

Organizing StudentTracker Results using SPSS

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The National Student Clearinghouse (NSC) and StudentTracker

A VERY BRIEF OVERVIEW

What is the NSC and StudentTracker?

- The National Student Clearinghouse provides a number of verification services to universities and colleges across the country, e.g., verifying a student's degree for an employer or attendance for financial aid purposes.
- **StudentTracker** is an additional service offered by the NSC that provides access to a very robust nationwide database of post-secondary enrollment and degree records.

How exactly, does StudentTracker work?

- An Institution uploads a file that contains a list of students to the NSC StudentTracker query system and specifies an explicit search date.
- The NSC will return a file to your institution that contains all of the enrollment activity for students in the original query, occurring after the specified search date.

Some examples of how StudentTracker is used at William Paterson University.

- **Subsequent Enrollment of Accepted Student:** Each Fall we send the list of students who were accepted, yet declined our offer of admission.
- **Non-Returning Student Study:** Each year we send a list of attrited students to find out whether they were transfer-outs or drop-outs and to find out where transfer-outs subsequently enrolled.
- **Success and Academic Progress Rates:** As part of our participation in the VSA College Portrait, we are required to use the NSC to report the “Academic Success and Progress Rates” of our cohorts.

These rates consist of retention and continuation rates of our cohorts at **any** institution. This information helps create a context for our own institutional retention and graduation rates and has been incorporated into our annual Fact Book.

The Obstacle to efficient use of StudentTracker data

While the queries are uploaded to the NSC in a file structure of “one record per student”, the results are received back in a format of “one record per enrollment activity”. This granular file structure offers a high level of detail but takes away the ability to run basic frequency tables without first restructuring the file.

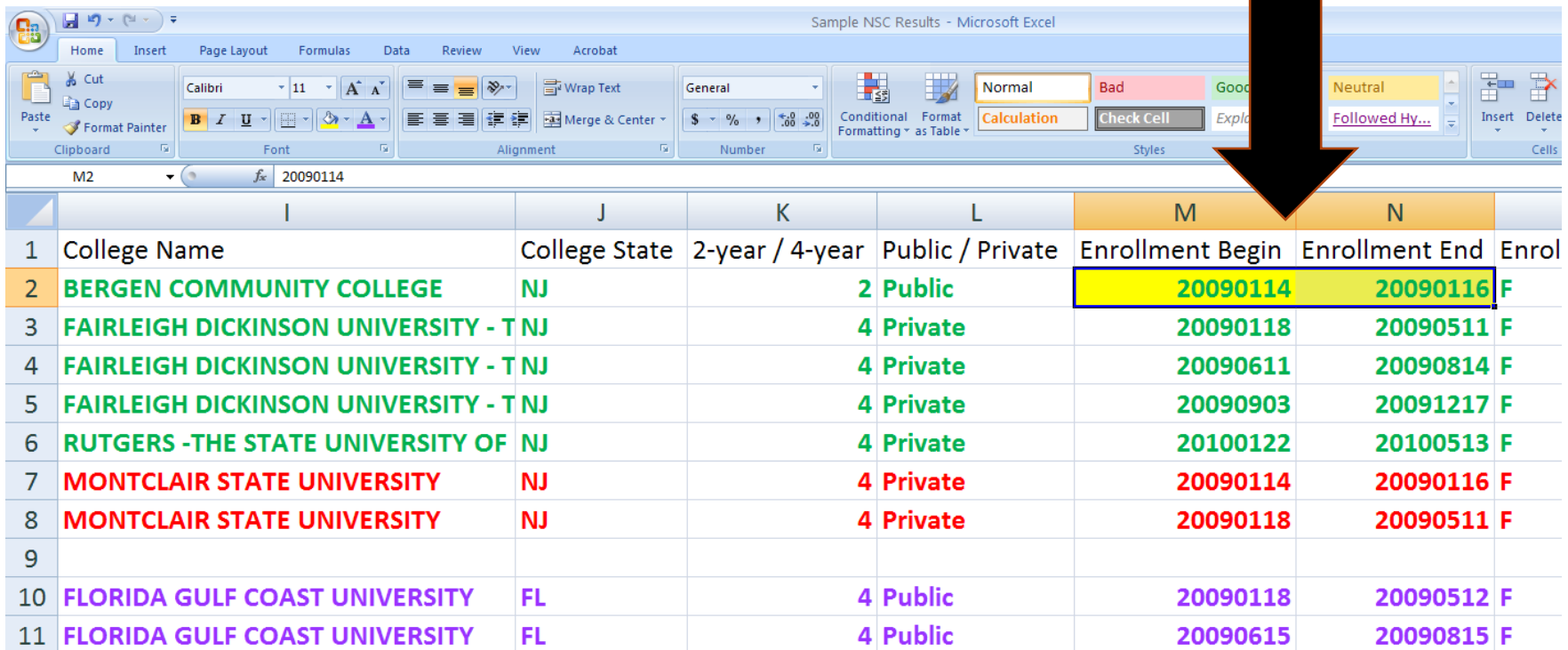
Objective of this presentation

This presentation will give a detailed demonstration on how our office restructures StudentTracker files back into a “one record per student” structure for analysis, using an SPSS syntax program.

Let's Get Started

So what's wrong with this file?

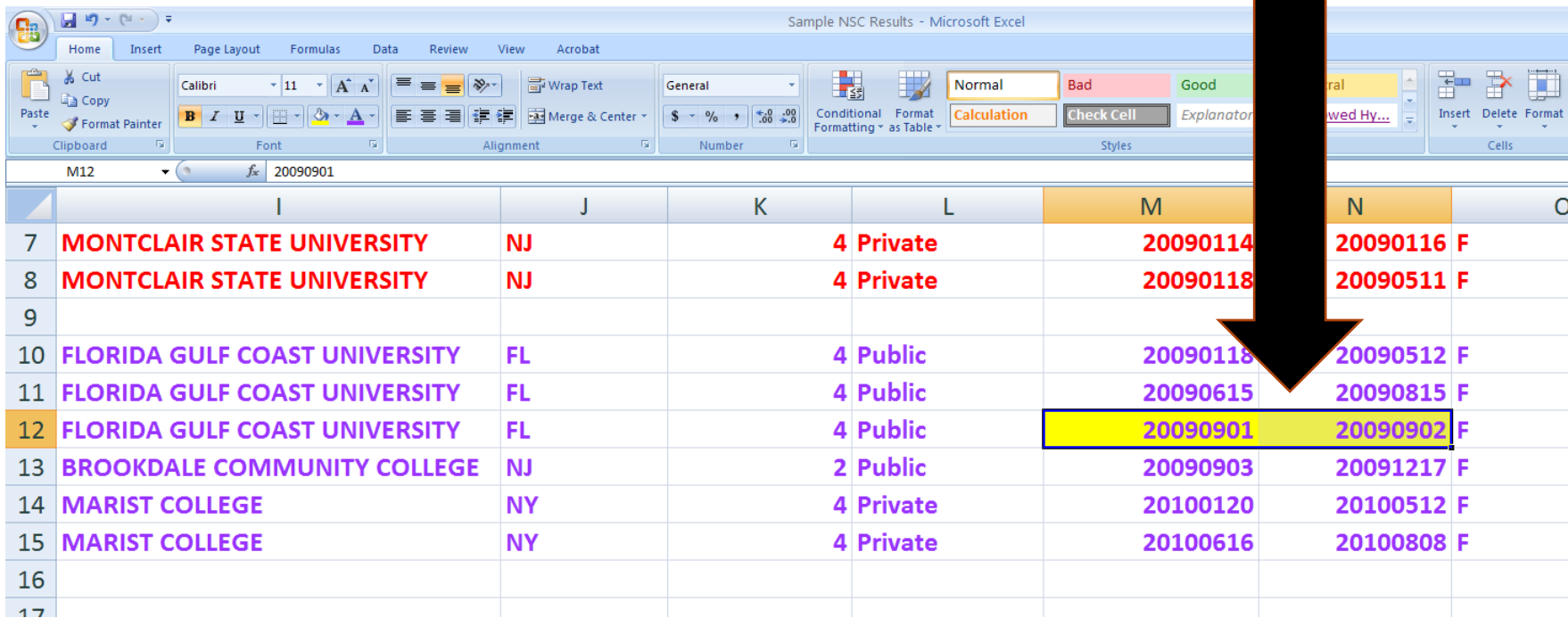
- George was only enrolled for 2 days at Bergen Community College for the Spring 2009 semester.
- In reality he attended Fairleigh Dickinson University in the Spring of 2009



Sample NSC Results - Microsoft Excel

	I	J	K	L	M	N	
1	College Name	College State	2-year / 4-year	Public / Private	Enrollment Begin	Enrollment End	Enrol
2	BERGEN COMMUNITY COLLEGE	NJ		2 Public	20090114	20090116	F
3	FAIRLEIGH DICKINSON UNIVERSITY - T	NJ		4 Private	20090118	20090511	F
4	FAIRLEIGH DICKINSON UNIVERSITY - T	NJ		4 Private	20090611	20090814	F
5	FAIRLEIGH DICKINSON UNIVERSITY - T	NJ		4 Private	20090903	20091217	F
6	RUTGERS -THE STATE UNIVERSITY OF	NJ		4 Private	20100122	20100513	F
7	MONTCLAIR STATE UNIVERSITY	NJ		4 Private	20090114	20090116	F
8	MONTCLAIR STATE UNIVERSITY	NJ		4 Private	20090118	20090511	F
9							
10	FLORIDA GULF COAST UNIVERSITY	FL		4 Public	20090118	20090512	F
11	FLORIDA GULF COAST UNIVERSITY	FL		4 Public	20090615	20090815	F

- The same goes for Stephen. He was only enrolled for 1 day of Summer 2009 at Florida Gulf Coast University.
- In reality he attended Brookdale Community College during the Summer of 2009.



Sample NSC Results - Microsoft Excel

	I	J	K	L	M	N	O
7	MONTCLAIR STATE UNIVERSITY	NJ		4 Private	20090114	20090116	F
8	MONTCLAIR STATE UNIVERSITY	NJ		4 Private	20090118	20090511	F
9							
10	FLORIDA GULF COAST UNIVERSITY	FL		4 Public	20090118	20090512	F
11	FLORIDA GULF COAST UNIVERSITY	FL		4 Public	20090615	20090815	F
12	FLORIDA GULF COAST UNIVERSITY	FL		4 Public	20090901	20090902	F
13	BROOKDALE COMMUNITY COLLEGE	NJ		2 Public	20090903	20091217	F
14	MARIST COLLEGE	NY		4 Private	20100120	20100512	F
15	MARIST COLLEGE	NY		4 Private	20100616	20100808	F
16							
17							

- It looks like Nicole did an add/drop in Spring 2009 and now we have two records for one semester.

Sample NSC Results - Microsoft Excel

I	J	K	L	M	N	O
Institution Name	College State	2-year / 4-year	Public / Private	Enrollment Begin	Enrollment End	Enrollment Status
REGEN COMMUNITY COLLEGE	NJ	2	Public	20090114	20090116	F
IRLEIGH DICKINSON UNIVERSITY - TENN	NJ	4	Private	20090114	20090511	F
IRLEIGH DICKINSON UNIVERSITY - TENN	NJ	4	Private	20090114	20090814	F
IRLEIGH DICKINSON UNIVERSITY - TENN	NJ	4	Private	20090114	20091217	F
STATE UNIVERSITY OF NEW JERSEY	NJ	4	Private	20100122	20100513	F
MONTCLAIR STATE UNIVERSITY	NJ	4	Private	20090114	20090116	F
MONTCLAIR STATE UNIVERSITY	NJ	4	Private	20090118	20090511	F
FLORIDA GULF COAST UNIVERSITY	FL	4	Public	20090118	20090512	F
FLORIDA GULF COAST UNIVERSITY	FL	4	Public	20090615	20090815	F
FLORIDA GULF COAST UNIVERSITY	FL	4	Public	20090901	20090902	F
MOCKDALE COMMUNITY COLLEGE	NJ	2	Public	20090903	20091217	F
ARIST COLLEGE	NY	4	Private	20100120	20100512	F
ARIST COLLEGE	NY	4	Private	20100616	20100808	F

Once you open up the file in SPSS...

- You want to SAVE the file and NAME the dataset.

SAVE OUTFILE ='C:\LOCATION\DUPLICATED.sav' .

DATASET NAME CORE .

New Commands

SAVE: CSR 1732

DATASET : CSR 553

- The file name will appear in the top left-hand corner followed by the dataset name in brackets.

A screenshot of the PASW Statistics Data Editor interface. The title bar at the top reads "DUPLICATED.sav [CORE] - PASW Statistics Data Editor". Below the title bar is a menu bar with options: File, Edit, View, Data, Transform, Analyze, Graphs, Utilities, Add-ons, Window. A toolbar with various icons is located below the menu bar. The main data area shows a table with columns: FirstName, Middle, LastName, NameSuffix, RequesterReturnField, Record, and Search. The first row of data is highlighted in blue and contains the values: 1, GEORGE, P, SMITH, ., 496006_, Y, .

	FirstName	Middle	LastName	NameSuffix	RequesterReturnField	Record	Search
1	GEORGE	P	SMITH	.	496006_	Y	.
2	GEORGE	P	SMITH	.	496006_	Y	.
3	GEORGE	P	SMITH	.	496006_	Y	.
4	GEORGE	P	SMITH	.	496006_	Y	.
5	GFORGF	P	SMITH	.	496006	Y	.

Create and save a dataset for those without enrollment activity...

```
DATASET COPY NO_ACT.
```

```
DATASET ACTIVATE NO_ACT.
```

```
SELECT IF(RecordFoundYN = 'N').
```

```
DELETE VARIABLES CollegeName CollegeState CollegeBranchCode  
@2year4year PublicPrivate EnrollmentBegin EnrollmentEnd  
EnrollmentStatus CollegeSequence Graduated GraduationDate DegreeTitle  
Major .
```

```
SAVE OUTFILE ='C:\Location\NO_ACT.sav' .
```

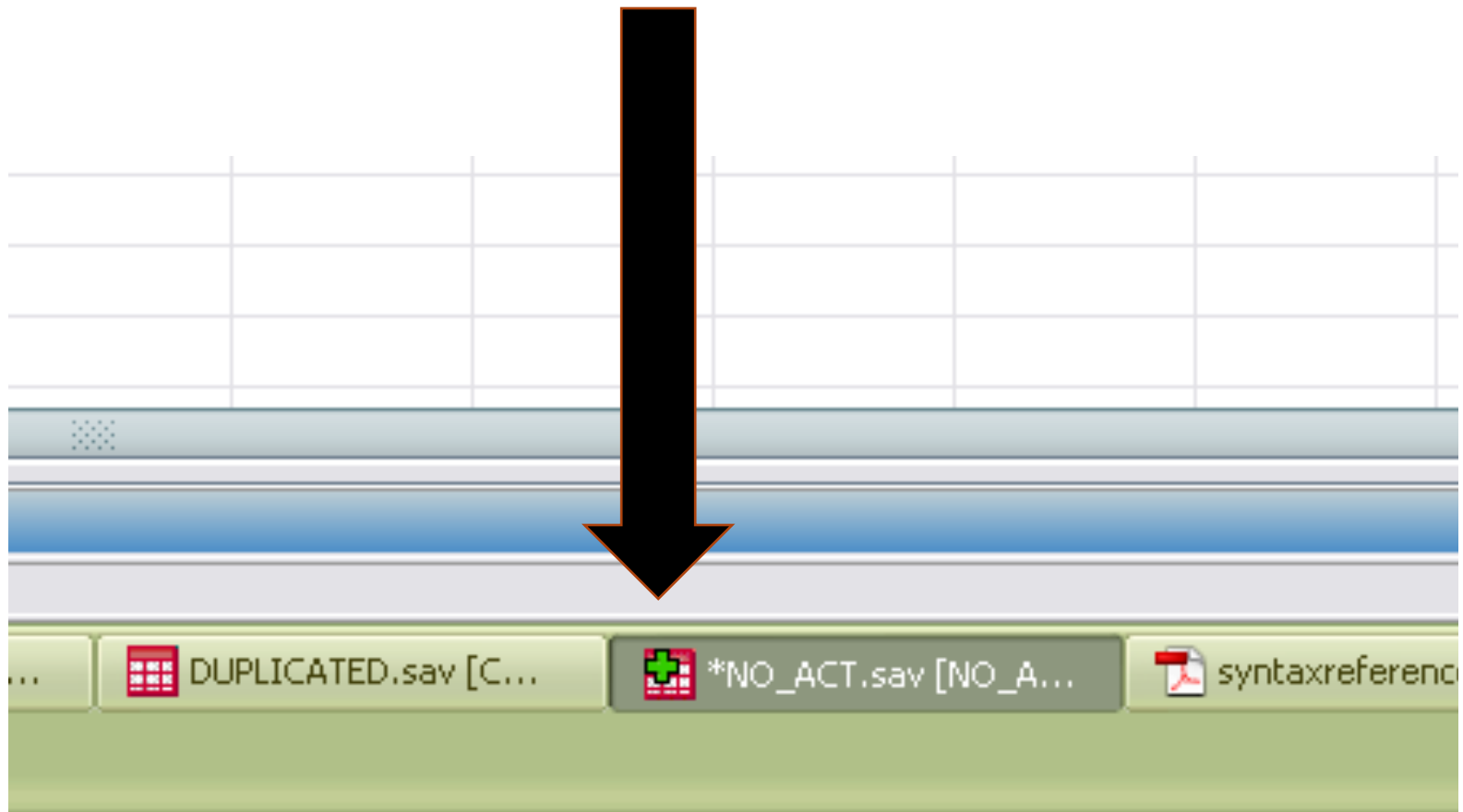
```
EXECUTE .
```

New Commands

SELECT IF: CSR 1770

DELETE VARIABLES: CSR 584

- Now that we have more than one SPSS dataset open, notice that the “active” data set is designated by a green + symbol.
- When code is executed, SPSS will run it against the “active” dataset.



Let's reactivate the dataset CORE and remove the students without enrollment activity...

DATASET ACTIVATE CORE.

*SELECT IF(RecordFoundYN = 'Y').
EXECUTE .*

Now let's convert **EnrollmentBegin** from NUMERIC variable type to DATE variable type:

```
COMPUTE year=number(SUBSTR(string(EnrollmentBegin,F8),3,2),F2).  
COMPUTE day=number(SUBSTR(string(EnrollmentBegin,F8),7,2),F2).  
COMPUTE month=number(SUBSTR(string(EnrollmentBegin,F8),5,2),F2).  
COMPUTE ENR_BEGIN=DATE.MDY(month,day,year).  
FORMATS ENR_BEGIN (ADATE8).  
EXECUTE.
```

20090121
1 2 3 4 5 6 7 8

New Commands

COMPUTE: CSR 310

FORMATS: CSR 714

EnrollmentBegin	year	day	month	ENR_BEGIN
20090114	9	14	1	01/14/09
20090118	9	18	1	01/18/09
20090611	9	11	6	06/11/09
20090903	9	3	9	09/03/09
20100122	10	22	1	01/22/10
20090114	9	14	1	01/14/09
20090118	9	18	1	01/18/09
20090118	9	18	1	01/18/09
20090615	9	15	6	06/15/09
20090901	9	1	9	09/01/09
20090903	9	3	9	09/03/09
20100120	10	20	1	01/20/10
20100616	10	16	6	06/16/10

Now let's do the same thing for **EnrollmentEnd** ...

```
COMPUTE year=number(SUBSTR(string(EnrollmentEnd,F8),3,2),F2).  
COMPUTE day=number(SUBSTR(string(EnrollmentEnd,F8),7,2),F2).  
COMPUTE month=number(SUBSTR(string(EnrollmentEnd,F8),5,2),F2).  
COMPUTE ENR_END=DATE.MDY(month,day,year).  
FORMATS ENR_END (ADATE8).  
EXECUTE.
```

... and then save the file **DUPLICATED** once again.

```
SAVE OUTFILE ='C:\Location\DUPLICATED.sav' .
```

Next we're going to make a minor adjustment to the **CollegeSequence** variable using the **SORT CASES** command and the **LAG** function.

First let's SORT CASES

SORT CASES BY

LastName (A) FirstName (A) ENR_BEGIN (A) .

New Commands

SORT CASES: CSR 1810

2nd1st3rd

FirstName	Mid dle ni...	LastName	CollegeName	ENR_BEGIN	ENR_END	CollegeSequence
NICOLE		ADAMS	MONTCLAIR STATE UNIVERSITY	01/14/09	01/16/09	1
NICOLE		ADAMS	MONTCLAIR STATE UNIVERSITY	01/18/09	05/11/09	.
STEPHEN	R	JOHNSTON	FLORIDA GULF COAST UNIVERSITY	01/18/09	05/12/09	1
STEPHEN	R	JOHNSTON	FLORIDA GULF COAST UNIVERSITY	06/15/09	08/15/09	.
STEPHEN	R	JOHNSTON	FLORIDA GULF COAST UNIVERSITY	09/01/09	09/02/09	.
STEPHEN	R	JOHNSTON	BROOKDALE COMMUNITY COLLEGE	09/03/09	12/17/09	2
STEPHEN	R	JOHNSTON	MARIST COLLEGE	01/20/10	05/12/10	3
STEPHEN	R	JOHNSTON	MARIST COLLEGE	06/16/10	08/08/10	.
GEORGE	P	SMITH	BERGEN COMMUNITY COLLEGE	01/14/09	01/16/09	1
GEORGE	P	SMITH	FAIRLEIGH DICKINSON UNIVERSIT...	01/18/09	05/11/09	2
GEORGE	P	SMITH	FAIRLEIGH DICKINSON UNIVERSIT...	06/11/09	08/14/09	.
GEORGE	P	SMITH	FAIRLEIGH DICKINSON UNIVERSIT...	09/03/09	12/17/09	.
GEORGE	P	SMITH	RUTGERS -THE STATE UNIVERSIT...	01/22/10	05/13/10	3

Let's take a quick look at CollegeSequence.



LastName	CollegeName	ENR_BEGIN	ENR_END	CollegeSequence
ADAMS	MONTCLAIR STATE UNIVERSITY	01/14/09	01/16/09	1
ADAMS	MONTCLAIR STATE UNIVERSITY	01/18/09	05/11/09	.
JOHNSTON	FLORIDA GULF COAST UNIVERSITY	01/18/09	05/12/09	1
JOHNSTON	FLORIDA GULF COAST UNIVERSITY	06/15/09	08/15/09	.
JOHNSTON	FLORIDA GULF COAST UNIVERSITY	09/01/09	09/02/09	.
JOHNSTON	BROOKDALE COMMUNITY COLLEGE	09/03/09	12/17/09	2
JOHNSTON	MARIST COLLEGE	01/20/10	05/12/10	3
JOHNSTON	MARIST COLLEGE	06/16/10	08/08/10	.
SMITH	BERGEN COMMUNITY COLLEGE	01/14/09	01/16/09	1
SMITH	FAIRLEIGH DICKINSON UNIVERSIT...	01/18/09	05/11/09	2
SMITH	FAIRLEIGH DICKINSON UNIVERSIT...	06/11/09	08/14/09	.
SMITH	FAIRLEIGH DICKINSON UNIVERSIT...	09/03/09	12/17/09	.
SMITH	RUTGERS -THE STATE UNIVERSIT...	01/22/10	05/13/10	3

- CollegeSequence is an ordinal marker of unique institutions for each student.
- As you can see, only the first record for each institution is numbered.

Let's use the LAG function to populate every record with the proper CollegeSequence value.

IF (SYSMIS(CollegeSequence)) CollegeSequence = LAG(CollegeSequence).

- The LAG function is used in the syntax above to populate any blank cells in the CollegeSequence column with the last non-missing value.
- It is imperative that we perform this function only after sorting properly and prior to removing any records showing enrollment activity.

LastName	CollegeName	ENR_BEGIN	ENR_END	CollegeSequence
ADAMS	MONTCLAIR STATE UNIVERSITY	01/14/09	01/16/09	1
ADAMS	MONTCLAIR STATE UNIVERSITY	01/18/09	05/11/09	.
JOHNSTON	FLORIDA GULF COAST UNIVERSITY	01/18/09	05/12/09	1
JOHNSTON	FLORIDA GULF COAST UNIVERSITY	06/15/09	08/15/09	.
JOHNSTON	FLORIDA GULF COAST UNIVERSITY	09/01/09	09/02/09	.
JOHNSTON	BROOKDALE COMMUNITY COLLEGE	09/03/09	12/17/09	2
JOHNSTON	MARIST COLLEGE	01/20/10	05/12/10	3
JOHNSTON	MARIST COLLEGE	06/16/10	08/08/10	.
SMITH	BERGEN COMMUNITY COLLEGE	01/14/09	01/16/09	1
SMITH	FAIRLEIGH DICKINSON UNIVERSIT...	01/18/09	05/11/09	2
SMITH	FAIRLEIGH DICKINSON UNIVERSIT...	06/11/09	08/14/09	.
SMITH	FAIRLEIGH DICKINSON UNIVERSIT...	09/03/09	12/17/09	.
SMITH	RUTGERS -THE STATE UNIVERSIT...	01/22/10	05/13/10	3

Before

LastName	CollegeName	ENR_BEGIN	ENR_END	CollegeSequence
ADAMS	MONTCLAIR STATE UNIVERSITY	01/14/09	01/16/09	1
ADAMS	MONTCLAIR STATE UNIVERSITY	01/18/09	05/11/09	1
JOHNSTON	FLORIDA GULF COAST UNIVERSITY	01/18/09	05/12/09	1
JOHNSTON	FLORIDA GULF COAST UNIVERSITY	06/15/09	08/15/09	1
JOHNSTON	FLORIDA GULF COAST UNIVERSITY	09/01/09	09/02/09	1
JOHNSTON	BROOKDALE COMMUNITY COLLEGE	09/03/09	12/17/09	2
JOHNSTON	MARIST COLLEGE	01/20/10	05/12/10	3
JOHNSTON	MARIST COLLEGE	06/16/10	08/08/10	3
SMITH	BERGEN COMMUNITY COLLEGE	01/14/09	01/16/09	1
SMITH	FAIRLEIGH DICKINSON UNIVERSIT...	01/18/09	05/11/09	2
SMITH	FAIRLEIGH DICKINSON UNIVERSIT...	06/11/09	08/14/09	2
SMITH	FAIRLEIGH DICKINSON UNIVERSIT...	09/03/09	12/17/09	2
SMITH	RUTGERS -THE STATE UNIVERSIT...	01/22/10	05/13/10	3

After

Next let's remove the enrollment records that don't belong.

FirstName	Mi ddl ...	LastName	CollegeName	ENR_BEGIN	ENR_END
GEORGE	P	SMITH	BERGEN COMMUNITY COLLEGE	01/14/09	01/16/09
GEORGE	P	SMITH	FAIRLEIGH DICKINSON UNIVE...	01/18/09	05/11/09
GEORGE	P	SMITH	FAIRLEIGH DICKINSON UNIVE...	06/11/09	08/14/09
GEORGE	P	SMITH	FAIRLEIGH DICKINSON UNIVE...	09/03/09	12/17/09
GEORGE	P	SMITH	RUTGERS -THE STATE UNIVE...	01/22/10	05/13/10
NICOLE		ADAMS	MONTCLAIR STATE UNIVERSITY	01/14/09	01/16/09
NICOLE		ADAMS	MONTCLAIR STATE UNIVERSITY	01/18/09	05/11/09
STEPHEN	R	JOHNSTON	FLORIDA GULF COAST UNIVE...	01/18/09	05/12/09
STEPHEN	R	JOHNSTON	FLORIDA GULF COAST UNIVE...	06/15/09	08/15/09
STEPHEN	R	JOHNSTON	FLORIDA GULF COAST UNIVE...	09/01/09	09/02/09
STEPHEN	R	JOHNSTON	BROOKDALE COMMUNITY CO...	09/03/09	12/17/09
STEPHEN	R	JOHNSTON	MARIST COLLEGE	01/20/10	05/12/10
STEPHEN	R	JOHNSTON	MARIST COLLEGE	06/16/10	08/08/10



To do that, we'll create a variable called **ENR_DAYS** which is the number of days the enrollment activity lasted for.

```
COMPUTE ENR_DAYS = DATEDIFF(ENR_END,ENR_BEGIN,"days").
```

Since we have converted the dates to date format, we can use DATE functions such as the DATEDIFF function.

ENR_DAYS



FirstName	Mi ddl ...	LastName	CollegeName	ENR_BEGIN	ENR_END	ENR_DAYS	C
GEORGE	P	SMITH	BERGEN COMMUNITY COLLEGE	01/14/09	01/16/09	2	
GEORGE	P	SMITH	FAIRLEIGH DICKINSON UNIVE...	01/18/09	05/11/09	113	
GEORGE	P	SMITH	FAIRLEIGH DICKINSON UNIVE...	06/11/09	08/14/09	64	
GEORGE	P	SMITH	FAIRLEIGH DICKINSON UNIVE...	09/03/09	12/17/09	105	
GEORGE	P	SMITH	RUTGERS -THE STATE UNIVE...	01/22/10	05/13/10	111	
NICOLE		ADAMS	MONTCLAIR STATE UNIVERSITY	01/14/09	01/16/09	2	
NICOLE		ADAMS	MONTCLAIR STATE UNIVERSITY	01/18/09	05/11/09	113	
STEPHEN	R	JOHNSTON	FLORIDA GULF COAST UNIVE...	01/18/09	05/12/09	114	
STEPHEN	R	JOHNSTON	FLORIDA GULF COAST UNIVE...	06/15/09	08/15/09	61	
STEPHEN	R	JOHNSTON	FLORIDA GULF COAST UNIVE...	09/01/09	09/02/09	1	
STEPHEN	R	JOHNSTON	BROOKDALE COMMUNITY CO...	09/03/09	12/17/09	105	
STEPHEN	R	JOHNSTON	MARIST COLLEGE	01/20/10	05/12/10	112	
STEPHEN	R	JOHNSTON	MARIST COLLEGE	06/16/10	08/08/10	53	

Now let's remove the records that don't belong.

```
SELECT IF(ENR_DAYS > 10).  
EXECUTE .
```

NOTE: We typically define a valid enrollment activity as greater than 10 days, but you can use whatever parameters you would like.

id	LastName	CollegeName	ENR_BEGIN	ENR_END	ENR_DAYS	C
1	SMITH	BERGEN COMMUNITY COLLEGE	01/14/09	01/16/09	2	
2	SMITH	FAIRLEIGH DICKINSON UNIVE...	01/18/09	05/11/09	113	
3	SMITH	FAIRLEIGH DICKINSON UNIVE...	06/11/09	08/14/09	64	
4	SMITH	FAIRLEIGH DICKINSON UNIVE...	09/03/09	12/17/09	105	
5	SMITH	RUTGERS -THE STATE UNIVE...	01/22/10	05/13/10	111	
6	ADAMS	MONTCLAIR STATE UNIVERSITY	01/14/09	01/16/09	2	
7	ADAMS	MONTCLAIR STATE UNIVERSITY	01/18/09	05/11/09	113	
8	JOHNSTON	FLORIDA GULF COAST UNIVE...	01/18/09	05/12/09	114	
9	JOHNSTON	FLORIDA GULF COAST UNIVE...	06/15/09	08/15/09	61	
10	JOHNSTON	FLORIDA GULF COAST UNIVE...	09/01/09	09/02/09	1	
11	JOHNSTON	BROOKDALE COMMUNITY CO...	09/03/09	12/17/09	105	
12	JOHNSTON	MARIST COLLEGE	01/20/10	05/12/10	112	
13	JOHNSTON	MARIST COLLEGE	06/16/10	08/08/10	53	



LastName	CollegeName	ENR_BEGIN	ENR_END	ENR_DAYS	Co
SMITH	FAIRLEIGH DICKINSON UNIVE...	01/18/09	05/11/09	113	
SMITH	FAIRLEIGH DICKINSON UNIVE...	06/11/09	08/14/09	64	
SMITH	FAIRLEIGH DICKINSON UNIVE...	09/03/09	12/17/09	105	
SMITH	RUTGERS -THE STATE UNIVE...	01/22/10	05/13/10	111	
ADAMS	MONTCLAIR STATE UNIVERSITY	01/18/09	05/11/09	113	
JOHNSTON	FLORIDA GULF COAST UNIVE...	01/18/09	05/12/09	114	
JOHNSTON	FLORIDA GULF COAST UNIVE...	06/15/09	08/15/09	61	
JOHNSTON	BROOKDALE COMMUNITY CO...	09/03/09	12/17/09	105	
JOHNSTON	MARIST COLLEGE	01/20/10	05/12/10	112	
JOHNSTON	MARIST COLLEGE	06/16/10	08/08/10	53	

- At this point, each record represents a single semester/session.

For example, if someone has three records for a particular institution, they were enrolled there for 3 semesters/sessions.

- We will be condensing our file down to “one record per student” but would like to retain information on the number of semesters/sessions enrolled.

In order to do this we will use the RANK command.

RANK

*VARIABLES=ENR_BEGIN (A) BY RequesterReturnField
CollegeSequence /RANK /PRINT=NO/TIES=MEAN .*

New Commands

RANK: CSR 1584

A variable **RENr_BEG** is created, which is a running count of the number of semesters/sessions at each institution.



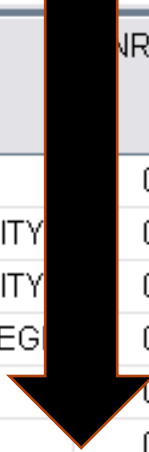
LastName	CollegeName	ENR_BEGIN	ENR_END	CollegeSequence	RENr_BEG
ADAMS	MONTCLAIR STATE UNIVERSITY	01/18/09	05/11/09	1	1
JOHNSTON	FLORIDA GULF COAST UNIVERSITY	01/18/09	05/12/09	1	1
JOHNSTON	FLORIDA GULF COAST UNIVERSITY	06/15/09	08/15/09	1	2
JOHNSTON	BROOKDALE COMMUNITY COLLEGE	09/03/09	12/17/09	2	1
JOHNSTON	MARIST COLLEGE	01/20/10	05/12/10	3	1
JOHNSTON	MARIST COLLEGE	06/16/10	08/08/10	3	2
SMITH	FAIRLEIGH DICKINSON UNIVERSIT...	01/18/09	05/11/09	2	1
SMITH	FAIRLEIGH DICKINSON UNIVERSIT...	06/11/09	08/14/09	2	2
SMITH	FAIRLEIGH DICKINSON UNIVERSIT...	09/03/09	12/17/09	2	3
SMITH	RUTGERS -THE STATE UNIVERSIT...	01/22/10	05/13/10	3	1



- Now we'll condense the file so that all records for a single institution are displayed in one single record.
- These are the records with the brackets below.

LastName	CollegeName	ENR_BEGIN	ENR_END	CollegeSequence	RENK_BEG
ADAMS	MONTCLAIR STATE UNIVERSITY	01/18/09	05/11/09	1	1
JOHNSTON	FLORIDA GULF COAST UNIVERSITY	01/18/09	05/12/09	1	1
JOHNSTON	FLORIDA GULF COAST UNIVERSITY	06/15/09	08/15/09	1	2
JOHNSTON	BROOKDALE COMMUNITY COLLEGE	09/03/09	12/17/09	2	1
JOHNSTON	MARIST COLLEGE	01/20/10	05/12/10	3	1
JOHNSTON	MARIST COLLEGE	06/16/10	08/08/10	3	2
SMITH	FAIRLEIGH DICKINSON UNIVERSIT...	01/18/09	05/11/09	2	1
SMITH	FAIRLEIGH DICKINSON UNIVERSIT...	06/11/09	08/14/09	2	2
SMITH	FAIRLEIGH DICKINSON UNIVERSIT...	09/03/09	12/17/09	2	3
SMITH	RUTGERS -THE STATE UNIVERSIT...	01/22/10	05/13/10	3	1

Let's focus on George Smith's FDU records to illustrate how this is done.



LastName	CollegeName	ENR_BEGIN	ENR_END	CollegeSequence	RENK_BEG
ADAMS	MONTCLAIR STATE UNIVERSITY	01/18/09	05/11/09	1	1
JOHNSTON	FLORIDA GULF COAST UNIVERSITY	01/18/09	05/12/09	1	1
JOHNSTON	FLORIDA GULF COAST UNIVERSITY	06/15/09	08/15/09	1	2
JOHNSTON	BROOKDALE COMMUNITY COLLEGE	09/03/09	12/17/09	2	1
JOHNSTON	MARIST COLLEGE	01/20/10	05/12/10	3	1
JOHNSTON	MARIST COLLEGE	06/16/10	08/08/10	3	2
SMITH	FAIRLEIGH DICKINSON UNIVERSIT...	01/18/09	05/11/09	2	1
SMITH	FAIRLEIGH DICKINSON UNIVERSIT...	06/11/09	08/14/09	2	2
SMITH	FAIRLEIGH DICKINSON UNIVERSIT...	09/03/09	12/17/09	2	3
SMITH	RUTGERS -THE STATE UNIVERSIT...	01/22/10	05/13/10	3	1

The best way to condense these three records into one record while maintaining the most relevant information is to do the following:

FirstName	MiddleInitial	LastName	CollegeName	ENR_BEGIN	ENR_END	RENR_BEG
GEORGE	P	SMITH	FAIRLEIGH DICKINSON UNIVERSIT...	01/18/09	05/11/09	1
GEORGE	P	SMITH	FAIRLEIGH DICKINSON UNIVERSIT...	06/11/09	08/14/09	2
GEORGE	P	SMITH	FAIRLEIGH DICKINSON UNIVERSIT...	09/03/09	12/17/09	3

Step 1 – We'll replace all ENR_BEGIN dates with a SYSMIS except for the first semester/session for each institution.

FirstName	MiddleInitial	LastName	CollegeName	ENR_BEGIN	ENR_END	RENDR_BEGIN
GEORGE	P	SMITH	FAIRLEIGH DICKINSON UNIVERSIT...	01/18/09	05/11/09	1
GEORGE	P	SMITH	FAIRLEIGH DICKINSON UNIVERSIT...	.	08/14/09	2
GEORGE	P	SMITH	FAIRLEIGH DICKINSON UNIVERSIT...	.	12/17/09	3



```
DO IF (RENDR_BEGIN ~= 1) .  
  RECODE  
  ENR_BEGIN (ELSE=SYSMIS) .  
END IF .
```

New Commands

DO IF: CSR 621

RECODE: CSR 1614

Step 2 – Then we'll use the LAG function again to replace the black cells in ENR_BEGIN with the last non-missing value.

FirstName	MiddleInitial	LastName	CollegeName	ENR_BEGIN	ENR_END	RENRE_BEG
GEORGE	P	SMITH	FAIRLEIGH DICKINSON UNIVERSIT...	01/18/09	05/11/09	1
GEORGE	P	SMITH	FAIRLEIGH DICKINSON UNIVERSIT...	01/18/09	08/14/09	2
GEORGE	P	SMITH	FAIRLEIGH DICKINSON UNIVERSIT...	01/18/09	12/17/09	3



IF (SYSMIS(ENR_BEGIN)) ENR_BEGIN = LAG(ENR_BEGIN).

Step 3 – Now we can keep the last record for each institution and eliminate the rest.

We'll also change the name of RENR_BEG to Semesters_at_Inst.

change
variable
name



FirstName	MiddleInitial	LastName	CollegeName	ENR_BEGIN	ENR_END	RENr_BEG
GEORGE	P	SMITH	FAIRLEIGH DICKINSON UNIVERSIT...	01/18/09	05/11/09	1
GEORGE	P	SMITH	FAIRLEIGH DICKINSON UNIVERSIT...	01/18/09	08/14/09	2
GEORGE	P	SMITH	FAIRLEIGH DICKINSON UNIVERSIT...	01/18/09	12/17/09	3

Here's the code to do all of that.

```
SORT CASES BY RequesterReturnField(A) CollegeName(A) .  
MATCH FILES /FILE = * /BY RequesterReturnField CollegeName  
/LAST = PrimaryLast .  
VARIABLE LABELS PrimaryLast 'Indicator'.  
VALUE LABELS PrimaryLast 0 'Duplicate Case' 1 'Primary Case'.  
VARIABLE LEVEL PrimaryLast (ORDINAL).  
SELECT IF(PrimaryLast = 1).  
  
RENAME VARIABLES (RENREN_BEG=Semesters_at_Inst) .
```

New Commands

MATCH FILES: CSR 1072

VARIABLE LABELS: CSR 2038

VARIABLE LEVEL: CSR 2040

RENAME VARIABLES: CSR 1663

And here's a look at the file afterwards, restructured into a "one record per institution" format.

id	FirstName	MiddleInitial	LastName	CollegeName	ENR_BEGIN	ENR_END	Semesters_at_Inst
	STEPHEN	R	JOHNSTON	BROOKDALE COMMUNITY COLLEGE	09/03/09	12/17/09	1
	STEPHEN	R	JOHNSTON	FLORIDA GULF COAST UNIVERSITY	01/18/09	08/15/09	2
	STEPHEN	R	JOHNSTON	MARIST COLLEGE	01/20/10	08/08/10	2
	GEORGE	P	SMITH	FAIRLEIGH DICKINSON UNIVERSIT...	01/18/09	12/17/09	3
	GEORGE	P	SMITH	RUTGERS -THE STATE UNIVERSIT...	01/22/10	05/13/10	1
	NICOLE		ADAMS	MONTCLAIR STATE UNIVERSITY	01/18/09	05/11/09	1

Going back to our example George Smith, we took the following information from the three FDU records...

Before

FirstName	MiddleInitial	LastName	CollegeName	ENR_BEGIN	ENR_END	RENDR_BEG
GEORGE	P	SMITH	FAIRLEIGH DICKINSON UNIVERSIT...	01/18/09	05/11/09	1
GEORGE	P	SMITH	FAIRLEIGH DICKINSON UNIVERSIT...	06/11/09	08/14/09	2
GEORGE	P	SMITH	FAIRLEIGH DICKINSON UNIVERSIT...	09/03/09	12/17/09	3

... and condensed it into one record.

After

id	FirstName	MiddleInitial	LastName	CollegeName	ENR_BEGIN	ENR_END	Semesters_at_Inst
	STEPHEN	R	JOHNSTON	BROOKDALE COMMUNITY COLLEGE	09/03/09	12/17/09	1
	STEPHEN	R	JOHNSTON	FLORIDA GULF COAST UNIVERSITY	01/18/09	08/15/09	2
	STEPHEN	R	JOHNSTON	MARIST COLLEGE	01/20/10	08/08/10	2
	GEORGE	P	SMITH	FAIRLEIGH DICKINSON UNIVERSIT...	01/18/09	12/17/09	3
	GEORGE	P	SMITH	RUTGERS -THE STATE UNIVERSIT...	01/22/10	05/13/10	1
	NICOLE		ADAMS	MONTCLAIR STATE UNIVERSITY	01/18/09	05/11/09	1



Then we renamed the variable RENR_BEG.



Before

FirstName	MiddleInitial	LastName	CollegeName	ENR_BEGIN	ENR_END	RENr_BEG
GEORGE	P	SMITH	FAIRLEIGH DICKINSON UNIVERSIT...	01/18/09	05/11/09	1
GEORGE	P	SMITH	FAIRLEIGH DICKINSON UNIVERSIT...	06/11/09	08/14/09	2
GEORGE	P	SMITH	FAIRLEIGH DICKINSON UNIVERSIT...	09/03/09	12/17/09	3



After

FirstName	MiddleInitial	LastName	CollegeName	ENR_BEGIN	ENR_END	Semesters_at_Inst
STEPHEN	R	JOHNSTON	BROOKDALE COMMUNITY COLLEGE	09/03/09	12/17/09	1
STEPHEN	R	JOHNSTON	FLORIDA GULF COAST UNIVERSITY	01/18/09	08/15/09	2
STEPHEN	R	JOHNSTON	MARIST COLLEGE	01/20/10	08/08/10	2
GEORGE	P	SMITH	FAIRLEIGH DICKINSON UNIVERSIT...	01/18/09	12/17/09	3
GEORGE	P	SMITH	RUTGERS -THE STATE UNIVERSIT...	01/22/10	05/13/10	1
NICOLE		ADAMS	MONTCLAIR STATE UNIVERSITY	01/18/09	05/11/09	1

Up to this point we have restructured the file from

“one record, per enrollment activity, per student”

to

“one record, per institution, per student”.

In this final portion of the program we will take this one step further and restructure from

“one record, per institution, per student”

to

“one record per student”.

After saving the file DUPLICATED one final time...

DATASET ACTIVATE CORE.

SAVE OUTFILE ='C:\Location\DUPLICATED.sav' .

...we'll make a new copy called UNDUPLICATED.

DATASET NAME UNDUPLICATED .

DATASET ACTIVATE UNDUPLICATED .

SAVE OUTFILE ='C:\Location\UNDUPLICATED.sav' .

Now we'll restructure using the command

CASESTOVARs

- The Command Syntax Reference gives a clear summary of what this powerful command does.

From the Command Syntax Reference:

In a simple data file, each variable is a single column in your data, and each case is a single row in your data. So, if you were recording the score on a test for all students in a class, the scores would appear in only one column and there would be only one row for each student.

Complex data files store data in more than one column or row. For example, if you were recording monthly test scores for all students in a class, there would be multiple rows for each student—one for each month.

CASESTOVARS restructures complex data that has multiple rows for a case. You can use it to restructure data in which repeated measurements of a single case were recorded in multiple rows (row groups) into a new data file in which each case appears as separate variables (variable groups) in a single row.

Here is the syntax.

*SORT CASES BY
RequesterReturnField (A) ENR_BEGIN (A) .*

*CASESTOVARS
/ID = RequesterReturnField
/GROUPBY = INDEX .*

New Commands

CASESTOVARS: CSR 230

Before viewing the final results we should merge the student's with no enrollment activity back into our file.

DATASET ACTIVATE UNDUPLICATED.

ADD FILES /FILE=
/FILE='NO_ACT'.*

New Commands

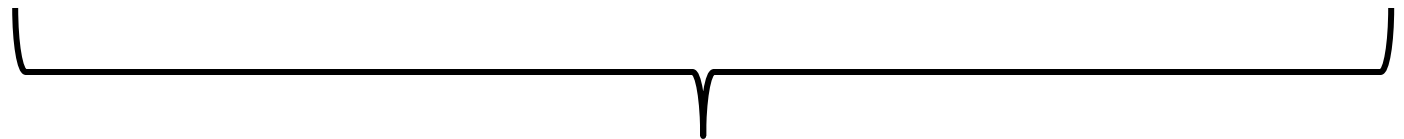
ADD FILES: CSR 135

And our Final Results

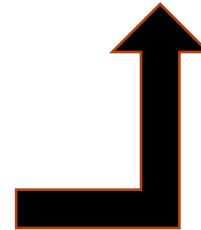
Record Found YN	FirstName	Middle	LastName	CollegeName.1	ENR_BEGIN.1	ENR_END.1	Semesters_at_Inst.1	@2year4 year.1	CollegeState_In_Out.1	PublicPrivate_College.1	Inst_State.1
Y	STEPHEN	R	JOHNSTON	FLORIDA GULF COAST UNIVERSITY	01/18/09	08/15/09	2	4	Out-of-State	Public	FL
Y	GEORGE	P	SMITH	FAIRLEIGH DICKINSON UNIVERSITY...	01/18/09	12/17/09	3	4	In-State	Private	NJ
Y	NICOLE		ADAMS	MONTCLAIR STATE UNIVERSITY	01/18/09	05/11/09	1	4	In-State	Private	NJ
N	ELIZABE...		LOPEZ								

- One record per student

Record Found YN	FirstName	Middle	LastName	CollegeName.1	ENR_BEGIN.1	ENR_END.1	Semesters_at_Inst.1	@2year4 year.1	CollegeState_In_Out.1	PublicPrivate_College.1	Inst_State.1
Y	STEPHEN	R	JOHNSTON	FLORIDA GULF COAST UNIVERSITY	01/18/09	08/15/09	2	4	Out-of-State	Public	FL
Y	GEORGE	P	SMITH	FAIRLEIGH DICKINSON UNIVERSITY...	01/18/09	12/17/09	3	4	In-State	Private	NJ
Y	NICOLE		ADAMS	MONTCLAIR STATE UNIVERSITY	01/18/09	05/11/09	1	4	In-State	Private	NJ
N	ELIZABE...		LOPEZ								



- One record per student
- The first institution of enrollment

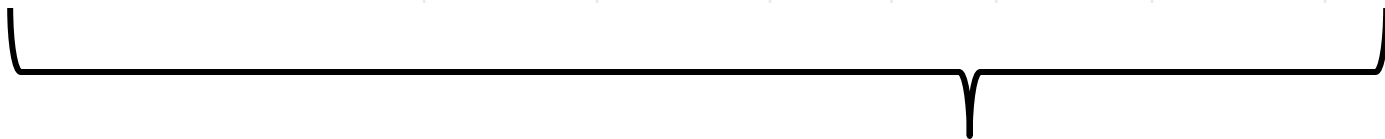


Record Found YN	FirstName	Middle	LastName	CollegeName.1	ENR_BEGIN.1	ENR_END.1	Semesters_at_Inst.1	@2year4 year.1	CollegeState_In_Out.1	PublicPrivate_College.1	Inst_State.1
Y	STEPHEN	R	JOHNSTON	FLORIDA GULF COAST UNIVERSITY	01/18/09	08/15/09	2	4	Out-of-State	Public	FL
Y	GEORGE	P	SMITH	FAIRLEIGH DICKINSON UNIVERSITY...	01/18/09	12/17/09	3	4	In-State	Private	NJ
Y	NICOLE		ADAMS	MONTCLAIR STATE UNIVERSITY	01/18/09	05/11/09	1	4	In-State	Private	NJ
N	ELIZABE...		LOPEZ								

Scrolling to the right



Private_ age.1	Inst_ State. 1	CollegeName.2	ENR_BEGIN.2	ENR_END.2	Semester s_at_Inst. 2	@2year4 year.2	CollegeState _In_Out.2	PublicPrivate_ College.2	Inst_ State. 2	CollegeName.3
Public	FL	BROOKDALE COMMUNITY COLLE...	09/03/09	12/17/09	1	2	In-State	Public	NJ	MARIST COLLEGE
Private	NJ	RUTGERS -THE STATE UNIVERSI...	01/22/10	05/13/10	1	4	In-State	Private	NJ	
Private	NJ		.	.	.	.	.	.	.
.			



- The second institution of enrollment

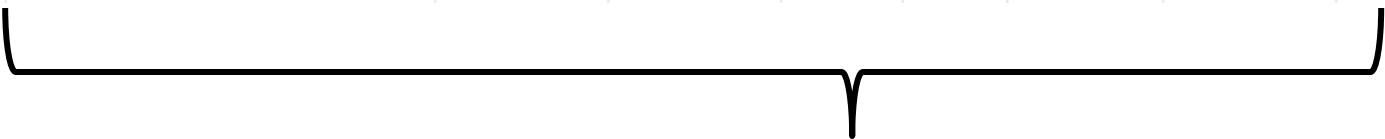


Private_ age.1	Inst_ State.1	CollegeName.2	ENR_BEGIN.2	ENR_END.2	Semester s_at_Inst.2	@2year4 year.2	CollegeState _In_Out.2	PublicPrivate_ College.2	Inst_ State.2	CollegeName.3
Public	FL	BROOKDALE COMMUNITY COLLE...	09/03/09	12/17/09	1	2	In-State	Public	NJ	MARIST COLLEGE
Private	NJ	RUTGERS -THE STATE UNIVERSI...	01/22/10	05/13/10	1	4	In-State	Private	NJ	
Private	NJ		.	.	.	.	.	.	.
.			

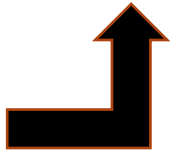
Scrolling to the right 

Public/Private_College.2	Inst_State.2	CollegeName.3	ENR_BEGIN.3	ENR_END.3	Semesters_at_Inst.3	@2year4_year.3	CollegeState_In_Out.3	Public/Private_College.3	Inst_State.3
Public	NJ	MARIST COLLEGE	01/20/10	08/08/10	2	4	Out-of-State	Private	NY
Private	NJ		.	.	.	.	.	.	.
.
.

Public/Private_Inst_State.2	Inst_State.2	CollegeName.3	ENR_BEGIN.3	ENR_END.3	Semester_s_at_Inst.3	@2year4_year.3	CollegeState_In_Out.3	Public/Private_College.3	Inst_State.3
Public	NJ	MARIST COLLEGE	01/20/10	08/08/10	2	4	Out-of-State	Private	NY
Private	NJ		.	.	.	.	.	.	.
.
.



- The third institution of enrollment



So why did we go through all of this trouble?

Now that our file is in a simple, “**one record per student**” format, we can easily perform all types of frequency analyses.

An even more robust analysis can be done when appending data from your institutional database such as Major, Admit Type, Home Town, Sex, etc.

Some examples...

Appendix A - Intended Major and Enrollment Institution of Accepted First-Year Applicants that Declined Admission

		N	Percent for this Major
ANTH	BERGEN COMMUNITY COLLEGE	2	28.6%
	MONTCLAIR STATE UNIVERSITY	1	14.3%
	RUTGERS -THE STATE UNIVERSITY OF NJ -NEW BRUNSWICK	1	14.3%
	EAST STROUDSBURG UNIVERSITY	1	14.3%
	UNIVERSITY OF CINCINNATI	1	14.3%
	COLLEGE OF WOOSTER	1	14.3%
	Total	7	100.0%
ECON	MONTCLAIR STATE UNIVERSITY	3	50.0%
	NEW JERSEY CITY UNIVERSITY	1	16.7%
	ST PETERS COLLEGE	1	16.7%
	ATLANTIC CAPE COMMUNITY COLLEGE	1	16.7%
	Total	6	100.0%
PHIL	RUTGERS -THE STATE UNIVERSITY OF NJ -NEW BRUNSWICK	1	20.0%
	BERGEN COMMUNITY COLLEGE	1	20.0%
	ROWAN UNIVERSITY	1	20.0%
	SUNY COLLEGE - CORTLAND	1	20.0%
	MOUNT ST MARY'S UNIVERSITY	1	20.0%
	Total	5	100.0%
	HOFSTRA UNIVERSITY	1	25.0%

**CSAT, Admit Type, and Institutions of Subsequent Enrollment of Students That Were Accepted to WPU but Declined Admission as a First-Year Student
(Sorted in Descending Order of CSAT)**

	CSAT	Admit Type	Intended WPU Major	Fall Institution	Spring Institution
1	1530	Regular Admit	PSY	COLLEGE OF NEW JERSEY	COLLEGE OF NEW JERSEY
2	1420	Regular Admit	UND	RAMAPO COLLEGE OF NEW JERSEY	RAMAPO COLLEGE OF NEW JERSEY
3	1410	Regular Admit	POL	WILLAMETTE UNIVERSITY	WILLAMETTE UNIVERSITY
4	1390	Regular Admit	ASN	ST JOHNS UNIVERSITY	ST JOHNS UNIVERSITY
5	1390	Regular Admit	MATH	SETON HALL UNIVERSITY	SETON HALL UNIVERSITY
6	1390	Regular Admit	COMM	RAMAPO COLLEGE OF NEW JERSEY	RAMAPO COLLEGE OF NEW JERSEY
7	1390	Regular Admit	UND	NEW JERSEY INSTITUTE OF TECHNOLOGY	NEW JERSEY INSTITUTE OF TECHNOLOGY
8	1380	Regular Admit	MUSP		THE NEW SCHOOL
9	1370	Regular Admit	ASN	RUTGERS -THE STATE UNIVERSITY OF NJ -NEW BRUNSWICK	RUTGERS -THE STATE UNIVERSITY OF NJ -NEW BRUNSWICK
10	1370	Regular Admit	BIOT	RUTGERS -THE STATE UNIVERSITY OF NJ -NEW BRUNSWICK	RUTGERS -THE STATE UNIVERSITY OF NJ -NEW BRUNSWICK
11	1370	Regular Admit	MSEA	MIDDLE TENNESSEE STATE UNIVERSITY	
12	1370	Regular Admit	MATH	LEHIGH UNIVERSITY	LEHIGH UNIVERSITY
13	1360	Regular Admit	COMM	SUNY STONY BROOK UNIVERSITY	SUNY STONY BROOK UNIVERSITY
14	1360	Regular Admit	MATH	NEW JERSEY INSTITUTE OF TECHNOLOGY	NEW JERSEY INSTITUTE OF TECHNOLOGY
15	1350	Regular Admit	NUR	RUTGERS - THE STATE UNIVERSITY OF NJ - NEWARK	RUTGERS - THE STATE UNIVERSITY OF NJ - NEWARK
16	1340	Regular Admit	MUSJ	NEW ENGLAND CONSERVATORY	NEW ENGLAND CONSERVATORY
17	1340	Regular Admit	BUS	FAIRLEIGH DICKINSON UNIVERSITY - MADISON	FAIRLEIGH DICKINSON UNIVERSITY - MADISON
18	1340	Regular Admit	LAS		CUNY BERNARD M. BARUCH COLLEGE
19	1330	Regular Admit	UND	SUSSEX COUNTY COMMUNITY COLLEGE	SUSSEX COUNTY COMMUNITY COLLEGE
20	1330	Regular Admit	PSY	SETON HALL UNIVERSITY	SETON HALL UNIVERSITY
21	1330	Regular Admit	COMM	JOHNSON C. SMITH UNIVERSITY	JOHNSON C. SMITH UNIVERSITY
22	1320	Regular Admit	UND	SPELMAN COLLEGE	SPELMAN COLLEGE
23	1320	Regular Admit	UND	RUTGERS -THE STATE UNIVERSITY OF NJ -NEW BRUNSWICK	RUTGERS -THE STATE UNIVERSITY OF NJ -NEW BRUNSWICK
24	1320	Regular Admit	BIO	NEW JERSEY INSTITUTE OF TECHNOLOGY	NEW JERSEY INSTITUTE OF TECHNOLOGY
25	1320	Regular Admit	CHEM	ARCADIA UNIVERSITY	ARCADIA UNIVERSITY

**Transfer GPA, Accepted Transfer Credits, Most Recent Prior Institution, and Institutions of Subsequent Enrollment of Students That Were Accepted to WPU but Declined Admission as a Transfer Student
(Sorted in Descending Order of Transfer GPA)**

	Transfer GPA	Accepted Transfer Credits	Most Recent Prior Institution	Fall 2007 Institution	Spring 2008 Institution	AA/AS Degree at Time of Acceptance	Student Graduated Between 8/20/07 and 3/19/08
1	4.00	88.0	WORLD EDUCATION SERVICES	FELICIAN COLLEGE	FELICIAN COLLEGE	No	No
2	4.00	50.0	BROOKDALE COMMUNITY COLLEGE	RUTGERS -THE STATE UNIVERSITY OF NJ -NEW BRUNSWICK	RUTGERS -THE STATE UNIVERSITY OF NJ -NEW BRUNSWICK	No	No
3	4.00	46.0	OCEAN COUNTY COLLEGE	KEAN UNIVERSITY	KEAN UNIVERSITY	No	No
4	4.00	45.0	ESSEX COUNTY COLLEGE	RUTGERS -THE STATE UNIVERSITY OF NJ -NEW BRUNSWICK	RUTGERS -THE STATE UNIVERSITY OF NJ -NEW BRUNSWICK	No	No
5	4.00	36.0	PALM BEACH JR. COLLEGE	UNIVERSITY OF CONNECTICUT	UNIVERSITY OF CONNECTICUT	No	No
6	4.00	27.0	COUNTY COLLEGE OF MORRIS	MONTCLAIR STATE UNIVERSITY	MONTCLAIR STATE UNIVERSITY	No	No
7	4.00	13.0	UNIV NC AT GREENSBORO	ST PETERS COLLEGE	ST PETERS COLLEGE	No	No
8	4.00	11.0	WARREN COUNTY COMM COLL	ROWAN UNIVERSITY	ROWAN UNIVERSITY	No	No
9	3.98	.	KATHERINE GIBBS SCH NJ	PASSAIC COUNTY COMMUNITY COLLEGE		No	No
10	3.95	68.0	SUSSEX COUNTY COMMUNITY COLL	SUSSEX COUNTY COMMUNITY COLLEGE		No	Yes
11	3.95	64.0	WARREN COUNTY COMM COLL	MONTCLAIR STATE UNIVERSITY	MONTCLAIR STATE UNIVERSITY	No	No
12	3.95	63.0	RARITAN VALLEY COMMUNITY COLL	RARITAN VALLEY COMMUNITY COLLEGE		Yes	No
13	3.95	50.0	BERGEN COMMUNITY COLLEGE	MONTCLAIR STATE UNIVERSITY	MONTCLAIR STATE UNIVERSITY	No	No
14	3.94	57.0	BROOKDALE COMMUNITY COLLEGE	RAMAPO COLLEGE OF NEW JERSEY	RAMAPO COLLEGE OF NEW JERSEY	No	No
15	3.94	55.0	DAYTONA BEACH C C	UNIVERSITY OF FLORIDA	UNIVERSITY OF FLORIDA	No	No
16	3.94	62.0	BERGEN COMMUNITY COLLEGE	BERGEN COMMUNITY COLLEGE	BERGEN COMMUNITY COLLEGE	No	No
17	3.93	45.0	MONTGOMERY COUNTY COMMUNITY CL	BLOOMSBURG UNIVERSITY OF PENNSYLVANIA	BLOOMSBURG UNIVERSITY OF PENNSYLVANIA	No	No
18	3.89	.	WHITWORTH COLL	WHITWORTH UNIVERSITY	WHITWORTH UNIVERSITY	No	No
19	3.88	59.0	BERGEN COMMUNITY COLLEGE	BERGEN COMMUNITY COLLEGE	BERGEN COMMUNITY COLLEGE	No	No
20	3.88	56.0	MERCER COUNTY COMMUNITY COLL	COLLEGE OF NEW JERSEY	COLLEGE OF NEW JERSEY	No	No
21	3.88	14.0	SACRED HEART UNIV	COLLEGE OF NEW JERSEY	COLLEGE OF NEW JERSEY	No	No
22	3.84	63.0	BURLINGTON COMMUNITY COLLEGE	ROWAN UNIVERSITY	ROWAN UNIVERSITY	No	No
23	3.83	14.0	PACE UNIV NYC	MONTCLAIR STATE UNIVERSITY	MONTCLAIR STATE UNIVERSITY	No	No
24	3.83	.	BERKELEY SCHOOL-LITTLE FALLS	PASSAIC COUNTY COMMUNITY COLLEGE		No	No
25	3.81	46.0	BERGEN COMMUNITY COLLEGE	MONTCLAIR STATE UNIVERSITY	MONTCLAIR STATE UNIVERSITY	No	No

Table 1 - Students Accepted to WPU in Fall 2007 as a First-Year Student but Declined Admission and Enrolled Elsewhere

		Institution of Subsequent Enrollment								
		Total	Public, 2-Year		Private, 2-Year		Public, 4-Year		Private, 4-Year	
			N	%	N	%	N	%	N	%
In-State	Bergen County	551	59	10.7%	1	.2%	340	61.7%	151	27.4%
	Passaic County	362	41	11.3%	1	.3%	224	61.9%	96	26.5%
	Essex County	260	19	7.3%	0	.0%	154	59.2%	87	33.5%
	Morris County	162	38	23.5%	0	.0%	90	55.6%	34	21.0%
	Middlesex County	152	20	13.2%	0	.0%	91	59.9%	41	27.0%
	Hudson County	152	16	10.5%	0	.0%	91	59.9%	45	29.6%
	Monmouth County	133	33	24.8%	0	.0%	62	46.6%	38	28.6%
	Union County	112	8	7.1%	0	.0%	77	68.8%	27	24.1%
	Camden County	60	12	20.0%	0	.0%	36	60.0%	12	20.0%
	Burlington County	57	12	21.1%	0	.0%	28	49.1%	17	29.8%
	Sussex County	49	17	34.7%	0	.0%	22	44.9%	10	20.4%
	Somerset County	49	6	12.2%	0	.0%	22	44.9%	21	42.9%
	Ocean County	48	8	16.7%	0	.0%	24	50.0%	16	33.3%
	Mercer County	35	9	25.7%	0	.0%	19	54.3%	7	20.0%
	Atlantic County	28	6	21.4%	0	.0%	16	57.1%	6	21.4%
	Warren County	24	3	12.5%	0	.0%	13	54.2%	8	33.3%
	Gloucester County	18	8	44.4%	0	.0%	7	38.9%	3	16.7%
	Hunterdon County	16	2	12.5%	0	.0%	10	62.5%	4	25.0%
	Cape May County	14	2	14.3%	0	.0%	6	42.9%	6	42.9%
	Cumberland County	7	1	14.3%	0	.0%	5	71.4%	1	14.3%
Salem County	4	1	25.0%	0	.0%	2	50.0%	1	25.0%	
Out-of-State	New York	61	10	16.4%	0	.0%	26	42.6%	25	41.0%
	Pennsylvania	14	2	14.3%	0	.0%	7	50.0%	5	35.7%
	Connecticut	15	2	13.3%	0	.0%	7	46.7%	6	40.0%
	Other States	35	4	11.4%	0	.0%	19	54.3%	12	34.3%
Missing		3	0	.0%	0	.0%	2	66.7%	1	33.3%
Total		2421	339	14.0%	2	.1%	1400	57.8%	680	28.1%

Table 2: Admission Data by Institution Type for First-Year Students That Were Accepted to WPU but Enrolled Elsewhere *

			N	CSAT	High School Rank	Academic Index
				Mean	Mean	Mean
Student was accepted to WPU as a first-year student but student enrolled elsewhere at this type of institution...	Public, 2-Year	In-State	317	951.0	56.3	199.3
		Out-of-State	22	979.1	50.2	199.8
		Total	339	952.8	55.9	199.3
	Public, 4-Year	In-State	1100	1014.4	68.2	211.4
		Out-of-State	300	1030.4	60.6	209.1
		Total	1400	1017.8	66.7	211.0
	Private, 4-Year	In-State	338	987.6	63.8	206.8
		Out-of-State	342	1029.9	63.2	211.8
		Total	680	1009.0	63.5	209.2
	In-State		1755	997.9	65.1	208.3
	Out-of-State		664	1028.0	61.4	210.1
Total		2419	1006.3	64.2	208.8	

* Due to a small N (N=2), mean data for students who enrolled at a Private, 2-Year institution is not displayed.

Table 3: Top Institutions of First Year Students that were Accepted to WPU and Enrolled at Another Public 4-Year Institution *

	N	CSAT	High School Rank	Academic Index
		Mean	Mean	Mean
MONTCLAIR STATE UNIVERSITY	401	990.1	65.6	207.8
RUTGERS -THE STATE UNIVERSITY OF NJ -NEW BRUNSWICK	144	1077.4	79.1	225.1
KEAN UNIVERSITY	141	952.7	56.5	198.6
RAMAPO COLLEGE OF NEW JERSEY	131	1059.2	73.1	218.0
RUTGERS - THE STATE UNIVERSITY OF NJ - NEWARK	92	1011.6	75.2	215.1
ROWAN UNIVERSITY	53	1069.8	67.5	214.4
RICHARD STOCKTON COLLEGE OF NEW JERSEY	45	1022.7	65.5	209.1
NEW JERSEY CITY UNIVERSITY	38	935.3	61.0	198.9
EAST STROUDSBURG UNIVERSITY	38	996.3	53.9	201.6
NEW JERSEY INSTITUTE OF TECHNOLOGY	25	1100.4	62.7	219.8
COLLEGE OF NEW JERSEY	25	1073.2	87.7	232.4
TEMPLE UNIVERSITY	23	1063.9	69.6	218.5
KUTZTOWN UNIVERSITY	16	965.6	49.6	194.8
PENNSYLVANIA STATE UNIVERSITY	15	1023.3	68.7	214.0
WEST VIRGINIA UNIVERSITY	14	981.4	44.5	191.0
WEST CHESTER UNIVERSITY	12	1048.3	63.4	213.4

Table 10: Admissions Data for Students who were Accepted but Declined Admission as a Transfer Student

		NSC Finding					
		No record of enrollment activity in Fall 2007 or Spring 2008		Student enrolled at another institution in Fall 2007 and/or Spring 2008		Total	
		N	%	N	%	N	%
Number of accepted transfer credits:	0	85	41.1%	122	58.9%	207	100.0%
	1-14	8	13.3%	52	86.7%	60	100.0%
	15-29	17	14.5%	100	85.5%	117	100.0%
	30-44	27	19.9%	109	80.1%	136	100.0%
	45-59	33	20.8%	126	79.2%	159	100.0%
	60+	53	30.6%	120	69.4%	173	100.0%
GPA of credits completed at all prior institutions:	Less than 2.0	3	27.3%	8	72.7%	11	100.0%
	2.00-2.49	32	19.9%	129	80.1%	161	100.0%
	2.50-2.99	74	24.7%	226	75.3%	300	100.0%
	3.00-3.49	38	19.5%	157	80.5%	195	100.0%
	3.50-4.00	24	20.2%	95	79.8%	119	100.0%

Table 11: Mean Admissions Data for Students who were Accepted but Declined Admission as a Transfer Student

		NSC Finding					
		No record of enrollment activity in Fall 2007 or Spring 2008		Student enrolled at another institution in Fall 2007 and/or Spring 2008		Total	
		Mean	Standard Dev.	Mean	Standard Dev.	Mean	Standard Dev.
Number of Accepted Transfer Credits		49.0	20.0	41.9	20.1	43.4	20.3
Transfer GPA		2.9	.5	2.9	.5	2.9	.5
Transfer GPA by number of accepted transfer credits:	0 accepted transfer credits	2.8	.4	2.9	.5	2.9	.4
	1-14 accepted transfer credits	3.2	.8	3.0	.6	3.1	.6
	15-29 accepted transfer credits	2.8	.5	2.8	.5	2.8	.5
	30-44 accepted transfer credits	2.8	.5	2.9	.5	2.9	.5
	45-59 accepted transfer credits	3.0	.5	2.9	.5	2.9	.5
	60+ accepted transfer credits	2.9	.4	3.0	.5	2.9	.4

Subsequent Institutions of Accepted Students who Declined Admission

	Accepted to William Paterson as a:					
	First-Year Student		Transfer Student		Total	
	N	%	N	%	N	%
MONTCLAIR STATE UNIVERSITY	455	82.0%	100	18.0%	555	100.0%
RUTGERS -THE STATE UNIVERSITY OF NJ -NEW BRUNSWICK	155	83.8%	30	16.2%	185	100.0%
KEAN UNIVERSITY	146	80.7%	35	19.3%	181	100.0%
RAMAPO COLLEGE OF NEW JERSEY	132	74.2%	46	25.8%	178	100.0%
ROWAN UNIVERSITY	110	84.6%	20	15.4%	130	100.0%
BERGEN COMMUNITY COLLEGE	77	69.4%	34	30.6%	111	100.0%
RUTGERS - THE STATE UNIVERSITY OF NJ - NEWARK	91	85.8%	15	14.2%	106	100.0%
SETON HALL UNIVERSITY	74	83.1%	15	16.9%	89	100.0%
FAIRLEIGH DICKINSON UNIVERSITY - MADISON	66	86.8%	10	13.2%	76	100.0%
FAIRLEIGH DICKINSON UNIVERSITY - TEANECK	60	93.8%	4	6.3%	64	100.0%
MONMOUTH UNIVERSITY	55	91.7%	5	8.3%	60	100.0%
COUNTY COLLEGE OF MORRIS	40	71.4%	16	28.6%	56	100.0%
COLLEGE OF NEW JERSEY	46	85.2%	8	14.8%	54	100.0%
RICHARD STOCKTON COLLEGE OF NEW JERSEY	40	76.9%	12	23.1%	52	100.0%
PASSAIC COUNTY COMMUNITY COLLEGE	29	59.2%	20	40.8%	49	100.0%
NEW JERSEY INSTITUTE OF TECHNOLOGY	44	91.7%	4	8.3%	48	100.0%
RIDER UNIVERSITY	42	89.4%	5	10.6%	47	100.0%
EAST STROUDSBURG UNIVERSITY	38	88.4%	5	11.6%	43	100.0%
MIDDLESEX COUNTY COLLEGE	35	83.3%	7	16.7%	42	100.0%
NEW JERSEY CITY UNIVERSITY	31	77.5%	9	22.5%	40	100.0%
BROOKDALE COMMUNITY COLLEGE	37	86.5%	5	13.5%	42	100.0%

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Questions and Comments