

# **SASI Advanced Query**



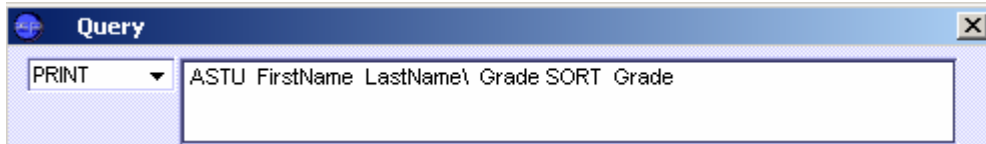
**Richland County School District One  
Instructional Technology Services  
2005**

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## Formatting a Query Print Report

When using the **Print** command, you can insert a line break by using a single backslash (\) **before** the field where you want the line break. You must use the **Sort** command with the field you want a line break on or this will not work.

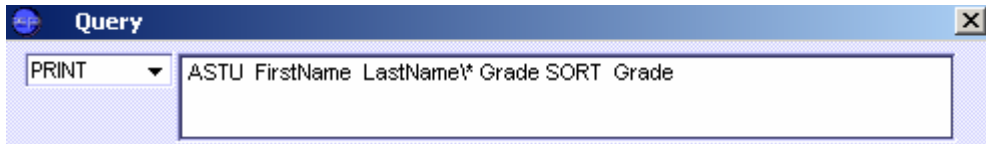


Page breaks are created by inserting two backslashes (\\) **before** the field that you want to page break on. **Sort** the field you want a page break on.



A line breaks and a page break cannot be used in the same query.

Characters can be inserted in the line break by typing the character directly after the backslash.

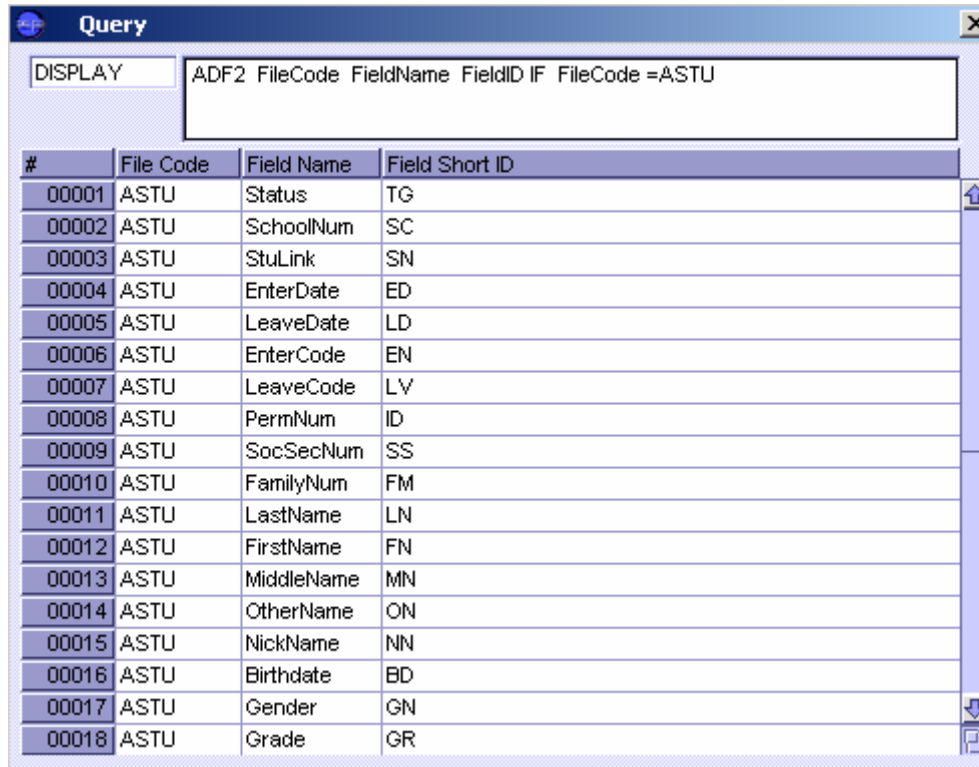


First Name	Last Name	Grade
Jessica	Renteria	09
Krystine	Rivera	09
Christopher	Rodriguez	09
Josh	Sandoval	09
Christian	Schiller	09
Jacob	Shaffer	09
Jason	Shaffer	09
Jaime	Smith	09
Kari	Solheim	09
Amanda	Sosa	09
Travis	Stevens	09
Sarah	Strang	09
Ryan	Swires	09
Michael	Vann	09
William	Walker	09
Brent	Ward	09
Elisa	Williams	09
Stephanie	Willis	09
Jenny	Winn	09
*****		
Jennifer	Archuno	10
Maria	Barrios	10
Austin	Beck	10
Tommy	Bedwell	10
Christopher	Betts	10
Jamahl	Betts	10
Roger	Brinkley	10
Maria	Burdick	10
Kellie	Caballero	10
Tana	Cahill	10
Aaron	Carpenter	10
Alicia	Carpenter	10
Lia	Childress	10
Shannon	Copetillo	10
Camille	Covington	10
Joshua	Crowder	10

## Using Abbreviations in Queries

Most fields in SASI have a two-letter abbreviation which can be used in queries. The query statement is limited to 255 characters. Use of abbreviations allows for more fields to be included in the query statement.

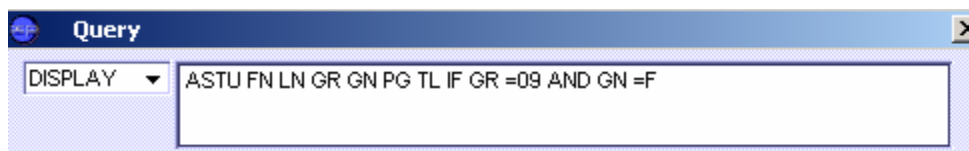
The following query can be used to find field abbreviations. You may want to print the abbreviations for easy reference.



The screenshot shows a window titled "Query" with a text input field containing the query: `ADF2 FileCode FieldName FieldID IF FileCode =ASTU`. Below the input field is a table with the following columns: #, File Code, Field Name, and Field Short ID. The table lists 18 rows of field abbreviations.

#	File Code	Field Name	Field Short ID
00001	ASTU	Status	TG
00002	ASTU	SchoolNum	SC
00003	ASTU	StuLink	SN
00004	ASTU	EnterDate	ED
00005	ASTU	LeaveDate	LD
00006	ASTU	EnterCode	EN
00007	ASTU	LeaveCode	LV
00008	ASTU	PermNum	ID
00009	ASTU	SocSecNum	SS
00010	ASTU	FamilyNum	FM
00011	ASTU	LastName	LN
00012	ASTU	FirstName	FN
00013	ASTU	MiddleName	MN
00014	ASTU	OtherName	ON
00015	ASTU	NickName	NN
00016	ASTU	Birthdate	BD
00017	ASTU	Gender	GN
00018	ASTU	Grade	GR

Following is an example of the use of field abbreviations to query FirstName, LastName, Grade, Gender, Parent/Guardian, Telephone if Grade = 9 and Gender = Female.



The screenshot shows a window titled "Query" with a text input field containing the query: `ASTU FN LN GR GN PG TL IF GR =09 AND GN =F`.

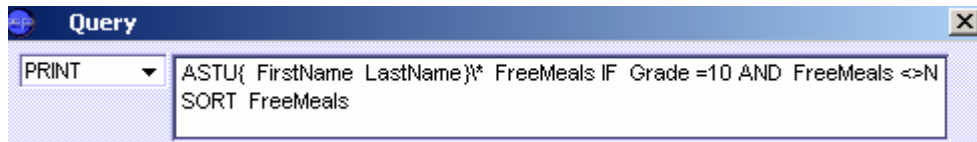
## Identifying SASI Files

The following query will give you a list of all SASI file abbreviations and file names. Note that South Carolina does not use all of these files.



## Concatenate

Concatenate joins two fields into one. When we concatenate the FirstName and LastName fields, both names will appear in one column. Concatenate two fields by enclosing them in braces separated by a space {FirstName LastName}.



The above query combines first names and last names into one field and shows us free and reduced meals for all 10<sup>th</sup> graders. It places a line break of asterisks (\*) when the free meals status changes. We had to use the **Print** command to get line breaks.

First Name C&T Last Name	Free/Reduced Meals Program
Tommy Bedwell	F
Christopher Betts	F
Jamahl Betts	F
Kyle Czudak	F
Chad Driggs	F
Charles Marley	F
Brian Maurer	F
Michael Moreno	F
Matthew Prue	F
Burton West	F
*****	
Jennifer Archuno	R
Austin Beck	R
Roger Brinkley	R
Aaron Carpenter	R
Shannon Copetillo	R
Joshua Crowder	R
Rhonda Douglass	R
Annette Driggs	R
Daniel Espinoza	R
Justin Feitzinger	R
Maria Garcia	R
Jane Gonzales	R
Justin Gradeless	R
Jenni Hamby	R
Anna Houy	R
Cody Inkel	R
Bill Kaiser	R
James Kelley	R
Melissa King	R
Jessie L heureux	R
David Longest	R
Mark Martinez	R

## Rename a Column Heading

Column headings can be renamed. In the concatenation example above, we could rename the **First Name CAT Last Name** heading to **Name**. Use braces {} to enclose the new column heading, an equal sign, and the field to be renamed.



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Name	Free/Reduced Meals Program
Tommy Bedwell	F
Christopher Betts	F
Jamahl Betts	F
Kyle Czudak	F
Chad Driggs	F
Charles Marley	F
Brian Maurer	F
Michael Moreno	F
Matthew Prue	F
Burton West	F
*****	
Jennifer Archuno	R
Austin Beck	R
Roger Brinkley	R
Aaron Carpenter	R
Shannon Copetillo	R
Joshua Crowder	R
Rhonda Douglass	R
Annette Driggs	R
Daniel Espinoza	R
Justin Feitzinger	R

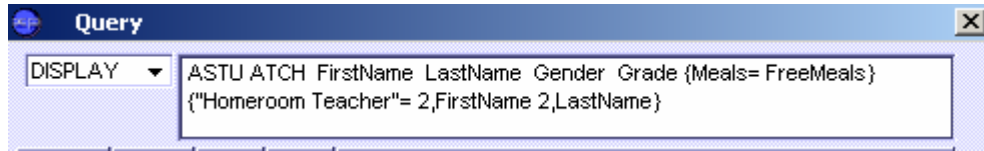
The following query will change the Free/Reduced Meals Program heading to **Meals**.



9:02PM 11/13/05 Secondary Demo

Name	Meals
Tommy Bedwell	F
Christopher Betts	F
Jamahl Betts	F
Kyle Czudak	F
Chad Driggs	F
Charles Marley	F

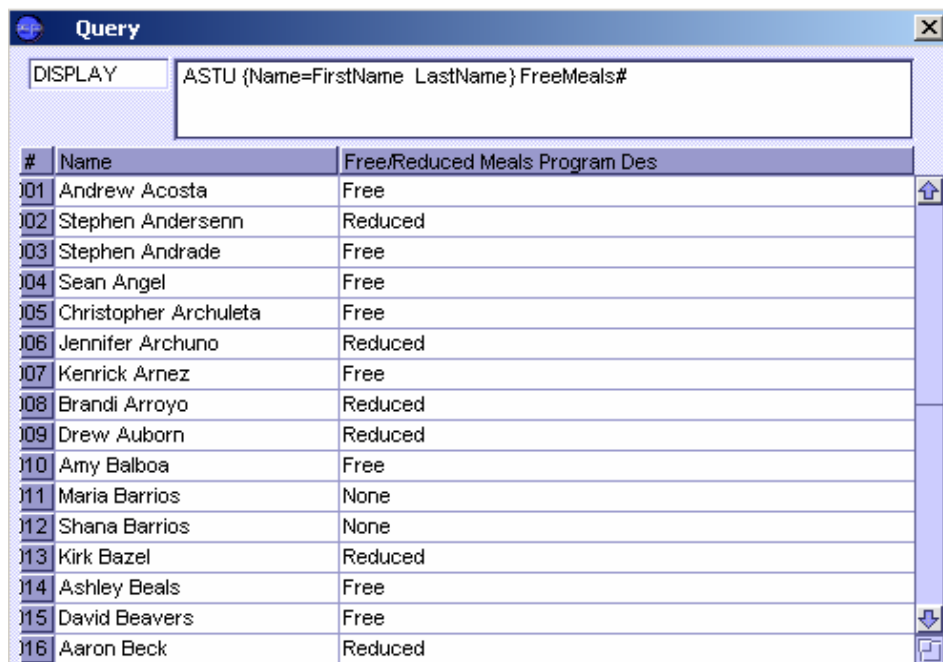
If the new column heading contains more than one word, the words must be placed in quotes. The following query renames the First Name Last Name column heading for the Advisor to Homeroom Teacher. Homeroom Teacher is placed in quotes because it is more than one word.



First Name	Last Name	Gender	Grade	Meals	Homeroom Teacher
Andrew	Acosta	M	11	F	Alice Anton
Stephen	Andersenn	M	12	R	Larry Arczynski
Stephen	Andrade	M	09	F	Alice Anton
Sean	Angel	M	11	F	Thomas Bell
Christopher	Archuleta	M	09	F	Alice Anton
Jennifer	Archuno	F	10	R	Anthony Bishop
Kenrick	Arnez	M	11	F	Thomas Bell
Brandi	Arroyo	F	11	R	Anthony Bishop
Tommy	Bedley	M	12	F	Anthony Bishop

## Show Descriptions

Descriptions can replace codes by placing the pound sign (#) after the field name in the query. In the query below, placing the # after FreeMeals replaces F, R, and N with Free, Reduced, and None.



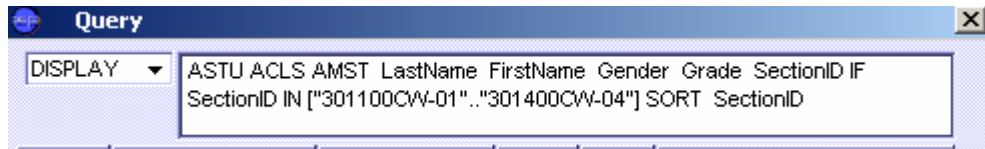
## Selecting a Query Range

Specific data or a range of data can be included in a query. The **IN** condition is used to indicate a range. The range is placed inside brackets. The following query will find all students taking courses 301100CW-01 and 301400CW-04. The specific data is placed in quotation marks and separated by a comma. The entire range is placed in brackets.

```
Query
PRINT ASTU ACLS AMST LastName FirstName Gender Grade SectionID IF
SectionID IN ["301100CW-01","301400CW-04"] SORT SectionID
```

Beck	Jerry	M	09	301100CW-01
Blaylock	Sherry	F	09	301100CW-01
Buhl	Jennifer	F	09	301100CW-01
Chamberlain	Diego	M	09	301100CW-01
Crowder	Jacob	M	09	301100CW-01
Dickey	Angelique	F	09	301100CW-01
Frizzell	Samuel	M	09	301100CW-01
Gelinas	Maggie	F	09	301100CW-01
Gettler	Jonathan	M	09	301100CW-01
Gholston	Christopher	M	09	301100CW-01
Hall	Sarah	F	09	301100CW-01
Locke	Joseph	M	09	301100CW-01
McKeon	Katrina	F	09	301100CW-01
Mehan	Alicia	F	09	301100CW-01
Oetter	Kasey	F	09	301100CW-01
Quist	Saxton	M	09	301100CW-01
Rodriguez	Christopher	M	09	301100CW-01
Schiller	Christian	M	09	301100CW-01
Smith	Jalme	F	09	301100CW-01
Stevens	Travis	M	09	301100CW-01
Swires	Ryan	M	09	301100CW-01
Vann	Michael	M	09	301100CW-01
Walker	William	M	09	301100CW-01
Burdick	Kristan	F	12	301400CW-04
Carpen	Aaron	M	12	301400CW-04
Chi	Lia	F	12	301400CW-04
Ellison Jr	Jessica	F	12	301400CW-04
Ford	Janella	F	12	301400CW-04
Kolhepp	Rachel	F	12	301400CW-04
Marshall	Wanda	F	12	301400CW-04
McKeon	Carl	M	12	301400CW-04
McMahon	Stacey	F	12	301400CW-04
Middleton	Veronica	F	12	301400CW-04
Mitchell	Cassie	F	12	301400CW-04
Paquette	Phillip	M	12	301400CW-04
Price	Marisabel	F	12	301400CW-04
Renton	Jessica	F	12	301400CW-04
Rivera	Heather	F	12	301400CW-04
Schilling	Elizabeth	F	12	301400CW-04

The query below will find all students taking courses within the 301100CW-01 and 301400CW-04 range. The condition begins with **IN** and is placed in brackets. The beginning and ending data are placed in quotation marks and separated by two dots (..).



Gelinas	Maggie	F	09	301100CW-01
Gettler	Jonathan	M	09	301100CW-01
Gholston	Christopher	M	09	301100CW-01
Hall	Sarah	F	09	301100CW-01
Locke	Joseph	M	09	301100CW-01
McKeon	Katrina	F	09	301100CW-01
Mehan	Alicia	F	09	301100CW-01
Oetter	Kasey	F	09	301100CW-01
Quist	Saxton	M	09	301100CW-01
Rodriguez	Christopher	M	09	301100CW-01
Schiller	Christian	M	09	301100CW-01
Smith	Jaime	F	09	301100CW-01
Stevens	Travis	M	09	301100CW-01
Swires	Ryan	M	09	301100CW-01
Vann	Michael	M	09	301100CW-01
Walker	William	M	09	301100CW-01
Beals	Ashley	F	09	301100CW-02
Beavers	David	M	09	301100CW-02
Benware	Cody	M	09	301100CW-02
Briggs	Elizabeth	F	09	301100CW-02
Buell	Ryan	M	09	301100CW-02
Dent	Veronika	F	09	301100CW-02
Duran	Justin	M	09	301100CW-02
Fernandez	Tamara	F	09	301100CW-02
Fish	Benjaman	M	09	301100CW-02
Frazer	Summer	F	09	301100CW-02
Harvey	Matthew	M	09	301100CW-02
Kahler	Alberto	M	09	301100CW-02
Kreider	Melissa	F	09	301100CW-02
Magnusson	James	M	09	301100CW-02
McCall	Peter	M	09	301100CW-02
Mills	Misty	F	09	301100CW-02
Mitchell	Daniel	M	09	301100CW-02
Myers	Gillian	F	09	301100CW-02
Rivera	Krystine	F	09	301100CW-02
Sandoval	Josh	M	09	301100CW-02
Solheim	Kari	F	09	301100CW-02
Williams	Elisa	F	09	301100CW-02
Winn	Jenny	F	09	301100CW-02
Andrade	Stephen	M	09	301100CW-03
Bedker	Nicholas	M	09	301100CW-03
Black	Amanda	F	09	301100CW-03
Borner	Aaron	M	09	301100CW-03
Brown	Erin	F	09	301100CW-03
Bruton	Adam	M	09	301100CW-03
_	_	--	--	-- . . . . . --

## Unique Fields

Specifying a unique field will display only the first occurrence of that field. Any of the following terms can specify a unique field – **UF**, **UNIQUE**, **UNIQ**, or **ONCE**. The term to make the field unique must appear after the field that should appear only once.

The following query will list each parent/guardian and their address only once. This could be used to create Word Mail Merge labels or to create SASI labels using the Labels command.

Labels to merge with Microsoft Word



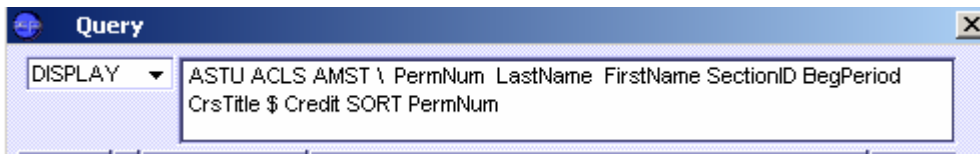
Labels created in SASI



## Total and Count

Inserting the \$ sign before a numeric field in a query statement will give you a total for that field. It will place an equal sign (=) before the total for each different occurrence. There must be a line break (\) before the field that you want to break on to provide a line in which the total is printed. It will also give a grand total at the end of the Query. Total only works with the **Print** command.

The following query will print student classes and the total number of credits for each student. The backslash is placed before the student's last name since we want to break on each student to total the credits for each student. The total number of credits for all students prints at the end of the report.



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Student ID	Last Name	First Name	Section ID	Beginning Period	Course Title	Credit
990990992175	Evans	Angela	411100CW-02	02	Algebra1	1.00
990990992175	Evans	Angela	365100CH-04	05	Spanish1	0.50
990990992175	Evans	Angela	353100CH-02	05	Band1	0.50
990990992175	Evans	Angela	326500CW-04	04	Earth Science	1.00
990990992175	Evans	Angela	301100CW-03	03	English1	1.00
990990992175	Evans	Angela	344100CW-04	06	PE 1	1.00
990990992175	Evans	Angela	333500CW-01	01	Civics	1.00
						= 6.00
990990992176	Balboa	Amy	411100CW-01	01	Algebra1	1.00
990990992176	Balboa	Amy	365100CH-03	05	Spanish1	0.50
990990992176	Balboa	Amy	353100CH-01	05	Band1	0.50
990990992176	Balboa	Amy	326500CW-03	03	Earth Science	1.00
990990992176	Balboa	Amy	301100CW-04	04	English1	1.00
990990992176	Balboa	Amy	344100CW-04	06	PE 1	1.00
990990992176	Balboa	Amy	333500CW-02	02	Civics	1.00
						= 6.00
990990992177	Felker	Crystal	411100CW-02	02	Algebra1	1.00
990990992177	Felker	Crystal	365100CH-04	05	Spanish1	0.50
990990992177	Felker	Crystal	353100CH-02	05	Band1	0.50
990990992177	Felker	Crystal	326500CW-04	04	Earth Science	1.00
990990992177	Felker	Crystal	301100CW-03	03	English1	1.00
990990992177	Felker	Crystal	344100CW-04	06	PE 1	1.00
990990992177	Felker	Crystal	333500CW-01	01	Civics	1.00
						= 6.00

Totals can also be obtained for non-numeric fields using \$ {001}. There must be a space between the dollar sign and the bracket. The **Print** command must be used.

The following query totals the students by ethnic code within each course section.

First Name	Last Name	Grade	Section ID	Course Title	Ethnic Code	001
Diego	Chamberlain	09	301100CW-01	English1	B	001
Kasey	Oetter	09	301100CW-01	English1	B	001
Christopher	Rodriguez	09	301100CW-01	English1	B	001
						= 3
Jacob	Crowder	09	301100CW-01	English1	H	001
Samuel	Frizzell	09	301100CW-01	English1	H	001
Jonathan	Gettler	09	301100CW-01	English1	H	001
						= 3
Maggie	Gelinas	09	301100CW-01	English1	P	001
						= 1
Jerry	Beck	09	301100CW-01	English1	W	001
Sherry	Blaylock	09	301100CW-01	English1	W	001
Jennifer	Buhl	09	301100CW-01	English1	W	001
Angelique	Dickey	09	301100CW-01	English1	W	001
Christopher	Gholston	09	301100CW-01	English1	W	001
Sarah	Hall	09	301100CW-01	English1	W	001
Joseph	Locke	09	301100CW-01	English1	W	001
Katrina	McKeon	09	301100CW-01	English1	W	001
Alicia	Mehan	09	301100CW-01	English1	W	001
Saxton	Quist	09	301100CW-01	English1	W	001
Christian	Schiller	09	301100CW-01	English1	W	001
Jaime	Smith	09	301100CW-01	English1	W	001
Travis	Stevens	09	301100CW-01	English1	W	001
Ryan	Swires	09	301100CW-01	English1	W	001
Michael	Vann	09	301100CW-01	English1	W	001
William	Walker	09	301100CW-01	English1	W	001
						= 16
Ashley	Beals	09	301100CW-02	English1	B	001
Ryan	Buell	09	301100CW-02	English1	B	001
						= 2

**Count** totals as it searches. Once it reaches the number asked for, it will display the information. Count is preceded by the dollar sign (\$) and the **\$Count** must be in the **IF** portion of the query. You can specify a specific number by using the = symbol or use the greater than > condition.

The following query finds all students who have eight courses in their schedule.

#	Last Name	First Name	Course ID
00001	Archuno	Jennifer	336000CH
00002	Barrios	Maria	336000CH
00003	Beck	Austin	301200CW
00004	Bedwell	Tommy	301200CW
00005	Betts	Christopher	301200CW
00006	Betts	Jamahl	336000CH
00007	Brinkley	Roger	336000CH
00008	Burdick	Maria	301200CW
00009	Caballero	Kellie	365200CH
00010	Cahill	Tana	365200CH
00011	Carpenter	Aaron	336000CH
00012	Carpenter	Alicia	365200CH
00013	Childress	Lia	365200CH
00014	Copetillo	Shannon	365200CH
00015	Covington	Camille	336000CH
00016	Crowder	Joshua	365200CH

This query will find all students who were absent two or more days and coded as unverified or medical.

The screenshot shows a window titled "Query" with a dropdown menu set to "DISPLAY". The query text is: `ASTU A,ATP FirstName LastName IF PerAbs IN ["A", "M"] AND $COUNT = 2`. Below the query is a table with three columns: "#", "First Name", and "Last Name".

#	First Name	Last Name
00001	Victoria	Marshall
00002	Wanda	Marshall
00003	Ted	Martin

## \$Date

\$Date uses the current calendar date in a query. The query below will list students with their age as of the current date.

The screenshot shows a window titled "Query" with a dropdown menu set to "DISPLAY". The query text is: `ASTU LastName FirstName {Age = (($Date - Birthdate)/10000)}`. Below the query is a table with four columns: "#", "Last Name", "First Name", and "Age".

#	Last Name	First Name	Age
00007	Arnez	Kenrick	18
00008	Arroyo	Brandi	18
00009	Auborn	Drew	18
00010	Balboa	Amy	16
00011	Barrios	Maria	17
00012	Barrios	Shana	19
00013	Bazel	Kirk	18
00014	Beals	Ashley	16
00015	Beavers	David	16
00016	Beck	Aaron	18
00017	Beck	Austin	17
00018	Beck	Jerry	16
00019	Bedker	Nicholas	16
00020	Bedley	Tommy	19
00021	Bedwell	Tommy	17
00022	Benit	Ashlie	18

# Expressions

An expression allows users to create new data from existing data by adding, subtracting, multiplying or dividing fields. Expressions can also be used to add your own words or data to a query report.

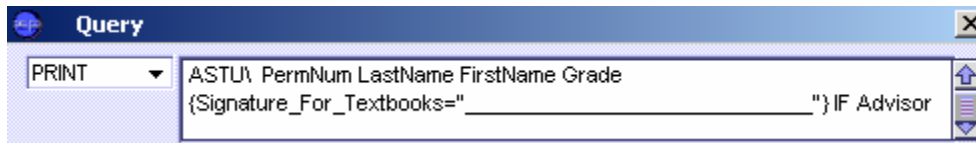
The following query creates a teacher checklist for homework assignments.



11:58AM 11/14/05 Secondary Demo

Teacher Name	Last Name	First Name	Homework	Telephone Number
Anton	Esparza	Jeffrey	_____	714-555-1357
Anton	Franklyn	Jonathon	_____	714-555-1010
Anton	Gel	Jona	_____	714-555-9333
Anton	Hane	Katy	_____	714-555-3232
Anton	Kemp	Lauren	_____	714-555-3030
Anton	Lacky	Taylor	_____	
Anton	Linsey	Kathy	_____	714-555-2525
Anton	Mienke	Charles	_____	714-555-8080
Anton	Nadin	Brittany	_____	714-555-7000
Anton	Park	Darby	_____	714-555-4904
Anton	Pet	Mike	_____	714-555-8360
Anton	Pino	Madison	_____	714-555-4706
Anton	Quist	Kari	_____	714-555-7166
Anton	Robin	Andrew	_____	714-555-8898
Anton	Robinson	Erick	_____	
Anton	Sandoval	Barbara	_____	714-555-2015
Anton	Whitehouse	Jeffrey	_____	714-555-6969
Anton	Whitson	Christina	_____	714-555-1993
Anton	Whitson	Teresa	_____	714-555-1993

This query creates a sheet for students to sign when receiving textbooks.



11:55AM 11/14/05 Secondary Demo

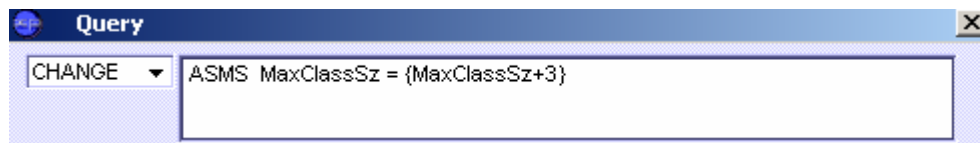
Student ID	Last Name	First Name	Grade	Signature_For_Textbooks
990990993	Barrios	Maria	10	_____
990990992	Beals	Ashley	09	_____
990990992	Beavers	David	09	_____
990990993	Beck	Aaron	11	_____
990990993	Beck	Austin	10	_____

## Mathematical Expressions

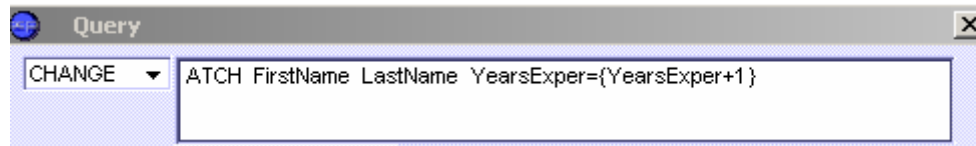
The following operators can be used in an expression.

+	Add
-	Subtract
*	Multiply
/	Divide

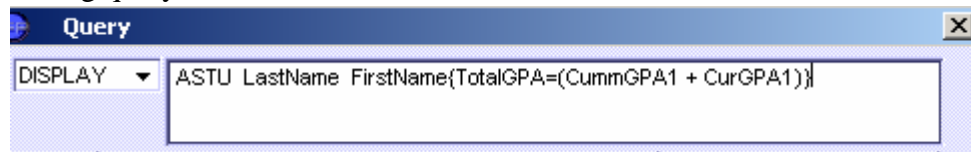
The query below is a mass change that will add 3 to the maximum size of every section in the Scheduling Sections atom of the Mass Scheduling module



This mass change query will add 1 to the number of years experience for each teacher.



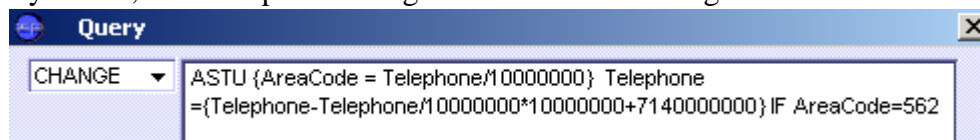
The following query will add the current GPA to the cumulative GPA.



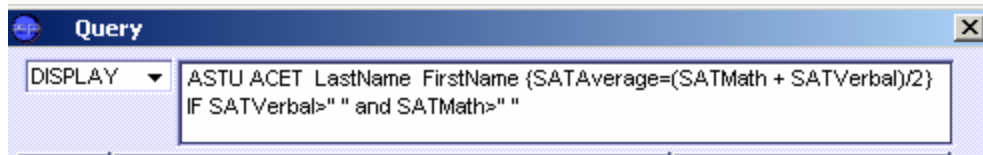
This query will give the difference if the GPA has increased or decreased from one marking period to the next marking period. The first marking period GPA must be moved to a User Code. In this query User Code 8 displays the first marking period.



In the query below, the multiplication sign is used to mass change area code 562 to 714.



The query below will use the divide sign to display the average SAT score when two tests are taken.



## Grade Query Tip

When writing queries on Grade files, remember that the field "Mark" is the actual grade (95, 87, 69, etc.) The field "MarkNum" is the reporting period (First Quarter, Second Quarter, etc.),

0	First Quarter
1	Second Quarter
2	First Semester Final Grade
3	Third Quarter
4	Fourth Quarter
5	Second Semester Final Grade
6	Final Grade

## Other SASI Resources

User Manuals for the S.C. Atoms

<http://www.myschools.com/offices/tech/dts/ManualsforSCAtoms.htm>

SASI Handouts and Training Manuals Used during Training Sessions at the Conway Regional Technology Center

<http://www.myschools.com/offices/tech/rtc/coas/services.htm>

S. C. District Technology Services Helpful Documents

<http://www.myschools.com/offices/tech/dts/TechDocs.cfm>

Resources:

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S. C. District Technology Services

NCS Pearson

## Discipline Queries

Students' Discipline Infractions – Show Inactive Records

ADIS ASTU LastName FirstName DescCode DispCode DispDesc

Students' Discipline Infractions with Associated Disposition – Show Inactive Records

ADIS ASTU AADD LastName FirstName DescCode Descript DispCode DispDesc

Students' Discipline Infractions with Associated Disposition for Only Discipline  
Infractions with Code 135, 205, 420, 340

ADIS ASTU AADD LastName FirstName DescCode Descript IF DescCode IN  
[135,205,420,340]

Students' With Disposition Code of Suspension

ADPO ASTU DispCode DispDesc Dispstrtdt LastName FirstName Grade Gender  
EthnicCode IF DispCode = SUS

Students' Discipline Infractions Ordered by Referredby and Page Break at Each New  
Referredby (Must use Print command with page breaks)

ADIS ASTU AADD \\ Referredby DescCode Descript LastName FirstName SORT  
Referredby

Student Referrals by Teacher

ASTU ADIS LastName FirstName Referredby SORT Referredby

Students With More Than Ten Referrals

ASTU ADIS LastName FirstName IF DescCode > 1 AND \$COUNT > 10

List of Free and Reduced Meals Students Suspended With Their Respective Offenses

ASTU ADIS LastName FirstName DescCode FreeMeals IF (DispCode = SUS AND  
FreeMeals = F) OR (DispoCode = SUS AND FreeMeals = R)

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Resources:

Horry County School District