

# SAS!xp Advanced Query



Rick Tanski  
Assistant Principal  
Falcon High School  
9755 Towner Ave  
Falcon, CO 80831  
rtanski@d49.org

CSUG Conference  
February 9-10, 2004

# Advanced Query

## ➤ Matrices using existing forms for quick queries

- Queries using drop down boxes
  - Quick counts (Use with KEEP Active Filter for accurate counts)
    - All students
    - By Grade
    - By Grade and Gender
    - All SPED students
    - All 9<sup>th</sup> grade males
- Use to find by Enter Code (Student & Enrollment Atoms)
  - Helpful for E3 –Transfer from out of state codes
    - >=100103

## ➤ Use of Wild Cards and Operands

- Student
  - All 9<sup>th</sup> grade females with advisors (*Use Data → Sort List*)
  - Last name begins with "O" (Use |- O')
- Parent Atom
  - Kids whose parents work for Peterson AFB (Use :Peterson)
- Enrollment
  - Enter Date 08/06/03 Enter Code \* Leave Date 08/29/03 Leave Code > " " Versus
  - ASTU AENR PermNum Status LastName FirstName MiddleName 1,Grade Gender Birthdate EnterDate 1,EnterCode LeaveDate 1,LeaveCode IF EnterDate = 080603 AND EnterCode > " " AND LeaveDate = 082903 AND LeaveCode > " " AND TransYear = 03

## ➤ Some Basics

Assign students to Advisors who are 2<sup>nd</sup> period teachers

▾ ASTU ACLS AMST AN = TchNum IF BegPeriod = 02 AND TermCode > "S1"

Check which students do not have an advisor

▾ ASTU LN FN GR IF AN = " "

Check which students do not have an advisor by instructional setting

▾ ASTU LN FN GR InstrSet IF AN = " " AND InstrSet IN [" ", "SE", "504"]

## ➤ Filters

Make filters for the following

Active Students

- ▾ ASTU Status IF Status = " "

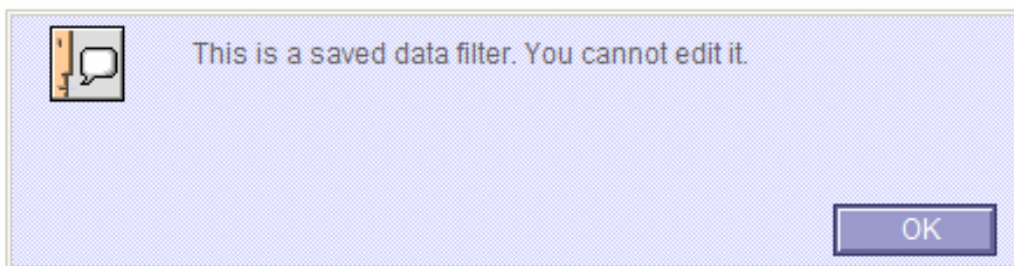
Each Grade Level

- ▾ ASTU Status IF GR = 09

Each Teacher/Advisor (as Needed)

- ▾ ASTU AN IF AN = 84

Saved data filters



Try this

- ▾ ASTU ASGR LN GroupCode IF GroupCode IN ["BBB", "CH", "GBB", "WREST", "HOC"]
  - Save it as a display with (KEEP) in the title
  - (KEEP) vs KEEP in labeling conventions



## ➤ Operands, Math, & Misc

- GPA for a group –renaming a column
  - `DISPLAY ▼ ASTU ASGR LN FN GR {"1st Sem GPA" =U6} IF GroupCode = "SC".`
- Students with courses that begin with AP
  - `PRINT ▼ ASTU ACLS AMST \ ID LN FN GR CrsTitle IF CrsTitle |- "AP"`
- Overfull Classes
  - `PRINT ▼ AMST \- CrsTitle TchName BegPeriod TermCode TotStus[0] MaxClassSz {Difference = (TotStus-MaxClassSz)} IF TotStus > MaxClassSz SORT CrsTitle BegPeriod`
- Age as of today
  - `DISPLAY ▼ ASTU LastName FirstName {"Age Today" = (($Date-bd)/10000)}`
- Attendance check boxes
  - `ASTU ATCH {"Student Name" = (FN+++LN)} \ {"Homeroom Teacher" = (2,FN 2,LN AN)} "Oct. Count Attendance " "|_|_|_|_|_|" SORT 2,LN 1,LN`
- ILP Labels
  - `ASTU " \ " ILP STUDENT INFORMATION" \ " " FN " " LN ", DOB:" BD\ " Primary Language: " PL#\ " Native Language: " HL#\ " Proficiency: " EP#\ " Enter Date: " OD\ " " ILP_Coordinator_____ SORT EP^`

## ➤ Export to Excel

- To Export Lists from SASIxp
  - Write the query using DISPLAY and click *Do* or use a matrix.
  - Click Data → Export List.
  - Select where you want to save the file and give it a name.
    - For PC's add the xls extension.
    - No extension is needed for Mac computers.
  - Click *Save* for a PC or *OK* for a Mac.
  - Go to the location where you saved the xls file and double click to open it. You can now manipulate and sort the data as needed.



# Query Conditions

IF	Denotes the start of all conditions which must be met by the data produced by a query
SORT	Specifies the field or fields by which query data should be sorted; must be followed by one or more data fields.
AND	Denotes the start of an additional condition.
OR	Denotes the start of an alternative condition.
=	(Equals) Specifies any data and/or constant that query data must match; enter data after this symbol.
<	(Less Than) Specifies any data and/or constant that query data must be less than; enter data after this symbol.
<=	(Less Than or Equal To) Specifies any data and/or constant that query data must be less than or equal to; enter data after this symbol.
>	(Greater Than) Specifies any data and/or constant that query data must be greater than; enter data after this symbol.
>=	(Greater Than or Equal To) Specifies any data and/or constant that query data must be greater than or equal to; enter data after this symbol.
<>	(Not Equal) Specifies any data and/or constant that query data must not match; enter data after this symbol
:	(Contains) Specifies any data and/or constant that query data must contain; enter data after this symbol.
;	(Does not contain) Specifies any data and/or constant that query data must not contain enter data after this symbol.
-	(Begins With) Specifies that letter(s) or number(s) that query data must begin with. NOTE: This function does not work when running queries on Date fields.
-	(Ends With) Specifies that letter(s) or number(s) that query data must end with. NOTE: This function does not work when running queries on Date fields.
(	Sets off multiple query conditions and must be used with a closing parentheses. The parentheses should be preceded by the word IN. You can use , (comma), AND, and OR to separate conditions inside parentheses.
)	Sets off multiple query conditions and must be used with an opening parentheses.
IN	Indicates that query data must fall within data groupings specified inside ( ) (parentheses) that follow or within the range [ ] (brackets) that follow. You can use , (comma), AND, and OR to separate data fields inside parentheses. Use .. (ellipses) to separate data fields at the start and end of a range.
[	Sets off the data range query data must fall in; must be used with a closing bracket. The brackets would be preceded by the word IN. Use.. (ellipses) between the beginning and end of the range.
]	Sets off the data range query data should fall in; must be used with opening bracket.
..	Ellipses must be used to separate data fields at the start and end of the range query data must fall in.
,	Commas can be used to separate conditions query data must meet.
#	To print the description in a query instead of the code on a display or print query, put the # sign after the selected field from the associated file's field.
\	Place before a file code you want a line break on and a blank line will be between the next line and the previous line of data.
\\	Put this before a file code you want a page break on and a new page will be printed with the same data gathered.
"\"	A backslash with any symbol (., +, =, -, etc.) will give a line break after the file code selected with a line of the selected symbol between data.

# ASTU 2 Letter Field Codes

Advisor	AN
AltLocker	L2
AttPrmCode	PC
AttPrmDate	PD
AutoDial	ND
BalCode	BC
Birthdate	BD
BirthMeth	BV
Birthplace	BP
BusInfo	BI
BusInfo2	B2
City	CY
ClassRank1	R1
ClassRank2	R2
ClassRank3	R3
ClassRank4	R4
ClassSize	SZ
Comp_Ed	MG
ConclsHome	CH
ConcSchool	CS
Counselor	CN
CredAtmpt	CA
CredEarned	CC
CummAvg1	A1
CummAvg2	A2
CummAvg3	A3
CummAvg4	A4
CummGPA1	T1
CummGPA2	T2
CummGPA3	T3
CummGPA4	T4
CurGPA1	G1
CurGPA2	G2
CurGPA3	G3
CurGPA4	G4
CurRptAvg1	C1
CurRptAvg2	C2
CurRptAvg3	C3
CurRptAvg4	C4
CustomTag1	P1
CustomTag2	P2
DistrictRes	DR
DrvTrnDate	DD
DrvTrnElg	DT

EligAda	EA
EngProf	EP
EnterCode	EN
EnterDate	ED
EnterGrade	EG
EthnicCode	EC
FamilyLink	FL
FamilyNum	FM
FeeBal	FB
FirstName	FN
FosterHome	FH
FreeMeals	FR
Gender	GN
Gifted	GT
GradDate	GD
Grade	GR
GrdAverage	GA
GridCode	GC
HighPeriod	HI
HnrRollTag	HT
Homeless	HM
HomeLng	HL
HomeLngCor	CL
HomeRoom	RM
House	HO
InstrSet	IS
LastName	LN
LastSchool	LS
LeaveCode	LV
LeaveDate	LD
LocatorTag	LT
Locker	LK
LowPeriod	LO
MailAddr	AD
MiddleName	MN
Migrant	MG
MsgCode	MC
NextGrade	NG
NextSchool	NS
NextTrack	NT
NickName	NN
OrigEntCd	OC
OrigEntDt	OD
OrigYrGrad	OG

OtherName	ON
PctApport	PA
PermNum	ID
PEWaiver	PE
PostSecond	PS
PriDayEnr	PE
PrimaryLng	PL
PrntGuard	PG
QueryTag	QT
Refugee	RI
ResAddr	RA
ResAptNum	AP
ResCity	RC
ResFract	RF
ResHouse	HN
ResState	RS
ResStDir	SD
ResStName	RN
ResStType	TY
RestDirInf	RD
ResZipCode	RZ
Retain	RT
SchlsStuLk	SN
SchoolNum	SC
SchoolRes	SR
SocSecNum	SS
State	ST
Status	TG
StuLink	SN
TeamNum	TN
Telephone	TL
Track	TR
UnlistTel	UL
USCitizen	CZ
UserCd1	U1
UserCd2	U2
UserCd3	U3
UserCd4	U4
UserCd5	U5
UserCd6	U6
UserCd7	U7
UserCd8	U8
UserCd9	U9
ZipCode	ZC