Amount ge 30000);
        Amount + 1000;
        do quarter = 1 to 4;
            Amount + Amount * (.0425/4);
        output;
        end;
    end;
    format Amount dollar10;
run;

title "Listing of Money";
proc print data=money;
run;


/*Section 10.16: Problems 12*/
DATA learn.merged_data;
```

```sas
MERGE learn.demographic_id (RENAME=(ID=Subj)) learn.survey1;
BY Subj;
RUN;

title "Listing of Merged Data";
proc print data=learn.merged_data;
run;


/*Section 10.16: Problems 13*/
proc sort data=learn.demographic_id out=demographic_id;
by ID;
run;

data survey2;
set learn.survey2(rename=(ID=NumID));
ID=put(NumID, Z3.);
drop NumID;
run;

proc sort data=survey2;
by ID;
run;

data combine;
merge demographic_id survey2;
by ID;
run;


/*Section 10.16: Problems 14*/
data Inventory;
set learn.inventory;
run;

proc sort data = Inventory;
by Model;
run;

data price_update;
    Model = 'M567';
    Price = 25.95;
    output;

    Model = 'x999';
    Price = 35.99;
    output;
run;

data New_Prices;
    update Inventory price_update;
```

```
        by Model;
run;

Title 'Inventory with new prices';
proc print data = New_Prices;
run;
```

Selected Employees from Sale

Obs	EmpID	Name	Region	Customer	Item	Quantity	UnitCost	TotalSales
6	0177	Glenda Johnson	East	Food Unlimited	188X	100	6.99	699
7	0177	Glenda Johnson	East	Shop and Drop	144L	100	8.99	899
9	9888	Sharon Lu	West	Cost Cutter's	122	50	5.99	299.5
10	9888	Sharon Lu	West	Pet's are Us	100W	1000	1.99	1990
13	0177	Glenda Johnson	North	Minimart Inc.	777	5	10.5	52.5
14	0177	Glenda Johnson	East	Barco Corporation	733	2	10000	20000

Section 7.10: Problem 6

Obs	EmpID	Name	Region	Customer	Item	Quantity	UnitCost	TotalSales
1	1843	George Smith	North	Barco Corporation	144L	50	8.99	449.5
2	1843	George Smith	North	Minimart Inc.	188S	3	5199	15597
3	1843	George Smith	North	Barco Corporation	908X	1	5129	5129
4	9888	Sharon Lu	West	Pet's are Us	100W	1000	1.99	1990
5	0177	Glenda Johnson	North	Minimart Inc.	777	5	10.5	52.5
6	1843	George Smith	North	Minimart Inc.	188S	3	5199	15597

Listing of Money

Obs	year	Amount	quarter
1	1	1010.63	1
2	1	1021.36	2
3	1	1032.21	3
4	1	1043.18	4
5	2	2064.89	1
6	2	2086.83	2
7	2	2109.00	3
8	2	2131.41	4
9	3	3164.68	1
10	3	3198.31	2
11	3	3232.29	3
12	3	3266.63	4
13	4	4311.97	1
14	4	4357.78	2

Obs	year	Amount	quarter
15	4	4404.08	3
16	4	4450.87	4
17	5	5508.79	1
18	5	5567.32	2
19	5	5626.47	3
20	5	5686.26	4
21	6	6757.30	1
22	6	6829.09	2
23	6	6901.65	3
24	6	6974.98	4
25	7	8059.72	1
26	7	8145.35	2
27	7	8231.90	3
28	7	8319.36	4
29	8	9418.38	1
30	8	9518.45	2
31	8	9619.58	3
32	8	9721.79	4
33	9	10835.71	1
34	9	10950.84	2
35	9	11067.19	3
36	9	11184.78	4
37	10	12314.24	1
38	10	12445.08	2
39	10	12577.31	3
40	10	12710.94	4
41	11	13856.62	1
42	11	14003.85	2
43	11	14152.64	3
44	11	14303.01	4
45	12	15465.61	1
46	12	15629.93	2
47	12	15796.00	3
48	12	15963.83	4
49	13	17144.07	1
50	13	17326.23	2
51	13	17510.32	3
52	13	17696.36	4
53	14	18895.01	1
54	14	19095.77	2
55	14	19298.66	3
56	14	19503.71	4
57	15	20721.56	1
58	15	20941.73	2
59	15	21164.24	3
60	15	21389.11	4
61	16	22626.99	1
62	16	22867.40	2
63	16	23110.37	3

Obs	year	Amount	quarter
64	16	23355.92	4
65	17	24614.70	1
66	17	24876.23	2
67	17	25140.54	3
68	17	25407.66	4
69	18	26688.24	1
70	18	26971.80	2
71	18	27258.38	3
72	18	27548.00	4
73	19	28851.32	1
74	19	29157.87	2
75	19	29467.67	3
76	19	29780.76	4
77	20	31107.81	1
78	20	31438.33	2
79	20	31772.36	3
80	20	32109.94	4

Listing of Merged Data

Obs	Subj	DOB	Gender	Q1	Q2	Q3	Q4	Q5
1	001	10/10/2037	M	1	3	5	4	2
2	002	07/12/1987	F	5	5	4	4	3
3	003	.		2	1	2	1	1
4	004	01/05/2000	M	3	5	1	4	2
5	005	06/04/1966	F	3	3	3	3	3

Inventory with new prices

Obs	Model	Price
1	L776	$159.98
2	M123	$4.59
3	M567	$25.95
4	S776	$1.99
5	S888	$12.99
6	X999	$29.95
7	x999	$35.99

Obs	EmpID	Name	Region	Customer	Item	Quantity	UnitCost	TotalSales
1	1843	George Smith	North	Barco Corporation	144L	50	8.99	449.5
2	1843	George Smith	South	Cost Cutter's	122	100	5.99	599
3	1843	George Smith	North	Minimart Inc.	188S	3	5199	15597
4	1843	George Smith	North	Barco Corporation	908X	1	5129	5129
5	1843	George Smith	South	Ely Corp.	122L	10	29.95	299.5
6	0177	Glenda Johnson	East	Food Unlimited	188X	100	6.99	699
7	0177	Glenda Johnson	East	Shop and Drop	144L	100	8.99	899
8	1843	George Smith	South	Cost Cutter's	855W	1	9109	9109
9	9888	Sharon Lu	West	Cost Cutter's	122	50	5.99	299.5
10	9888	Sharon Lu	West	Pet's are Us	100W	1000	1.99	1990
11	0017	Jason Nguyen	East	Roger's Spirits	122L	500	39.99	19995
12	0017	Jason Nguyen	South	Spirited Spirits	407XX	100	19.95	1995
13	0177	Glenda Johnson	North	Minimart Inc.	777	5	10.5	52.5
14	0177	Glenda Johnson	East	Barco Corporation	733	2	10000	20000
15	1843	George Smith	North	Minimart Inc.	188S	3	5199	15597