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SAS Homework 8
10-26-17

CODE:

```
data midsur;
set work.import;
run;

data q1;
set midsur;
if (Question =: 'Q1_') then output; /*replace Q1_ with Q2_,Q3_,..*/
run;
proc means data = q1 mean std vardef=wgt noprint;
var response;
weight freq2016; output out=qw1(drop=_TYPE_ _FREQ_);
run;
data qw11;
set qw1;
*rename Response = Response2016;
proc sort data=qw11 ;
by _STAT_;
run;
proc means data = q1 mean std vardef=wgt noprint ;
var response;
weight freq2017; output out=qw2(drop=_TYPE_ _FREQ_);
run;
proc sort data=qw2;
by _STAT_;
run;
data qw22;
set qw2;
*rename Response = Response2017;
proc sort data=qw22 ;
by _STAT_;
run;
title1 'Q1_GemOH';
title2 'Base = Fall 2017 Compare = Fall 2016';
proc compare base=qw22 compare=qw11;
id _STAT_;
run;
```

OUTPUT:

Q1_GemOH
Base = Fall 2016 Compare = Fall 2017

```
              The COMPARE Procedure
        Comparison of WORK.QW11 with WORK.QW22
                   (Method=EXACT)

        Value Comparison Results for Variables
```

STAT	||	Response Base Response	Compare Response	Diff.	% Diff
	||				
MEAN	||	3.8095238	3.1923077	-0.6172	-16.2019
STD	||	0.957131	1.2409435	0.2838	29.6524
SUMWGT	||	21	26	5.0000	23.8095

Q2_TAOH
Base = Fall 2016 Compare = Fall 2017

```
              The COMPARE Procedure
        Comparison of WORK.QW11 with WORK.QW22
                   (Method=EXACT)

        Value Comparison Results for Variables
```

STAT	||	Response Base Response	Compare Response	Diff.	% Diff
	||				
MEAN	||	3.7142857	3.3846154	-0.3297	-8.8757
STD	||	0.8247861	1.0029542	0.1782	21.6017
SUMWGT	||	21	26	5.0000	23.8095

Q3_HWDD
Base = Fall 2016 Compare = Fall 2017

```
                    The COMPARE Procedure
              Comparison of WORK.QW11 with WORK.QW22
                       (Method=EXACT)

              Value Comparison Results for Variables
```

	Response			
	Base	Compare		
STAT	Response	Response	Diff.	% Diff
MEAN	3.7619048	3.4615385	-0.3004	-7.9844
STD	1.305839	1.0088367	-0.2970	-22.7442
SUMWGT	21	26	5.0000	23.8095

Q4_DisTo
Base = Fall 2016 Compare = Fall 2017

```
                    The COMPARE Procedure
              Comparison of WORK.QW11 with WORK.QW22
                       (Method=EXACT)

              Value Comparison Results for Variables
```

	Response			
	Base	Compare		
STAT	Response	Response	Diff.	% Diff
MEAN	3.9047619	3.6923077	-0.2125	-5.4409
STD	0.9209086	0.7730674	-0.1478	-16.0538
SUMWGT	21	26	5.0000	23.8095

Q5_Audio
Base = Fall 2016 Compare = Fall 2017

```
                The COMPARE Procedure
        Comparison of WORK.QW11 with WORK.QW22
                    (Method=EXACT)

        Value Comparison Results for Variables
```

STAT	||	Response Base Response	Compare Response	Diff.	% Diff
MEAN	||	3.5714286	2.7307692	-0.8407	-23.5385
STD	||	1.3299276	1.0582167	-0.2717	-20.4305
SUMWGT	||	21	26	5.0000	23.8095

Q6_SASS
Base = Fall 2016 Compare = Fall 2017

```
                The COMPARE Procedure
        Comparison of WORK.QW11 with WORK.QW22
                    (Method=EXACT)

        Value Comparison Results for Variables
```

STAT	||	Response Base Response	Compare Response	Diff.	% Diff
MEAN	||	4.3333333	3.7692308	-0.5641	-13.0178
STD	||	0.6424161	0.890449	0.2480	38.6094
SUMWGT	||	21	26	5.0000	23.8095

Q7_GrdHW
Base = Fall 2016 Compare = Fall 2017

The COMPARE Procedure
Comparison of WORK.QW11 with WORK.QW22
(Method=EXACT)

Value Comparison Results for Variables

STAT	||	Response Base Response	Compare Response	Diff.	% Diff
MEAN	||	4.1904762	3.4615385	-0.7289	-17.3951
STD	||	0.8518354	0.9699631	0.1181	13.8674
SUMWGT	||	21	26	5.0000	23.8095

Q8_MidTe
Base = Fall 2016 Compare = Fall 2017

The COMPARE Procedure
Comparison of WORK.QW11 with WORK.QW22
(Method=EXACT)

Value Comparison Results for Variables

STAT	||	Response Base Response	Compare Response	Diff.	% Diff
MEAN	||	3.6666667	2.8846154	-0.7821	-21.3287
STD	||	1.2472191	1.1873345	-0.0599	-4.8014
SUMWGT	||	21	26	5.0000	23.8095

Q9_TimeL
Base = Fall 2016 Compare = Fall 2017

```
                The COMPARE Procedure
         Comparison of WORK.QW11 with WORK.QW22
                    (Method=EXACT)

         Value Comparison Results for Variables
```

STAT	||	Response Base Response	Compare Response	Diff.	% Diff
MEAN	||	4	3.5384615	-0.4615	-11.5385
STD	||	1.0235326	0.9699631	-0.0536	-5.2338
SUMWGT	||	21	26	5.0000	23.8095

Q10_Over
Base = Fall 2016 Compare = Fall 2017

```
                The COMPARE Procedure
         Comparison of WORK.QW11 with WORK.QW22
                    (Method=EXACT)

         Value Comparison Results for Variables
```

STAT	||	Response Base Response	Compare Response	Diff.	% Diff
MEAN	||	3.952381	3.1923077	-0.7601	-19.2308
STD	||	0.9988656	1.1100669	0.1112	11.1328
SUMWGT	||	21	26	5.0000	23.8095