



PeopleSoft Query - Subqueries



HEUGUM 2012 • October 5, 2012

NIU and PeopleSoft – Campus Solutions

- **Campus Solutions v8.9 Go-Live**
 - Admissions – September 2007
 - Student Records, Academic Advising, Transfer Credit, Financial Aid, Student Financials – March 2008
- **Campus Solutions 9.0 Upgrade – April 2011**
- **Exadata Migration – October 2011**
- **Oracle 11g Database – November 2011**
- **PeopleTools 8.52 Upgrade – August 2012**



NIU Information

- **Summer 2012 Enrollment – 7,348 students**
- **Fall 2012 Enrollment – 22,000**

- **Typical Number of Sections Offered**
 - 5,800 Fall
 - 5,600 Spring
 - 1,460 Summer



Overview

- **What is a subquery?**
 - A query within a query
 - Checks for existence or non-existence
 - Select a minimum or maximum value of a field without specifying that value in the 'top level' of the query



Five Subqueries Covered

- **Subquery that will**
 - Identify the first term of enrollment
 - Identify the most recent academic standing for currently enrolled students
 - List two ethnicities on one row
 - Return one address per student, regardless of address type
 - Check for existence of a specific value of a field and select students based on that existence (2 separate examples)



Identify First Term of Enrollment - 1

- **Scenario**

- Bachelor of General Studies Advisor wants a list of all currently enrolled BGS students with their first term and related term data



Identify First Term of Enrollment - 2

- Create a query to identify currently enrolled BGS students
 - Records, Tables & Views

First instance of STDNT_CAR_TERM is used to identify the current term of enrollment

Second instance is used for term data on all other terms, in order of first to latest, or current, term

Query Name: NIU_SR_HEUGUM_SUBQUERY1_BEFORE Description: First Term

Click folder next to record to show fields. Check fields to add to query. Uncheck fields to remove from query. Add additional records by clicking the records tab. When finished click the fields tab.

| Alias | Record | Hierarchy Join |
|-------|--|------------------------------------|
| A | STDNT_CAR_TERM - Student Career Term Table | Hierarchy Join [-] |
| B | ACAD_PROG - Student Academic Program | Hierarchy Join [-] |
| C | ACAD_PLAN - Student Academic Plan Table | Hierarchy Join [-] |
| D | SCC_NAMES_QVW - Person Names Query View | Hierarchy Join [-] |
| E | STDNT_CAR_TERM - Student Career Term Table | Hierarchy Join [-] |
| F | TERM_TBL - Term Definition Table joined with E.STRM - Term | Hierarchy Join [-] |



Identify First Term of Enrollment - 3

- Add Term fields needed – Term, Total Hours, Term and Cumulative GPAs

Favorites | Main Menu > Reporting Tools > Query > Query Manager

Records Query Expressions Prompts Fields Criteria Having View SQL Run

Query Name NIU_SR_HEUGUM_SUBQUERY1_BEFORE Description First Term [Feed](#)

View field properties, or use field as criteria in query statement. [Reorder / Sort](#)

| Col | Record.FieldName | Format | Ord | XLAT | Agg | Heading Text | Add Criteria | Edit | Delete |
|-----|--|--------|-----|------|-----|-----------------|--------------|----------------------|-------------------|
| 1 | substr(D.LAST_NAME,1,1) substr(D.FIRST_NAME,1,1) substr(D.MIDDLE_NAME,1,1) substr(A.EMPLID, | Char8 | 1 | | | ID | | Edit | - |
| 2 | F.DESCR - Description | Char30 | | | | Term | | Edit | - |
| 3 | E.TOT_CUMULATIVE - Total Cumulative Units | Num6.3 | | | | Total Hours | | Edit | - |
| 4 | E.CUR_GPA - Current GPA | Num6.3 | | | | Term GPA | | Edit | - |
| 5 | E.CUM_GPA - Cumulative GPA | Num6.3 | | | | Cumulative GPA | | Edit | - |
| 6 | E.STRM - Term | Char4 | 2 | | | Term (for sort) | | Edit | - |

[Save](#) [Save As](#) [New Query](#) [Preferences](#) [Properties](#) [Publish as Feed](#) [New Union](#) [Return To Search](#)



Identify First Term of Enrollment - 4

| ID | Term | Total Hours | Term GPA | Cumulative GPA | Term (for sort) |
|----------|-------------|-------------|----------|----------------|-----------------|
| AA 34144 | Spring 2012 | 98.800 | 4.000 | 4.000 2122 | |
| AA 34144 | Summer 2012 | 102.800 | 4.000 | 4.000 2126 | |
| AA 34144 | Fall 2012 | 102.800 | 0.000 | 4.000 2128 | |
| AA 46849 | Fall 2011 | 105.000 | 3.500 | 3.500 2118 | |
| AA 46849 | Spring 2012 | 108.000 | 4.000 | 3.567 2122 | |
| AA 46849 | Summer 2012 | 111.000 | 4.000 | 3.750 2126 | |
| AA 46849 | Fall 2012 | 111.000 | 0.000 | 3.750 2128 | |
| ABM23504 | Spring 2006 | 70.100 | 4.000 | 4.000 2062 | |
| ABM23504 | Fall 2006 | 76.100 | 4.000 | 4.000 2066 | |
| ABM23504 | Spring 2007 | 79.100 | 4.000 | 4.000 2072 | |
| ABM23504 | Fall 2007 | 82.100 | 4.000 | 4.000 2078 | |
| ABM23504 | Summer 2008 | 85.100 | 4.000 | 4.000 2086 | |
| ABM23504 | Fall 2008 | 88.100 | 4.000 | 4.000 2088 | |
| ABM23504 | Spring 2009 | 91.100 | 4.000 | 4.000 2092 | |
| ABM23504 | Summer 2009 | 91.100 | 0.000 | 4.000 2096 | |
| ABM23504 | Fall 2009 | 94.100 | 4.000 | 4.000 2098 | |
| ABM23504 | Spring 2010 | 97.100 | 4.000 | 4.000 2102 | |
| ABM23504 | Summer 2010 | 97.100 | 0.000 | 4.000 2106 | |
| ABM23504 | Fall 2010 | 100.100 | 4.000 | 4.000 2108 | |
| ABM23504 | Spring 2011 | 103.100 | 4.000 | 4.000 2112 | |
| ABM23504 | Summer 2011 | 103.100 | 0.000 | 4.000 2116 | |
| ABM23504 | Fall 2011 | 106.100 | 4.000 | 4.000 2118 | |
| ABM23504 | Spring 2012 | 109.100 | 4.000 | 4.000 2122 | |
| ABM23504 | Summer 2012 | 109.100 | 0.000 | 4.000 2126 | |
| ABM23504 | Fall 2012 | 109.100 | 0.000 | 4.000 2128 | |
| AD 09546 | Fall 1999 | 10.000 | 3.400 | 3.400 1996 | |
| AD 09546 | Spring 2000 | 23.000 | 2.538 | 2.913 2002 | |
| AD 09546 | Summer 2000 | 29.000 | 3.500 | 3.034 2006 | |
| AD 09546 | Fall 2000 | 41.000 | 1.250 | 2.512 2008 | |
| AD 09546 | Spring 2001 | 47.000 | 1.500 | 2.383 2012 | |
| AD 09546 | Spring 2002 | 58.000 | 1.750 | 2.254 2022 | |
| AD 09546 | Fall 2012 | 166.000 | 0.000 | 2.139 2128 | |
| AHD78147 | Spring 2012 | 83.640 | 4.000 | 4.000 2122 | |
| AHD78147 | Summer 2012 | 83.640 | 0.000 | 4.000 2126 | |
| AHD78147 | Fall 2012 | 83.640 | 0.000 | 4.000 2128 | |
| AJA27524 | Fall 2003 | 17.000 | 3.077 | 3.077 2038 | |
| AJA27524 | Spring 2004 | 33.000 | 2.750 | 2.897 2042 | |
| AJA27524 | Fall 2004 | 41.000 | 1.429 | 2.611 2048 | |
| AJA27524 | Spring 2005 | 51.000 | 2.384 | 2.563 2052 | |
| AJA27524 | Fall 2005 | 63.000 | 3.333 | 2.742 2058 | |
| AJA27524 | Spring 2006 | 78.000 | 1.667 | 2.500 2062 | |
| AJA27524 | Fall 2006 | 86.000 | 1.444 | 2.386 2068 | |
| AJA27524 | Spring 2007 | 86.000 | 0.000 | 2.200 2072 | |
| AJA27524 | Spring 2012 | 112.000 | 3.538 | 2.369 2122 | |
| AJA27524 | Summer 2012 | 121.000 | 3.333 | 2.446 2126 | |
| AJA27524 | Fall 2012 | 121.000 | 0.000 | 2.446 2128 | |
| AJA57659 | Summer 2011 | 66.980 | 3.000 | 3.000 2116 | |
| AJA57659 | Fall 2011 | 66.980 | 0.000 | 3.000 2118 | |
| AJA57659 | Spring 2012 | 69.980 | 4.000 | 3.500 2122 | |
| AJA57659 | Summer 2012 | 72.980 | 3.000 | 3.333 2126 | |
| AJA57659 | Fall 2012 | 72.980 | 0.000 | 3.333 2128 | |
| ASE26871 | Fall 2009 | 70.000 | 2.500 | 2.500 2098 | |
| ASE26871 | Spring 2010 | 82.000 | 2.250 | 2.667 2102 | |
| ASE26871 | Summer 2010 | 85.000 | 2.000 | 2.571 2106 | |
| ASE26871 | Fall 2010 | 97.000 | 2.000 | 2.364 2108 | |
| ASE26871 | Spring 2011 | 109.000 | 2.250 | 2.333 2112 | |
| ASE26871 | Summer 2011 | 109.000 | 0.000 | 2.333 2116 | |
| ASE26871 | Fall 2011 | 116.000 | 1.231 | 2.086 2118 | |
| ASE26871 | Spring 2012 | 122.000 | 1.000 | 1.900 2122 | |
| ASE26871 | Summer 2012 | 128.000 | 3.500 | 2.026 2126 | |
| ASE26871 | Fall 2012 | 128.000 | 0.000 | 2.026 2128 | |
| BA 96104 | Fall 2011 | 75.000 | 2.000 | 2.000 2116 | |
| BA 96104 | Spring 2012 | 87.000 | 1.200 | 1.600 2122 | |
| BA 96104 | Summer 2012 | 93.000 | 4.000 | 2.000 2126 | |

- Run the query – query returns a row for every term of enrollment for every student who meets the criteria



Identify First Term of Enrollment - 5

- To solve problem, create the same query to identify currently enrolled BGS students
- Create a subquery on STRM from the second instance of STDNT_CAR_TERM



Identify First Term of Enrollment - 6

Favorites | Main Menu > Reporting Tools > Query > Query Manager

Records Query Expressions Prompts Fields Criteria Having View SQL Run

Query Name NIU_SR_HEUGUM_SUBQUERY1_BEFORE Description First Term [Feed](#)

Click folder next to record to show fields. Check fields to add to query. Uncheck fields to remove from query. Add additional records by clicking the records tab. When finished click the fields tab.

Chosen Records

| Alias | Record | |
|-------|--|---|
| A | STDNT_CAR_TERM - Student Career Term Table | Hierarchy Join <input type="checkbox"/> |
| B | ACAD_PROG - Student Academic Program | Hierarchy Join <input type="checkbox"/> |
| C | ACAD_PLAN - Student Academic Plan Table | Hierarchy Join <input type="checkbox"/> |
| D | SCC_NAMES_QVW - Person Names Query View | Hierarchy Join <input type="checkbox"/> |
| E | STDNT_CAR_TERM - Student Career Term Table | Hierarchy Join <input type="checkbox"/> |
| F | TERM_TBL - Term Definition Table joined with E.STRM - Term | Hierarchy Join <input type="checkbox"/> |

[Expand All Records](#) [Collapse All Records](#)

[Save](#) [Save As](#) [New Query](#) [Preferences](#) [Properties](#) [Publish as Feed](#) [New Union](#) [Return To Search](#)

Same records and fields as before, but this time:

First instance of STDNT_CAR_TERM is used to identify the current term of enrollment

Favorites | Main Menu > Reporting Tools > Query > Query Manager

Records Query Expressions Prompts Fields Criteria Having View SQL Run

Query Name NIU_SR_HEUGUM_SUBQUERY1_BEFORE Description First Term [Feed](#)

View field properties, or use field as criteria in query statement. [Reorder / Sort](#)

| Col | Record.Fieldname | Format | Ord | XLAT | Agg | Heading Text | Add Criteria | Edit | Delete |
|-----|--|--------|-----|------|-----|-----------------|--------------|----------------------|--------------------------|
| 1 | substr(D.LAST_NAME,1,1) substr(D.FIRST_NAME,1,1) substr(D.MIDDLE_NAME,1,1) substr(A.EMPLID, | Char8 | 1 | | | ID | | Edit | <input type="checkbox"/> |
| 2 | F.DESCR - Description | Char30 | | | | Term | | Edit | <input type="checkbox"/> |
| 3 | E.TOT_CUMULATIVE - Total Cumulative Units | Num6.3 | | | | Total Hours | | Edit | <input type="checkbox"/> |
| 4 | E.CUR_GPA - Current GPA | Num6.3 | | | | Term GPA | | Edit | <input type="checkbox"/> |
| 5 | E.CUM_GPA - Cumulative GPA | Num6.3 | | | | Cumulative GPA | | Edit | <input type="checkbox"/> |
| 6 | E.STRM - Term | Char4 | 2 | | | Term (for sort) | | Edit | <input type="checkbox"/> |

[Save](#) [Save As](#) [New Query](#) [Preferences](#) [Properties](#) [Publish as Feed](#) [New Union](#) [Return To Search](#)

Second instance is used for subquery that identifies first term



Identify First Term of Enrollment - 7

- Select criteria of STRM equal to SUBQUERY from the second instance of STDNT_CAR_TERM

| | | | | | |
|-----|--|--------------|---|------|-----|
| AND | A.STRM - Term | equal to | 2128 | Edit | [-] |
| AND | A.UNT_TAKEN_PRGRSS+A.UNT_A UDIT | greater than | 0 | Edit | [-] |
| AND | B.PROG_STATUS - Academic Program Status | equal to | AC | Edit | [-] |
| AND | C.ACAD_PLAN - Academic Plan | equal to | GENLEMPBGS | Edit | [-] |
| AND | A.EMPLID - Empl ID | equal to | D.EMPLID - Empl ID | Edit | [-] |
| AND | D.EFFDT - Effective Date | Eff Date <= | Current Date | Edit | [-] |
| AND | D.NAME_TYPE - Type of Name | equal to | PRI | Edit | [-] |
| AND | A.EMPLID - Empl ID | equal to | E.EMPLID - Empl ID | Edit | [-] |
| AND | A.ACAD_CAREER - Academic Career | equal to | E.ACAD_CAREER - Academic Career | Edit | [-] |
| AND | A.INSTITUTION - Academic Institution | equal to | E.INSTITUTION - Academic Institution | Edit | [-] |
| AND | E.STRM - Term | equal to | SUBQUERY | Edit | [-] |

Save Save As New Query Preferences Properties Publish as Feed New Union Return To Search



Identify First Term of Enrollment - 8

Select Subquery from the Choose Expression 2 Type menu and click [Define/Edit Subquery](#)

Search for STDNT_CAR_TERM and click [Add Record](#)

Edit Criteria Properties

Choose Expression 1 Type

Field
 Expression

Expression 1

Choose Record and Field

Record Alias.Fieldname:
E.STRM - Term

*Condition Type: equal to

Choose Expression 2 Type

Field
 Expression
 Constant
 Prompt
 Subquery

OK Cancel

Expression 2

Define Subquery

[Define/Edit Subquery](#)

Query Name: NIU_SR_HEUGUM_SUBQUERY1_AFTER Description: First Term

Working on selection: Subquery for E.STRM - Term

Add additional records by clicking the records tab. When finished select a single field for this subquery and you will be transferred to the fields tab.

Chosen Records

Alias Record

G STDNT_CAR_TERM - Student Career Term Table

| Fields | Find View 100 | First 1-50 of 124 | Last |
|---|-----------------|--|------|
| Select EMPLID - Empl ID | | Join PEOPLE_SRCH - People Search View | |
| Select ACAD_CAREER - Academic Career | | Join STDNT_CAREER - Student Career | |
| Select INSTITUTION - Academic Institution | | Join INSTITUTION_TBL - Institution Table | |
| Select STRM - Term | | Join TERM_TBL - Term Definition Table | |
| Select REG_CARD_DATE - Registration Card Date | | | |
| Select WITHDRAW_CODE - Withdrawal \ Cancel | | | |
| Select WITHDRAW_REASON - Withdrawal \ Cancel Reason | | | |
| Select WITHDRAW_DATE - Withdrawal \ Cancel Date | | | |
| Select LAST_DATE_ATTENDED - Last Date of Attendance | | | |
| Select STDNT_CAR_NBR - Student Career Nbr | | | |
| Select ACAD_PROG_PRIMARY - Primary Academic Program | | | |
| Select ACAD_LOAD_APPR - Approved Academic Load | | | |
| Select ACADEMIC_LOAD - Academic Load | | | |
| Select FA_LOAD - Financial Aid Load | | | |
| Select ACAD_LEVEL_PROJ - Academic Level - Projected | | Join ACAD_LEVEL_TBL - Academic Level Table | |
| Select ACAD_LEVEL_BOT - Academic Level - Term Start | | Join ACAD_LEVEL_TBL - Academic Level Table | |
| Select ACAD_LEVEL_TOP - Academic Level - Term End | | Join ACAD_LEVEL_TBL - Academic Level Table | |



Identify First Term of Enrollment - 9

Click [Select](#) next to STRM

Edit Field Properties for STRM and select the 'Min' Aggregate

Records Query Expressions Prompts **Fields** Criteria Having View SQL Run

Query Name NIU_SR_HEUGUM_SUBQUERY1_AFTER Description First Term [Feed](#)

Working on selection Subquery for E.STRM - Term [Subquery/Union Navigation](#)

View field properties, or use field as criteria in query statement. [Reorder / Sort](#)

| Col | Record.FieldName | Format | Ord | XLAT | Agg | Heading Text | Add Criteria | Edit | Delete |
|-----|------------------|--------|-----|------|-----|--------------|--------------|----------------------|------------------------|
| 1 | G.STRM - Term | Char4 | | | | Term | | Edit | Delete |

[Save](#) [Save As](#) [New Query](#) [Preferences](#) [Properties](#) [Publish as Feed](#) [New Union](#) [Return To Search](#)

Edit Field Properties

Field Name: G.STRM - Term

Heading

No Heading RFT Short

Text RFT Long

Heading Text:
Min Term

*Unique Field Name:
G.STRM

Aggregate

None

Sum

Count

Min

Max

Average

[OK](#) [Cancel](#)

Records Query Expressions Prompts **Fields** Criteria Having View SQL Run

Query Name NIU_SR_HEUGUM_SUBQUERY1_AFTER Description First Term [Feed](#)

Working on selection Subquery for E.STRM - Term [Subquery/Union Navigation](#)

View field properties, or use field as criteria in query statement. [Reorder / Sort](#)

| Col | Record.FieldName | Format | Ord | XLAT | Agg | Heading Text | Add Criteria | Edit | Delete |
|-----|------------------|--------|-----|------|-----|--------------|--------------|----------------------|------------------------|
| 1 | G.STRM - Term | Char4 | | | Min | Min Term | | Edit | Delete |

[Save](#) [Save As](#) [New Query](#) [Preferences](#) [Properties](#) [Publish as Feed](#) [New Union](#) [Return To Search](#)



Identify First Term of Enrollment - 10

Select criteria joining the subquery instance of STDNT_CAR_TERM to the second top-level instance of STDNT_CAR_TERM

Records Query Expressions Prompts Fields Criteria Having View SQL Run

Query Name NIU_SR_HEUGUM_SUBQUERY1_AFTER Description First Term Feed

Working on selection Subquery for E.STRM - Term Subquery/Union Navigation

Add Criteria Group Criteria Reorder Criteria

| Criteria | Expression1 | Condition Type | Expression 2 | Edit | Delete |
|----------|--------------------------------------|----------------|--------------------------------------|------|--------|
| | G.EMPLID - Empl ID | equal to | E.EMPLID - Empl ID | Edit | [-] |
| AND | G.ACAD_CAREER - Academic Career | equal to | E.ACAD_CAREER - Academic Career | Edit | [-] |
| AND | G.STDNT_CAR_NBR - Student Career Nbr | equal to | E.STDNT_CAR_NBR - Student Career Nbr | Edit | [-] |

Save Save As New Query Preferences Properties Publish as Feed New Union Return To Search

Be sure to also add criteria that selects students who were enrolled – at NIU we use *hours > '0'*

Records Query Expressions Prompts Fields Criteria Having View SQL Run

Query Name NIU_SR_HEUGUM_SUBQUERY1_AFTER Description First Term Feed

Working on selection Subquery for E.STRM - Term Subquery/Union Navigation

Add Criteria Group Criteria Reorder Criteria

| Criteria | Expression1 | Condition Type | Expression 2 | Edit | Delete |
|----------|---|----------------|--------------------------------------|------|--------|
| | G.EMPLID - Empl ID | equal to | E.EMPLID - Empl ID | Edit | [-] |
| AND | G.ACAD_CAREER - Academic Career | equal to | E.ACAD_CAREER - Academic Career | Edit | [-] |
| AND | G.STDNT_CAR_NBR - Student Career Nbr | equal to | E.STDNT_CAR_NBR - Student Career Nbr | Edit | [-] |
| AND | G.UNT_TAKEN_PRGRSS - Units Taken for Progress | greater than | 0 | Edit | [-] |

Save Save As New Query Preferences Properties Publish as Feed New Union Return To Search



Identify First Term of Enrollment - 11

| | ID | Term | Total Hours | Term GPA | Cumulative GPA | Term (for sort) |
|----|----------|-------------|-------------|----------|----------------|-----------------|
| 1 | AA 34144 | Spring 2012 | 96.800 | 4.000 | 4.000 | 2122 |
| 2 | AA 34144 | Summer 2012 | 102.800 | 4.000 | 4.000 | 2126 |
| 3 | AA 34144 | Fall 2012 | 102.800 | 0.000 | 4.000 | 2128 |
| 4 | AA 46849 | Fall 2011 | 105.000 | 3.500 | 3.500 | 2118 |
| 5 | AA 46849 | Spring 2012 | 108.000 | 4.000 | 3.687 | 2122 |
| 6 | AA 46849 | Summer 2012 | 111.000 | 4.000 | 3.750 | 2126 |
| 7 | AA 46849 | Fall 2012 | 111.000 | 0.000 | 3.750 | 2128 |
| 8 | ABM23504 | Spring 2006 | 79.100 | 4.000 | 4.000 | 2062 |
| 9 | ABM23504 | Fall 2006 | 76.100 | 4.000 | 4.000 | 2068 |
| 10 | ABM23504 | Spring 2007 | 79.100 | 4.000 | 4.000 | 2072 |
| 11 | ABM23504 | Fall 2007 | 82.100 | 4.000 | 4.000 | 2078 |
| 12 | ABM23504 | Summer 2008 | 85.100 | 4.000 | 4.000 | 2086 |
| 13 | ABM23504 | Fall 2008 | 88.100 | 4.000 | 4.000 | 2088 |
| 14 | ABM23504 | Spring 2009 | 91.100 | 4.000 | 4.000 | 2092 |
| 15 | ABM23504 | Summer 2009 | 91.100 | 0.000 | 4.000 | 2096 |
| 16 | ABM23504 | Fall 2009 | 94.100 | 4.000 | 4.000 | 2098 |
| 17 | ABM23504 | Spring 2010 | 97.100 | 4.000 | 4.000 | 2102 |
| 18 | ABM23504 | Summer 2010 | 97.100 | 0.000 | 4.000 | 2106 |
| 19 | ABM23504 | Fall 2010 | 100.100 | 4.000 | 4.000 | 2108 |
| 20 | ABM23504 | Spring 2011 | 103.100 | 4.000 | 4.000 | 2112 |
| 21 | ABM23504 | Summer 2011 | 103.100 | 0.000 | 4.000 | 2116 |
| 22 | ABM23504 | Fall 2011 | 106.100 | 4.000 | 4.000 | 2118 |
| 23 | ABM23504 | Spring 2012 | 109.100 | 4.000 | 4.000 | 2122 |
| 24 | ABM23504 | Summer 2012 | 109.100 | 0.000 | 4.000 | 2126 |
| 25 | ABM23504 | Fall 2012 | 109.100 | 0.000 | 4.000 | 2128 |
| 26 | AD 09546 | Fall 1999 | 10.000 | 3.400 | 3.400 | 1998 |
| 27 | AD 09546 | Spring 2000 | 23.000 | 2.538 | 2.913 | 2002 |
| 28 | AD 09546 | Summer 2000 | 29.000 | 3.500 | 3.034 | 2006 |
| 29 | AD 09546 | Fall 2000 | 41.000 | 1.250 | 2.512 | 2008 |
| 30 | AD 09546 | Spring 2001 | 47.000 | 1.500 | 2.383 | 2012 |
| 31 | AD 09546 | Spring 2002 | 59.000 | 1.750 | 2.254 | 2022 |
| 48 | AD 09546 | Fall 2012 | 166.000 | 0.000 | 2.139 | 2128 |
| 49 | AHD78147 | Spring 2012 | 83.640 | 4.000 | 4.000 | 2122 |
| 50 | AHD78147 | Summer 2012 | 83.640 | 0.000 | 4.000 | 2126 |
| 51 | AHD78147 | Fall 2012 | 83.640 | 0.000 | 4.000 | 2128 |
| 52 | AJA27524 | Fall 2003 | 17.000 | 3.077 | 3.077 | 2038 |
| 53 | AJA27524 | Spring 2004 | 33.000 | 2.750 | 2.897 | 2042 |
| 54 | AJA27524 | Fall 2004 | 41.000 | 1.429 | 2.611 | 2048 |
| 55 | AJA27524 | Spring 2005 | 51.000 | 2.364 | 2.553 | 2052 |
| 56 | AJA27524 | Fall 2005 | 63.000 | 3.333 | 2.742 | 2058 |
| 57 | AJA27524 | Spring 2006 | 78.000 | 1.667 | 2.500 | 2062 |
| 58 | AJA27524 | Fall 2006 | 86.000 | 1.444 | 2.398 | 2068 |
| 59 | AJA27524 | Spring 2007 | 86.000 | 0.000 | 2.200 | 2072 |
| 60 | AJA27524 | Spring 2012 | 112.000 | 3.538 | 2.369 | 2122 |
| 61 | AJA27524 | Summer 2012 | 121.000 | 3.333 | 2.446 | 2126 |
| 62 | AJA27524 | Fall 2012 | 121.000 | 0.000 | 2.446 | 2128 |
| 63 | AJA57659 | Summer 2011 | 66.980 | 3.000 | 3.000 | 2116 |
| 64 | AJA57659 | Fall 2011 | 66.980 | 0.000 | 3.000 | 2118 |
| 65 | AJA57659 | Spring 2012 | 69.980 | 4.000 | 3.500 | 2122 |
| 66 | AJA57659 | Summer 2012 | 72.980 | 3.000 | 3.333 | 2126 |
| 67 | AJA57659 | Fall 2012 | 72.980 | 0.000 | 3.333 | 2128 |
| 68 | ASE26871 | Fall 2009 | 70.000 | 3.500 | 3.500 | 2098 |
| 69 | ASE26871 | Spring 2010 | 82.000 | 2.250 | 2.667 | 2102 |
| 70 | ASE26871 | Summer 2010 | 85.000 | 2.000 | 2.571 | 2106 |
| 71 | ASE26871 | Fall 2010 | 97.000 | 2.000 | 2.364 | 2108 |
| 72 | ASE26871 | Spring 2011 | 109.000 | 2.250 | 2.333 | 2112 |
| 73 | ASE26871 | Summer 2011 | 109.000 | 0.000 | 2.333 | 2116 |
| 74 | ASE26871 | Fall 2011 | 116.000 | 1.231 | 2.088 | 2118 |
| 75 | ASE26871 | Spring 2012 | 122.000 | 1.000 | 1.900 | 2122 |
| 76 | ASE26871 | Summer 2012 | 128.000 | 3.500 | 2.026 | 2126 |
| 77 | ASE26871 | Fall 2012 | 128.000 | 0.000 | 2.026 | 2128 |
| 78 | BA 96104 | Fall 2011 | 75.000 | 2.000 | 2.000 | 2118 |
| 79 | BA 96104 | Spring 2012 | 87.000 | 1.200 | 1.600 | 2122 |
| 80 | BA 96104 | Summer 2012 | 93.000 | 4.000 | 2.000 | 2126 |

- Return to the Top Level of the query by clicking the [Subquery/Union Navigation](#) link and run the query
 - Compare results

| | ID | Term | Total Hours | Term GPA | Cumulative GPA |
|---|----------|-------------|-------------|----------|----------------|
| 1 | AA 34144 | Spring 2012 | 96.800 | 4.000 | 4.000 |
| 2 | AA 46849 | Fall 2011 | 105.000 | 3.500 | 3.500 |
| 3 | ABM23504 | Spring 2006 | 70.100 | 4.000 | 4.000 |
| 4 | AD 09546 | Fall 1999 | 10.000 | 3.400 | 3.400 |
| 5 | AHD78147 | Spring 2012 | 83.640 | 4.000 | 4.000 |
| 6 | AJA27524 | Fall 2003 | 17.000 | 3.077 | 3.077 |
| 7 | AJA57659 | Summer 2011 | 66.980 | 3.000 | 3.000 |
| 8 | ASE26871 | Fall 2009 | 70.000 | 3.500 | 3.500 |
| 9 | BA 96104 | Fall 2011 | 75.000 | 2.000 | 2.000 |

After

Before



Identify Most Recent Acad Standing - 1

- **Scenario**

- Academic Advising Center wants to know the current Academic Standing (good standing, on probation, etc.) for currently enrolled sophomores and juniors



Identify Most Recent Acad Standing - 2

- Create a query to identify currently enrolled sophomores and juniors
 - Records, tables and views

Favorites | Main Menu > Reporting Tools > Query > Query Manager

Records Query Expressions Prompts Fields Criteria Having View SQL Run

Query Name NIU_SR_HEUGUM_SUBQUERY2_BEFORE Description Acad Standing Feed

Click folder next to record to show fields. Check fields to add to query. Uncheck fields to remove from query. Add additional records by clicking the records tab. When finished click the fields tab.

Chosen Records

| Alias | Record | |
|-------|---|------------------------------------|
| A | STDNT_CAR_TERM - Student Career Term Table | Hierarchy Join [-] |
| B | ACAD_STDNG_ACTN - Academic Standing Action | Hierarchy Join [-] |
| E | ACAD_STACTN_TBL - Academic Standing Action Tbl joined with B.ACAD_STDNG_ACTN - Academic Standing Ac | Hierarchy Join [-] |
| F | TERM_TBL - Term Definition Table joined with B.STRM - Term | Hierarchy Join [-] |
| C | SCC_NAMES_QVW - Person Names Query View | Hierarchy Join [-] |

Expand All Records Collapse All Records

Save Save As New Query Preferences Properties Publish as Feed New Union Return To Search



Identify Most Recent Acad Standing - 3

- **Add Fields**

- Expressions used to look at past three academic terms enrolled

Records Query Expressions Prompts **Fields** Criteria Having View SQL Run

Query Name NIU_SR_HEUGUM_SUBQUERY2_BEFORE Description Acad Standing [Feed](#)

View field properties, or use field as criteria in query statement. [Reorder / Sort](#)

| Col | Record.FieldName | Format | Ord | XLAT | Agg | Heading Text | Add Criteria | Edit | Delete |
|-----|--|--------|-----|------|-----|----------------------|--------------|------|--------|
| 1 | substr(C.LAST_NAME,1,1) substr(C.FIRST_NAME,1,1) substr(C.MIDDLE_NAME,1,1) substr(A.EMPLID, | Char8 | 1 | | | ID | | Edit | |
| 2 | case when B.STRM = '2118' then E.DESCR end | Char45 | | | Max | Fall Acad Standing | | Edit | |
| 3 | case when B.STRM = '2122' then E.DESCR end | Char45 | | | Max | Spring Acad Standing | | Edit | |
| 4 | case when B.STRM = '2126' then E.DESCR end | Char45 | | | Max | Summer Acad Standing | | Edit | |

[Save](#) [Save As](#) [New Query](#) [Preferences](#) [Properties](#) [Publish as Feed](#) [New Union](#) [Return To Search](#)



Identify Most Recent Acad Standing - 4

[All](#) | [Rerun Query](#) | [Download to Excel](#) | [Download to XML](#)

First 1-100 of 5341 Last

| ID | Fall Acad Standing | Spring Acad Standing | Summer Acad Standing |
|----------|------------------------------|-------------------------------|--------------------------|
| KM58024 | 1st NIU term, =>30 hrs, >2.0 | Eligible to Enroll > 2.0 | Eligible to Enroll > 2.0 |
| AA 12789 | Eligible to Enroll > 2.0 | Eligible to Enroll > 2.0 | Eligible to Enroll > 2.0 |
| AA 15492 | Eligible to Enroll > 2.0 | Eligible to Enroll > 2.0 | |
| AAR67875 | Eligible to Enroll > 2.0 | Eligible to Enroll > 2.0 | Eligible to Enroll > 2.0 |
| AAT72029 | Eligible to Enroll > 2.0 | Eligible to Enroll > 2.0 | |
| AB 09641 | Eligible to Enroll > 2.0 | Eligible to Enroll > 2.0 | |
| AB 48478 | 1st Term Freshman GPA => 2.0 | Eligible to Enroll > 2.0 | |
| ABI86641 | Eligible to Enroll > 2.0 | Eligible to Enroll > 2.0 | |
| ABK11526 | 1st NIU term, =>30 hrs, >2.0 | Eligible to Enroll > 2.0 | |
| ABL93907 | | 1st NIU term, =>30 hrs, >2.0 | |
| ABN58272 | 1st NIU term, =>30 hrs, >2.0 | Eligible to Enroll > 2.0 | Eligible to Enroll > 2.0 |
| ABR51623 | | Eligible Once Final Pro | Eligible Once Final Pro |
| ABS03426 | Eligible to Enroll > 2.0 | Eligible to Enroll > 2.0 | |
| ABS55505 | 1st NIU term, =>30 hrs, >2.0 | Eligible to Enroll > 2.0 | |
| AC 58123 | Academic Dismissal: Retained | Academic Dismissal: Retained | |
| ACA03650 | Eligible to Enroll > 2.0 | Eligible to Enroll > 2.0 | |
| ACB33239 | | Term Withdrawal: with W's | |
| ACC68116 | Eligible to Enroll > 2.0 | Eligible to Enroll > 2.0 | |
| ACD60678 | 1st NIU term, =>30 hrs, >2.0 | Eligible to Enroll > 2.0 | |
| ACI58664 | 1st NIU term, =>30 hrs, >2.0 | Eligible to Enroll > 2.0 | |
| ACJ21268 | Academic Dismissal: Retained | | |
| ACJ63442 | | 1st NIU term, =>30 hrs, >2.0 | |
| ACL51663 | 1st NIU term, =>30 hrs, >2.0 | Eligible to Enroll > 2.0 | |
| ACM39370 | Eligible to Enroll > 2.0 | Eligible to Enroll > 2.0 | |
| ACP76714 | | 1st Term NIU =>30 Hrs, GPA <2 | |
| ACT12948 | Eligible to Enroll > 2.0 | Eligible to Enroll > 2.0 | |
| AD 34543 | Eligible to Enroll > 2.0 | Eligible to Enroll > 2.0 | |
| AD 35980 | 1st Term Freshman GPA => 2.0 | Eligible to Enroll > 2.0 | |
| AD 48657 | 1st Term Freshman GPA => 2.0 | Eligible to Enroll > 2.0 | |
| ADA85897 | Eligible to Enroll > 2.0 | Eligible to Enroll > 2.0 | |
| ADJ01099 | Eligible to Enroll > 2.0 | Eligible to Enroll > 2.0 | |
| ADK37553 | 1st Term Freshman GPA => 2.0 | Eligible to Enroll > 2.0 | Eligible to Enroll > 2.0 |
| ADK50997 | Eligible to Enroll > 2.0 | Prev Eligible Enroll Now <2.0 | |
| ADM32350 | 1st NIU term, =>30 hrs, >2.0 | Eligible to Enroll > 2.0 | Eligible to Enroll > 2.0 |
| ADM41341 | 1st Term Freshman GPA => 2.0 | Eligible to Enroll > 2.0 | |

Results:

Students whose last acad standing term was Summer 2012

Students whose last acad standing term was Spring 2012

Students whose last acad standing term was Fall 2011



Identify Most Recent Acad Standing - 5

- To solve problem, create the same query to identify currently enrolled sophomores and juniors
- Create a subquery on STRM from ACAD_STDNG_ACTN



Identify Most Recent Acad Standing - 6

Records Query Expressions Prompts Fields Criteria Having View SQL Run

Query Name NIU_SR_HEUGUM_SUBQUERY2_AFTER Description Acad Standing Feed

Working on selection Top Level of Query Subquery/Union Navigation

Click folder next to record to show fields. Check fields to add to query. Uncheck fields to remove from query. Add additional records by clicking the records tab. When finished click the fields tab.

Chosen Records

| Alias | Record | |
|-------|--|------------------------------------|
| A | STDNT_CAR_TERM - Student Career Term Table | Hierarchy Join [-] |
| B | ACAD_STDNG_ACTN - Academic Standing Action | Hierarchy Join [-] |
| E | ACAD_STACTN_TBL - Academic Standing Action Tbl joined with B.ACAD_STNDNG_ACTN - Academic Standing Ac | Hierarchy Join [-] |
| F | TERM_TBL - Term Definition Table joined with B.STRM - Term | Hierarchy Join [-] |
| D | SCC_NAMES_QVW - Person Names Query View | Hierarchy Join [-] |

Expand All Records Collapse All Records

Save Save As New Query Preferences Properties Publish as Feed New Union Return To Search

Same records as before, but this time:

Expressions are not needed

Favorites Main Menu Reporting Tools Query Query Manager

Records Query Expressions Prompts Fields Criteria Having View SQL Run

Query Name NIU_SR_HEUGUM_SUBQUERY2_AFTER Description Acad Standing Feed

Working on selection Top Level of Query Subquery/Union Navigation

View field properties, or use field as criteria in query statement. Reorder / Sort

| Col | Record.Fieldname | Format | Ord | XLAT | Agg | Heading Text | Add Criteria | Edit | Delete |
|-----|--|--------|-----|------|-----|--------------------|--------------|------|--------|
| 1 | substr(D.LAST_NAME,1,1) substr(D.FIRST_NAME,1,1) substr(D.MIDDLE_NAME,1,1) substr(A.EMPLID, | Char8 | 1 | | | ID | | Edit | [-] |
| 2 | E.DESCR - Description | Char30 | | | | Academic Standing | | Edit | [-] |
| 3 | F.DESCR - Description | Char30 | | | | Acad Standing Term | | Edit | [-] |

Save Save As New Query Preferences Properties Publish as Feed New Union Return To Search



Identify Most Recent Acad Standing - 7

- Select criteria of STRM equal to SUBQUERY from ACAD_STDNG_ACTN

Favorites | Main Menu > Reporting Tools > Query > Query Manager

Records Query Expressions Prompts Fields Criteria Having View SQL Run

Query Name NIU_SR_HEUGUM_SUBQUERY2_AFTER Description Acad Standing Feed

Working on selection Top Level of Query Subquery/Union Navigation

Add Criteria Group Criteria Reorder Criteria

| Criteria | Expression1 | Condition Type | Expression 2 | Edit | Delete |
|----------|---|----------------|--------------------------------------|------|--------|
| | A.EMPLID - Empl ID | equal to | B.EMPLID - Empl ID | Edit | |
| AND | A.ACAD_CAREER - Academic Career | equal to | B.ACAD_CAREER - Academic Career | Edit | |
| AND | A.INSTITUTION - Academic Institution | equal to | B.INSTITUTION - Academic Institution | Edit | |
| AND | B.EFFDT - Effective Date | Eff Date <= | Current Date (EffSeq = Last) | Edit | |
| AND | B.STRM - Term | equal to | SUBQUERY | Edit | |
| AND | A.STRM - Term | equal to | 2128 | Edit | |
| AND | A.UNT_INPROG_GPA+A.UNT_INPROG_NOGPA+A.UNT_AUDIT | greater than | 0 | Edit | |
| AND | A.ACAD_CAREER - Academic Career | equal to | UGRD | Edit | |
| AND | A.ACAD_LEVEL_BOT - Academic Level - Term Start | in list | ('20','30') | Edit | |
| AND | E.EFFDT - Effective Date | Eff Date <= | Current Date | Edit | |
| AND | A.EMPLID - Empl ID | equal to | D.EMPLID - Empl ID | Edit | |
| AND | D.EFFDT - Effective Date | Eff Date <= | Current Date | Edit | |
| AND | D.NAME_TYPE - Type of Name | equal to | PRI | Edit | |

Save Save As New Query Preferences Properties Publish as Feed New Union Return To Search



Identify Most Recent Acad Standing - 8

Select Subquery from the Choose Expression 2 Type menu and click [Define/Edit Subquery](#)

Favorites | Main Menu > Reporting Tools > Query > Query Manager

Edit Criteria Properties

Choose Expression 1 Type

Field
 Expression

Expression 1

Choose Record and Field

Record Alias.Fieldname:

B.STRM - Term

*Condition Type: equal to

Choose Expression 2 Type

Field
 Expression
 Constant
 Prompt
 Subquery

OK Cancel

Search for ACAD_STDNG_ACTN and click [Add Record](#)

Records Query Expressions Prompts Fields Criteria Having View SQL Run

Query Name NIU_SR_HEUGUM_SUBQUERY2_AFTER Description Acad Standing

Working on selection Subquery for B.STRM - Term [Subquery/Union Navigation](#)

Add additional records by clicking the records tab. When finished select a single field for this subquery and you will be transferred to the fields tab.

Chosen Records

Alias Record

C ACAD_STDNG_ACTN - Academic Standing Action [Hierarchy Join](#)

Fields Find | View All First 1-12 of 12 Last

| | | |
|--------|--|---|
| Select | EMPLID - Empl ID | |
| Select | ACAD_CAREER - Academic Career | Join ACAD_CAR_TBL - Academic Career Table |
| Select | INSTITUTION - Academic Institution | Join INSTITUTION_TBL - Institution Table |
| Select | STRM - Term | Join TERM_TBL - Term Definition Table |
| Select | EFFDT - Effective Date | |
| Select | EFFSEQ - Effective Sequence | |
| Select | ACAD_STDNG_ACTN - Academic Standing Action | Join ACAD_STACTN_TBL - Academic Standing Action Table |
| Select | OVERRIDE_MANUAL - Entered Online | |
| Select | ACAD_PROG - Academic Program | |
| Select | ACAD_STDNG_STAT - Academic Standing Status | |
| Select | ACTION_DT - Action Date | |
| Select | OPRID - User ID | |

Save Save As New Query Preferences Properties Publish as Feed New Union Return To Search



Identify Most Recent Acad Standing - 9

Click [Select](#) next to STRM

Edit Field Properties for STRM and select the 'Max' Aggregate

Records Query Expressions Prompts **Fields** Criteria Having View SQL Run

Query Name NIU_SR_HEUGUM_SUBQUERY2_AFTER Description Acad Standing Feed -

Working on selection Subquery for B.STRM - Term Subquery/Union Navigation

View field properties, or use field as criteria in query statement. Reorder / Sort

| Col | Record.FieldName | Format | Ord | XLAT | Agg | Heading Text | Add Criteria | Edit | Delete |
|-----|------------------|--------|-----|------|------|--------------|--------------|------|--------|
| 1 | C.STRM - Term | Char4 | | | Term | | | Edit | |

Save Save As New Query Preferences Properties Publish as Feed New Union Return To Search

Edit Field Properties

Field Name: C.STRM - Term

| Heading | Aggregate |
|---|--------------------------------------|
| <input type="radio"/> No Heading <input checked="" type="radio"/> RFT Short | <input type="radio"/> None |
| <input type="radio"/> Text <input type="radio"/> RFT Long | <input type="radio"/> Sum |
| Heading Text: Term | <input type="radio"/> Count |
| *Unique Field Name: C.STRM | <input checked="" type="radio"/> Max |
| | <input type="radio"/> Average |

OK Cancel

Records Query Expressions Prompts **Fields** Criteria Having View SQL Run

Query Name NIU_SR_HEUGUM_SUBQUERY2_AFTER Description Acad Standing Feed -

Working on selection Subquery for B.STRM - Term Subquery/Union Navigation

View field properties, or use field as criteria in query statement. Reorder / Sort

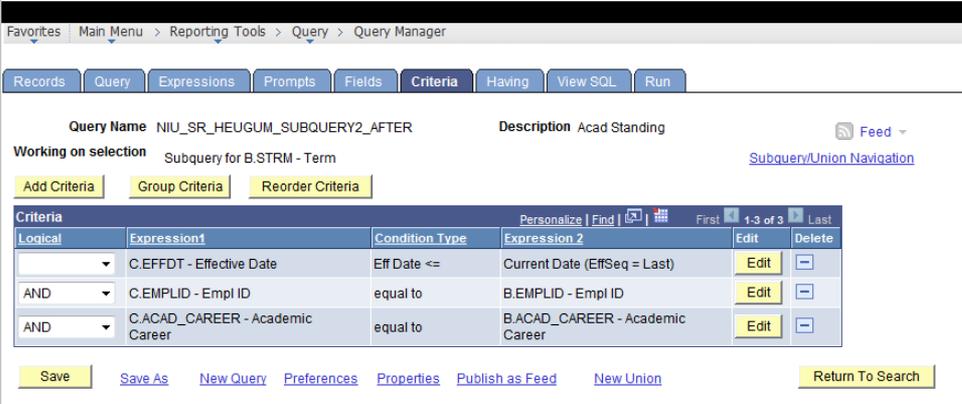
| Col | Record.FieldName | Format | Ord | XLAT | Agg | Heading Text | Add Criteria | Edit | Delete |
|-----|------------------|--------|-----|------|-----|--------------|--------------|------|--------|
| 1 | C.STRM - Term | Char4 | | | Max | Max Term | | Edit | |

Save Save As New Query Preferences Properties Publish as Feed New Union Return To Search



Identify Most Recent Acad Standing - 10

Select criteria joining the subquery instance of ACAD_STDNG_ACTN to the top-level instance of ACAD_STDNT_ACTN



Query Name NIU_SR_HEUGUM_SUBQUERY2_AFTER Description Acad Standing

Working on selection Subquery for B.STRM - Term

[Add Criteria](#) [Group Criteria](#) [Reorder Criteria](#)

| Logical | Expression1 | Condition Type | Expression 2 | Edit | Delete |
|---------|---------------------------------|----------------|---------------------------------|----------------------|-------------------|
| | C.EFFDT - Effective Date | Eff Date <= | Current Date (EffSeq = Last) | Edit | - |
| AND | C.EMPLID - Empl ID | equal to | B.EMPLID - Empl ID | Edit | - |
| AND | C.ACAD_CAREER - Academic Career | equal to | B.ACAD_CAREER - Academic Career | Edit | - |

[Save](#) [Save As](#) [New Query](#) [Preferences](#) [Properties](#) [Publish as Feed](#) [New Union](#) [Return To Search](#)



Identify Most Recent Acad Standing - 11

- Return to the Top Level of the query by clicking the [Subquery/Union Navigation](#) link and run the query
 - Compare results

[All | Rerun Query](#) | [Download to Excel](#) | [Download to XML](#)
First 1-100 of 5341 Last

| ID | Fall Acad Standing | Spring Acad Standing | Summer Acad Standing |
|----------|------------------------------|-------------------------------|--------------------------|
| KM58024 | 1st NIU term, =>30 hrs, >2.0 | Eligible to Enroll > 2.0 | Eligible to Enroll > 2.0 |
| AA 12789 | Eligible to Enroll > 2.0 | Eligible to Enroll > 2.0 | Eligible to Enroll > 2.0 |
| AA 15492 | Eligible to Enroll > 2.0 | Eligible to Enroll > 2.0 | |
| AA 16295 | Eligible to Enroll > 2.0 | Eligible to Enroll > 2.0 | |
| AA 24854 | 1st NIU term, =>30 hrs, >2.0 | Eligible to Enroll > 2.0 | |
| AAR67875 | Eligible to Enroll > 2.0 | Eligible to Enroll > 2.0 | Eligible to Enroll > 2.0 |
| AAT72029 | Eligible to Enroll > 2.0 | Eligible to Enroll > 2.0 | |
| AB 09641 | Eligible to Enroll > 2.0 | Eligible to Enroll > 2.0 | |
| AB 48478 | 1st Term Freshman GPA => 2.0 | Eligible to Enroll > 2.0 | |
| ABI86641 | Eligible to Enroll > 2.0 | Eligible to Enroll > 2.0 | |
| ABK11526 | 1st NIU term, =>30 hrs, >2.0 | Eligible to Enroll > 2.0 | |
| ABL93907 | | 1st NIU term, =>30 hrs, >2.0 | |
| ABN58272 | 1st NIU term, =>30 hrs, >2.0 | Eligible to Enroll > 2.0 | Eligible to Enroll > 2.0 |
| ABR51623 | | Eligible Once Final Pro | Eligible Once Final Pro |
| ABS03426 | Eligible to Enroll > 2.0 | Eligible to Enroll > 2.0 | |
| ABS55505 | 1st NIU term, =>30 hrs, >2.0 | Eligible to Enroll > 2.0 | |
| AC 58123 | Academic Dismissal: Retained | Academic Dismissal: Retained | |
| ACA03650 | Eligible to Enroll > 2.0 | Eligible to Enroll > 2.0 | |
| ACB33239 | | Term Withdrawal: with Ws | |
| ACC68116 | Eligible to Enroll > 2.0 | Eligible to Enroll > 2.0 | |
| ACD60678 | 1st NIU term, =>30 hrs, >2.0 | Eligible to Enroll > 2.0 | |
| ACI58664 | 1st NIU term, =>30 hrs, >2.0 | Eligible to Enroll > 2.0 | |
| ACJ21268 | Academic Dismissal: Retained | | |
| ACJ63442 | | 1st NIU term, =>30 hrs, >2.0 | |
| ACL51663 | 1st NIU term, =>30 hrs, >2.0 | Eligible to Enroll > 2.0 | |
| ACM39370 | Eligible to Enroll > 2.0 | Eligible to Enroll > 2.0 | |
| ACP76714 | | 1st Term NIU =>30 Hrs, GPA <2 | |
| ACT12948 | Eligible to Enroll > 2.0 | Eligible to Enroll > 2.0 | |
| AD 34543 | Eligible to Enroll > 2.0 | Eligible to Enroll > 2.0 | |
| AD 35980 | 1st Term Freshman GPA => 2.0 | Eligible to Enroll > 2.0 | |
| AD 48657 | 1st Term Freshman GPA => 2.0 | Eligible to Enroll > 2.0 | |
| ADA85897 | Eligible to Enroll > 2.0 | Eligible to Enroll > 2.0 | |

[Rerun Query](#) | [Download to Excel](#) | [Download to XML](#)
First 1-100 of 5340 Last

| ID | Academic Standing | Acad Standing Term |
|----------|-------------------------------|--------------------|
| KM58024 | Eligible to Enroll > 2.0 | Summer 2012 |
| AA 12789 | Eligible to Enroll > 2.0 | Summer 2012 |
| AA 15492 | Eligible to Enroll > 2.0 | Spring 2012 |
| AA 16295 | Eligible to Enroll > 2.0 | Spring 2012 |
| AAR67875 | Eligible to Enroll > 2.0 | Summer 2012 |
| AAT72029 | Eligible to Enroll > 2.0 | Spring 2012 |
| AB 09641 | Eligible to Enroll > 2.0 | Spring 2012 |
| AB 48478 | Eligible to Enroll > 2.0 | Spring 2012 |
| ABI86641 | Eligible to Enroll > 2.0 | Spring 2012 |
| ABK11526 | Eligible to Enroll > 2.0 | Spring 2012 |
| ABL93907 | 1st NIU term, =>30 hrs, >2.0 | Spring 2012 |
| ABN58272 | Eligible to Enroll > 2.0 | Summer 2012 |
| ABR51623 | Eligible Once Final Pro | Summer 2012 |
| ABS03426 | Eligible to Enroll > 2.0 | Spring 2012 |
| ABS55505 | Eligible to Enroll > 2.0 | Spring 2012 |
| AC 58123 | Academic Dismissal: Retained | Spring 2012 |
| ACA03650 | Eligible to Enroll > 2.0 | Spring 2012 |
| ACB33239 | Term Withdrawal: with Ws | Spring 2012 |
| ACC68116 | Eligible to Enroll > 2.0 | Spring 2012 |
| ACD60678 | Eligible to Enroll > 2.0 | Spring 2012 |
| ACI58664 | Eligible to Enroll > 2.0 | Spring 2012 |
| ACJ21268 | Academic Dismissal: Retained | Fall 2011 |
| ACJ63442 | 1st NIU term, =>30 hrs, >2.0 | Spring 2012 |
| ACL51663 | Eligible to Enroll > 2.0 | Spring 2012 |
| ACM39370 | Eligible to Enroll > 2.0 | Spring 2012 |
| ACP76714 | 1st Term NIU =>30 Hrs, GPA <2 | Spring 2012 |
| ACT12948 | Eligible to Enroll > 2.0 | Spring 2012 |
| AD 34543 | Eligible to Enroll > 2.0 | Spring 2012 |
| AD 35980 | Eligible to Enroll > 2.0 | Spring 2012 |
| AD 48657 | Eligible to Enroll > 2.0 | Spring 2012 |
| ADA85897 | Eligible to Enroll > 2.0 | Spring 2012 |



Show Two Ethnicities on One Row - 1

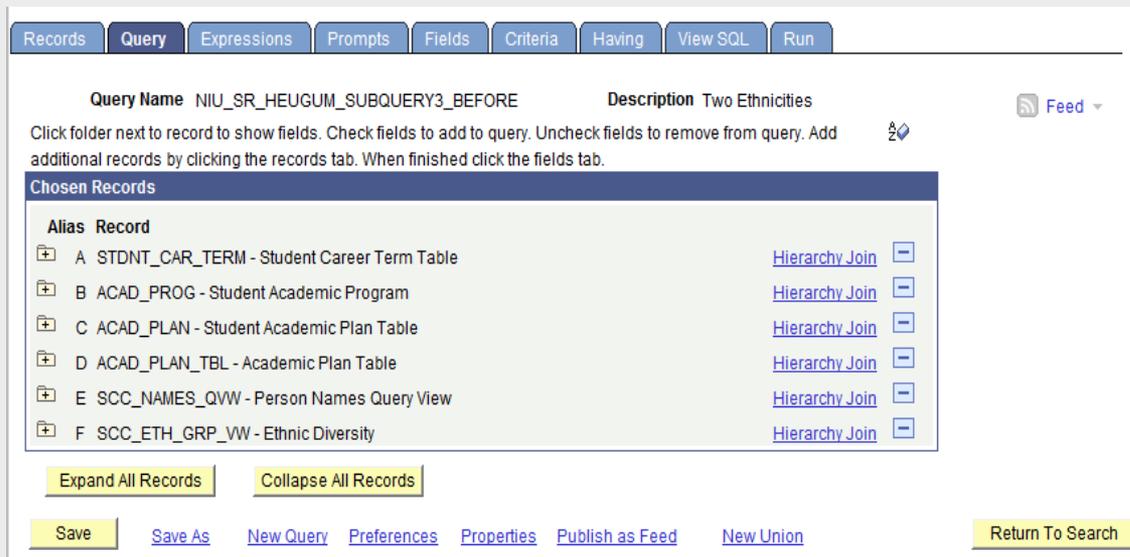
- **Scenario**

- The College of Visual Performing Arts needs to provide a report of their undergraduate students by ethnicity
 - They want all ethnicities that a student has provided
 - In this example, we will only look at two



Show Two Ethnicities on One Row - 2

- Create a query to identify currently enrolled undergraduate students in Visual & Performing Arts
 - Records, tables and views



The screenshot shows a database query interface with the following elements:

- Navigation Tabs:** Records, Query, Expressions, Prompts, Fields, Criteria, Having, View SQL, Run.
- Query Information:** Query Name: NIU_SR_HEUGUM_SUBQUERY3_BEFORE; Description: Two Ethnicities.
- Instructions:** Click folder next to record to show fields. Check fields to add to query. Uncheck fields to remove from query. Add additional records by clicking the records tab. When finished click the fields tab.
- Chosen Records Table:**

| Alias | Record | Hierarchy Join | [-] |
|-------|--|--------------------------------|-----|
| [+] | A STDNT_CAR_TERM - Student Career Term Table | Hierarchy Join | [-] |
| [+] | B ACAD_PROG - Student Academic Program | Hierarchy Join | [-] |
| [+] | C ACAD_PLAN - Student Academic Plan Table | Hierarchy Join | [-] |
| [+] | D ACAD_PLAN_TBL - Academic Plan Table | Hierarchy Join | [-] |
| [+] | E SCC_NAMES_QVW - Person Names Query View | Hierarchy Join | [-] |
| [+] | F SCC_ETH_GRP_VW - Ethnic Diversity | Hierarchy Join | [-] |

Buttons: Expand All Records, Collapse All Records, Save, Save As, New Query, Preferences, Properties, Publish as Feed, New Union, Return To Search.



Show Two Ethnicities on One Row - 3

- **Add fields needed – ID, Academic Plan, Ethnicity**
 - This example uses the ‘Description’ field from the ethnicity *view*

The screenshot shows a query editor interface with a menu bar at the top containing: Records, Query, Expressions, Prompts, Fields, Criteria, Having, View SQL, Run. Below the menu bar, the query name is "NIU_SR_HEUGUM_SUBQUERY3_BEFORE" and the description is "Two Ethnicities". There is a "Feed" icon and a "Reorder / Sort" button. Below this, a text prompt says "View field properties, or use field as criteria in query statement." The main area displays a table with the following columns: Col, Record.Fieldname, Format, Ord, XLAT, Agg, Heading Text, Add Criteria, Edit, and Delete. The table contains three rows:

| Col | Record.Fieldname | Format | Ord | XLAT | Agg | Heading Text | Add Criteria | Edit | Delete |
|-----|--|--------|-----|------|-----|---------------|--------------|------|--------|
| 1 | substr(E.LAST_NAME,1,1) substr(E.FIRST_NAME,1,1) substr(E.MIDDLE_NAME,1,1) substr(A.EMPLID, | Char8 | 1 | | | ID | + | Edit | - |
| 2 | D.DESCR - Description | Char30 | | | | Academic Plan | + | Edit | - |
| 3 | F.DESCR50 - Description | Char50 | | | | Ethnicity | + | Edit | - |

At the bottom of the interface, there are buttons for "Save", "Save As", "New Query", "Preferences", "Properties", "Publish as Feed", "New Union", and "Return To Search".



Show Two Ethnicities on One Row - 4

| | | |
|----------|--------------------------------|--|
| AND47633 | 2-D Studio | Asian |
| ANK75788 | Dance Performance | Hispanic or Latino / Latina |
| ANK75788 | Dance Performance | White / Non Hispanic |
| AR 80247 | Music Education | Hispanic or Latino / Latina |
| ASE37867 | Studio Art-Design & Media Arts | White / Non Hispanic |
| ASN77953 | Music Performance | Black or African American / Non Hispanic |
| ASN77953 | Music Performance | White / Non Hispanic |
| ATJ52931 | 2-D Studio | White / Non Hispanic |
| ATM90401 | Studio Art-Design & Media Arts | White / Non Hispanic |
| BAC87541 | Acting | White / Non Hispanic |
| BAJ80499 | Thea Arts-Design & Technology | White / Non Hispanic |
| BAL71318 | Music Education | White / Non Hispanic |
| BAM56643 | 2-D Studio | White / Non Hispanic |
| BAP09784 | Art and Design Education | White / Non Hispanic |
| BAR33621 | 2-D Studio | White / Non Hispanic |
| BBH42589 | 3-D Studio | Other |
| BCC92629 | Studio Art-Design & Media Arts | White / Non Hispanic |
| BCD07015 | Music Performance | White / Non Hispanic |
| BCJ59896 | Studio Art-Design & Media Arts | Hispanic or Latino / Latina |
| BCJ89545 | Acting | White / Non Hispanic |
| BCM96008 | 2-D Studio | Hispanic or Latino / Latina |
| BCM96008 | 2-D Studio | White / Non Hispanic |
| BCR66040 | 2-D Studio | Black or African American / Non Hispanic |
| BCT61872 | Music Performance | Black or African American / Non Hispanic |
| BDA80001 | Studio Art-Design & Media Arts | White / Non Hispanic |
| BDA87152 | Thea Arts-Design & Technology | White / Non Hispanic |
| BDE44175 | Studio Art-Design & Media Arts | White / Non Hispanic |
| BDG06688 | Studio Art-Design & Media Arts | Black or African American / Non Hispanic |
| BDJ53742 | Studio Art-Design & Media Arts | White / Non Hispanic |
| BDM47886 | Studio Art-Design & Media Arts | White / Non Hispanic |
| BDN74798 | Dance Performance | White / Non Hispanic |
| BEJ25018 | Studio Art-Design & Media Arts | White / Non Hispanic |

- Run the query – query returns a row for every ethnicity that a student has ‘declared’



Show Two Ethnicities on One Row - 5

- To solve problem, create the same query to identify currently enrolled undergraduates in Visual & Performing Arts
- Create two subqueries



Show Two Ethnicities on One Row - 6

Subquery on ETHNIC_GRP_CD
from SCC_ETH_GRP_VW

Add SCC_ETH_GRP_VW to the
subquery

Choose Expression 1 Type

Field
 Expression

Expression 1

Choose Record and Field

Record Alias.Fieldname:

F.ETHNIC_GRP_CD - Ethnic Group

*Condition Type: equal to

Choose Expression 2 Type

Field
 Expression
 Constant
 Prompt
 Subquery

Expression 2

Define Subquery

Define/Edit Subquery

OK Cancel

Records Query Expressions Prompts Fields Criteria Having View SQL Run

Query Name NIU_SR_HEUGUM_SUBQUERY3_AFTER Description Two Ethnicities

Working on selection Subquery for F.ETHNIC_GRP_CD - Ethnic Group

*Search By Record Name begins with

Search Advanced Search

Search Results

| Record | Personalize | Find | View All | First | 1-2 of 2 | Last |
|--|-------------|-------------|----------|-------|----------|------|
| SCC_ETH_GRP_VW - Ethnic Diversity | Add Record | Show Fields | | | | |
| SCC_ETH_PRI_VW - Ethnic Group Primary View | Add Record | Show Fields | | | | |

Save Save As New Query Preferences Properties Publish as Feed New Union Return To Search

Select the field ETHNIC_GRP_CD, edit the Field Properties and select the 'Min' aggregate

Chosen Records

Alias Record

SCC_ETH_GRP_VW - Ethnic Diversity

Fields

- Select EMPLID - Empl ID
- Select REG_REGION - Regulatory Region
- Select ETHNIC_GRP_CD - Ethnic Group
- Select SETID - SetID
- Select APS_EC_NDS_AUS - Refused Ethnicity Details
- Select PRIMARY_INDICATOR - Primary Indicator for Multiple
- Select ETHNIC_GROUP - Ethnic Group
- Select ETHNIC_CATEGORY - Ethnic Category
- Select EFF_STATUS - Status as of Effective Date
- Select DESCOR50 - Description
- Select DESCORSHORT - Short Description

Edit Field Properties

Field Name: G.ETHNIC_GRP_CD - Ethnic Group

Heading

No Heading RFT Short

Text RFT Long

Heading Text:

Min Ethnic Grp

*Unique Field Name:

G.ETHNIC_GRP_CD

Aggregate

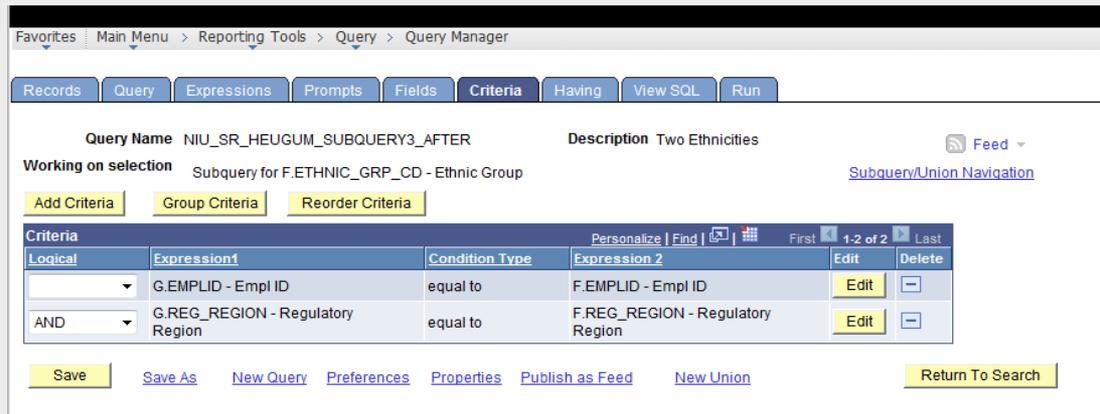
None
 Sum
 Count
 Min
 Max
 Average

OK Cancel



Show Two Ethnicities on One Row - 7

- Add criteria joining the subquery instance of SCC_ETH_GRP_VW back to the top-level instance of SCC_ETH_GRP_VW



The screenshot shows a web-based Query Manager interface. The breadcrumb trail is: Favorites > Main Menu > Reporting Tools > Query > Query Manager. The interface includes tabs for Records, Query, Expressions, Prompts, Fields, Criteria, Having, View SQL, and Run. The current query is 'NIU_SR_HEUGUM_SUBQUERY3_AFTER' with the description 'Two Ethnicities'. It is working on a selection of 'Subquery for F.ETHNIC_GRP_CD - Ethnic Group'. There are buttons for 'Add Criteria', 'Group Criteria', and 'Reorder Criteria'. A table of criteria is displayed with columns for Logical, Expression1, Condition Type, Expression 2, Edit, and Delete. The table contains two criteria: one with a dropdown arrow, Expression1 'G.EMPLID - Empl ID', Condition Type 'equal to', Expression 2 'F.EMPLID - Empl ID', and Edit/Delete buttons; and another with Logical 'AND', Expression1 'G.REG_REGION - Regulatory Region', Condition Type 'equal to', Expression 2 'F.REG_REGION - Regulatory Region', and Edit/Delete buttons. At the bottom, there are buttons for 'Save', 'Save As', 'New Query', 'Preferences', 'Properties', 'Publish as Feed', 'New Union', and 'Return To Search'.

Query Name: NIU_SR_HEUGUM_SUBQUERY3_AFTER Description: Two Ethnicities

Working on selection: Subquery for F.ETHNIC_GRP_CD - Ethnic Group

Criteria

| Logical | Expression1 | Condition Type | Expression 2 | Edit | Delete |
|---------|----------------------------------|----------------|----------------------------------|------|--------|
| | G.EMPLID - Empl ID | equal to | F.EMPLID - Empl ID | Edit | [-] |
| AND | G.REG_REGION - Regulatory Region | equal to | F.REG_REGION - Regulatory Region | Edit | [-] |



Show Two Ethnicities on One Row - 8

- Return to the top level of the query and add another instance of SCC_ETH_GRP_VW

Records Query Expressions Prompts Fields Criteria Having View SQL Run

Query Name NIU_SR_HEUGUM_SUBQUERY3_AFTER Description Two Ethnicities [Feed](#)

Working on selection Top Level of Query [Subquery/Union Navigation](#)

Click folder next to record to show fields. Check fields to add to query. Uncheck fields to remove from query. Add additional records by clicking the records tab. When finished click the fields tab.

Chosen Records

| Alias | Record | |
|--------------------------|--|---|
| <input type="checkbox"/> | A STDNT_CAR_TERM - Student Career Term Table | Hierarchy Join <input type="checkbox"/> |
| <input type="checkbox"/> | B ACAD_PROG - Student Academic Program | Hierarchy Join <input type="checkbox"/> |
| <input type="checkbox"/> | C ACAD_PLAN - Student Academic Plan Table | Hierarchy Join <input type="checkbox"/> |
| <input type="checkbox"/> | D ACAD_PLAN_TBL - Academic Plan Table | Hierarchy Join <input type="checkbox"/> |
| <input type="checkbox"/> | E SCC_NAMES_QVW - Person Names Query View | Hierarchy Join <input type="checkbox"/> |
| <input type="checkbox"/> | F SCC_ETH_GRP_VW - Ethnic Diversity | Hierarchy Join <input type="checkbox"/> |
| <input type="checkbox"/> | H SCC_ETH_GRP_VW - Ethnic Diversity | Hierarchy Join <input type="checkbox"/> |

[Expand All Records](#) [Collapse All Records](#)

[Save](#) [Save As](#) [New Query](#) [Preferences](#) [Properties](#) [Publish as Feed](#) [New Union](#) [Return To Search](#)



Show Two Ethnicities on One Row - 9

- Create a subquery for ETHNIC_GRP_CD from the second top-level instance of the view
 - Repeat the same steps as before except
 - Select the 'Max' aggregate on the Edit Field Properties page for the ETHNIC_GRP_CD field within the second subquery

Edit Field Properties

Field Name: I.ETHNIC_GRP_CD - Ethnic Group

| Heading | Aggregate |
|---|--------------------------------------|
| <input type="radio"/> No Heading | <input type="radio"/> None |
| <input checked="" type="radio"/> RFT Short | <input type="radio"/> Sum |
| <input type="radio"/> Text | <input type="radio"/> Count |
| <input type="radio"/> RFT Long | <input type="radio"/> Min |
| Heading Text: <input type="text" value="Ethnic Grp"/> | <input checked="" type="radio"/> Max |
| *Unique Field Name: <input type="text" value="I.ETHNIC_GRP_CD"/> | <input type="radio"/> Average |



Show Two Ethnicities on One Row - 10

- **Return to the top level of the query**
 - Add the field of DESCR50 from the first instance of the ethnicity view and create an expression for the DESCR50 field from the second instance of the ethnicity view
 - This is done so that in the case the the 'min' and 'max' ethnicities are the same, only a different ethnicity will show

Edit Expression Properties

*Expression Type: Character Length: 50

Aggregate Function Decimals:

Expression Text:
case
when H.ETHNIC_GRP_CD <=> F.ETHNIC_GRP_CD then
H.DESCR50
end

[Add Prompt](#) [Add Field](#)

Records Query Expressions Prompts Fields Criteria Having View SQL Run

Query Name NIU_SR_HEUGUM_SUBQUERY3_AFTER Description Two Ethnicities

Working on selection Top Level of Query

View field properties, or use field as criteria in query statement.

| Col | Record.Fieldname | Format | Ord | XLAT | Acq | Heading Text | Add Criteria | Edit | Delete |
|-----|--|--------|-----|------|-----|---------------|--------------|------|--------|
| 1 | substr(E.LAST_NAME,1,1) substr(E.FIRST_NAME,1,1) substr(E.MIDDLE_NAME,1,1) substr(A.EMPLID, | Char8 | 1 | | | ID | | Edit | |
| 2 | D.DESCR - Description | Char30 | | | Max | Academic Plan | | Edit | |
| 3 | F.DESCR50 - Description | Char50 | | | | Ethnicity 1 | | Edit | |
| 4 | case when H.ETHNIC_GRP_CD <=> F.ETHNIC_GRP_CD then H.DESCR50 end | Char50 | | | Max | Ethnicity 2 | | Edit | |

[Save](#) [Save As](#) [New Query](#) [Preferences](#) [Properties](#) [Publish as Feed](#) [New Union](#) [Return To Search](#)



Show Two Ethnicities on One Row - 11

- Run the query and compare

| | | |
|----------|--------------------------------|--|
| AND47633 | 2-D Studio | Asian |
| ANK75788 | Dance Performance | Hispanic or Latino / Latina |
| ANK75788 | Dance Performance | White / Non Hispanic |
| AR 80247 | Music Education | Hispanic or Latino / Latina |
| ASE37867 | Studio Art-Design & Media Arts | White / Non Hispanic |
| ASN77953 | Music Performance | Black or African American / Non Hispanic |
| ASN77953 | Music Performance | White / Non Hispanic |
| ATJ52931 | 2-D Studio | White / Non Hispanic |
| ATM90401 | Studio Art-Design & Media Arts | White / Non Hispanic |
| BAC87541 | Acting | White / Non Hispanic |
| BAJ80499 | Thea Arts-Design & Technology | White / Non Hispanic |
| BAL71318 | Music Education | White / Non Hispanic |
| BAM56643 | 2-D Studio | White / Non Hispanic |
| BAP09784 | Art and Design Education | White / Non Hispanic |
| BAR33621 | 2-D Studio | White / Non Hispanic |
| BBH42589 | 3-D Studio | Other |
| BCC92629 | Studio Art-Design & Media Arts | White / Non Hispanic |
| BCD07015 | Music Performance | White / Non Hispanic |
| BCJ59896 | Studio Art-Design & Media Arts | Hispanic or Latino / Latina |
| BCJ89545 | Acting | White / Non Hispanic |
| BCM96008 | 2-D Studio | Hispanic or Latino / Latina |
| BCM96008 | 2-D Studio | White / Non Hispanic |
| BCR66040 | 2-D Studio | Black or African American / Non Hispanic |
| BCT61872 | Music Performance | Black or African American / Non Hispanic |
| BDA80001 | Studio Art-Design & Media Arts | White / Non Hispanic |
| BDA87152 | Thea Arts-Design & Technology | White / Non Hispanic |
| BDE44175 | Studio Art-Design & Media Arts | White / Non Hispanic |
| BDG06688 | Studio Art-Design & Media Arts | Black or African American / Non Hispanic |
| BDJ53742 | Studio Art-Design & Media Arts | White / Non Hispanic |
| BDM47886 | Studio Art-Design & Media Arts | White / Non Hispanic |
| BDN74798 | Dance Performance | White / Non Hispanic |
| BEJ25018 | Studio Art-Design & Media Arts | White / Non Hispanic |

| | | | |
|----------|--------------------------------|--|----------------------|
| AND47633 | 2-D Studio | Asian | |
| ANK75788 | Dance Performance | Hispanic or Latino / Latina | White / Non Hispanic |
| AR 80247 | Music Education | Hispanic or Latino / Latina | |
| ASE37867 | Studio Art-Design & Media Arts | White / Non Hispanic | |
| ASN77953 | Music Performance | Black or African American / Non Hispanic | White / Non Hispanic |
| ATJ52931 | 2-D Studio | White / Non Hispanic | |
| ATM90401 | Studio Art-Design & Media Arts | White / Non Hispanic | |
| BAC87541 | Acting | White / Non Hispanic | |
| BAJ80499 | Thea Arts-Design & Technology | White / Non Hispanic | |
| BAL71318 | Music Education | White / Non Hispanic | |
| BAM56643 | 2-D Studio | White / Non Hispanic | |
| BAP09784 | Art and Design Education | White / Non Hispanic | |
| BAR33621 | 2-D Studio | White / Non Hispanic | |
| BBH42589 | 3-D Studio | Other | |
| BCC92629 | Studio Art-Design & Media Arts | White / Non Hispanic | |
| BCD07015 | Music Performance | White / Non Hispanic | |
| BCJ59896 | Studio Art-Design & Media Arts | Hispanic or Latino / Latina | |
| BCJ89545 | Acting | White / Non Hispanic | |
| BCM96008 | 2-D Studio | Hispanic or Latino / Latina | White / Non Hispanic |
| BCR66040 | 2-D Studio | Black or African American / Non Hispanic | |
| BCT61872 | Music Performance | Black or African American / Non Hispanic | |
| BDA80001 | Studio Art-Design & Media Arts | White / Non Hispanic | |
| BDA87152 | Thea Arts-Design & Technology | White / Non Hispanic | |
| BDE44175 | Studio Art-Design & Media Arts | White / Non Hispanic | |



Address Usage Order – 1

- **Scenario**

- The Office of Student Academic Success wants to send a mailing to all currently enrolled sophomores
 - OSAS wants to send to each student's most local address but not all students have an address type of local or residence hall



Address Usage Order – 2

- A query is built to identify currently enrolled sophomores and list all address types available (residence hall, local, permanent)

Records Query Expressions Prompts Fields Criteria Having View SQL Run

Query Name NIU_SR_HEUGUM_SUBQUERY4_BEFORE Description Addresses

Click folder next to record to show fields. Check fields to add to query. Uncheck fields to remove from query. Add additional records by clicking the records tab. When finished click the fields tab.

Chosen Records

| Alias | Record | |
|--------------------------|--|--------------------------------|
| <input type="checkbox"/> | A STDNT_CAR_TERM - Student Career Term Table | Hierarchy Join |
| <input type="checkbox"/> | B ADDRESSES - Address Type | Hierarchy Join |
| <input type="checkbox"/> | C SCC_NAMES_QVW - Person Names Query View | Hierarchy Join |

[Expand All Records](#) [Collapse All Records](#)

[Save](#) [Save As](#) [New Query](#) [Preferences](#) [Properties](#) [Publish as Feed](#) [New Union](#)

Records and Views

Records Query Expressions Prompts Fields Criteria Having View SQL Run

Query Name NIU_SR_HEUGUM_SUBQUERY4_BEFORE Description Addresses

View field properties, or use field as criteria in query statement.

Fields

| Col | Record | Fieldname | Format | Ord | XLAT | Agg | Heading | Text | Add Criteria | Edit | Delete |
|-----|--------|--|--------|-----|------|-----|-----------|------|--------------------------|----------------------|--------------------------|
| 1 | | substr(C.LAST_NAME,1,1) substr(C.FIRST_NAME,1,1) substr(C.MIDDLE_NAME,1,1) substr(A.EMPLID, | Char8 | 1 | | | ID | | <input type="checkbox"/> | Edit | <input type="checkbox"/> |
| 2 | B | ADDRESS_TYPE - Address Type | Char4 | 2 | | | Addr Type | | <input type="checkbox"/> | Edit | <input type="checkbox"/> |
| 3 | B | ADDRESS1 - Address Line 1 | Char55 | | | | Address 1 | | <input type="checkbox"/> | Edit | <input type="checkbox"/> |
| 4 | B | CITY - City | Char30 | | | | City | | <input type="checkbox"/> | Edit | <input type="checkbox"/> |
| 5 | B | STATE - State | Char6 | | | | State | | <input type="checkbox"/> | Edit | <input type="checkbox"/> |

[Save](#) [Save As](#) [New Query](#) [Preferences](#) [Properties](#) [Publish as Feed](#) [New Union](#) [Return To Search](#)

Fields



Address Usage Order – 3

- Results
 - One row per student per address type available
 - OSAS has to sort through 3,854 rows of data to get the most local address for each student

| ID | Addr Type | Address 1 | City | State |
|----------|-----------|---------------------------------|------|-------|
| AA 15492 | PERM | 720 regent Dr. Apt 3 | D | IL |
| AA 82833 | PERM | 5312 Glenbrook Trail | M | IL |
| AAA09200 | LOCL | 760 Regent Drive Apt. #4 | D | IL |
| AAA09200 | PERM | 2701 Larkspur Lane | H | IL |
| AAA34899 | PERM | 186 highbury drive | e | IL |
| AAA49158 | PERM | 408 River Lane | L | IL |
| AAA64304 | PERM | 618 Palace Street | A | IL |
| AAA64304 | RES | Neptune East 0219 | D | IL |
| AAD05551 | PERM | 11512 South Eggleston | C | IL |
| AAD05551 | RES | 2 Northern View Circle 0103 | D | IL |
| AAD16065 | PERM | 502 Oakland Avenue | M | IL |
| AAD34071 | PERM | 1723 Windward Ave | N | IL |
| AAD45644 | PERM | 135 Willow Road | F | IL |
| AAE00923 | PERM | 728 Kimberly Drive | D | IL |
| AAE13537 | PERM | 412 Chopin | S | IL |
| AAE69473 | PERM | 1660 Brentwood Ln | V | IL |
| AAI30743 | PERM | 1299 Scenic Rd | D | IL |
| AAJ01057 | PERM | 5140 Ellington Avenue | V | IL |
| AAJ37070 | PERM | 10936 Saffron Ct. | C | IL |
| AAJ37840 | PERM | 460 N Main Street #N207 | V | IL |
| AAJ40922 | PERM | 706 N Elmhurst Ave | M | IL |
| AAJ41606 | PERM | 14835 S. Kimbark Ave | D | IL |
| AAJ41606 | RES | Stevenson Tower A 0620 | D | IL |
| AAJ86762 | LOCL | 1120 Varsity BLV, Apartment 227 | D | IL |
| AAJ86762 | PERM | 1185 Lady Bird Dr | S | IL |
| AAJ90077 | PERM | 5830 N Kenmore Avenue Apt 410 | C | IL |
| AAJ90077 | RES | Douglas C 0369 | D | IL |
| AAN09194 | PERM | 726 Palace St. | A | IL |
| AAO08379 | PERM | 1936 Hope Ct. | L | IL |
| AAO60272 | PERM | PO Box 669 | L | IL |
| AAO60272 | RES | Douglas D 0275 | D | IL |
| AAP78891 | PERM | 215 S London Ave | F | IL |



Address Usage Order – 4

- To solve problem, create query using a modified view that issues each address type a value
 - ADDR_USAGE_VW

Records Query Expressions Prompts Fields Criteria Having View SQL Run

Query Name NIU_SR_HEUGUM_SUBQUERY4_AFTER Description Addresses

Working on selection Top Level of Query [Subque](#)

Click folder next to record to show fields. Check fields to add to query. Uncheck fields to remove from query. Add additional records by clicking the records tab. When finished click the fields tab.

Chosen Records

| Alias | Record | |
|-------|--|--------------------------------|
| | A STDNT_CAR_TERM - Student Career Term Table | Hierarchy Join |
| | B ADDR_USAGE_VW - Addr Usage Selection View | Hierarchy Join |
| | C SCC_NAMES_QVW - Person Names Query View | Hierarchy Join |

[Expand All Records](#) [Collapse All Records](#)

[Save](#) [Save As](#) [New Query](#) [Preferences](#) [Properties](#) [Publish as Feed](#) [New Union](#)

Records and Views

Records Query Expressions Prompts Fields Criteria Having View SQL Run

Query Name NIU_SR_HEUGUM_SUBQUERY4_AFTER Description Addresses [Feed](#)

Working on selection Top Level of Query [Subquery/Union Navigation](#)

View field properties, or use field as criteria in query statement. [Reorder / Sort](#)

| Col | Record | Fieldname | Format | Ord | XLAT | Agg | Heading Text | Add Criteria | Edit | Delete |
|-----|--|-----------|--------|-----|------|-----|--------------|--------------|----------------------|--------|
| 1 | (C.FIRST_NAME,1,1) substr(C.LAST_NAME,1,1) substr(C.MIDDLE_NAME,1,1) substr(A.EMPLID, | | Char8 | 1 | | | ID | | Edit | |
| 2 | B.ADDRESS_TYPE - Address Type | | Char4 | | | | Addr Type | | Edit | |
| 3 | B.ADDRESS1 - Address Line 1 | | Char55 | | | | Address 1 | | Edit | |
| 4 | B.CITY - City | | Char30 | | | | City | | Edit | |
| 5 | B.STATE - State | | Char6 | | | | State | | Edit | |

[Save](#) [Save As](#) [New Query](#) [Preferences](#) [Properties](#) [Publish as Feed](#) [New Union](#) [Return To Search](#)

Fields



Address Usage Order - 5

- Select Criteria on ADDR_USAGE_ORDER from ADDR_USAGE_VW equal to Subquery
- Define/Edit the Subquery and search for and add ADDR_USAGE_VW

Edit Criteria Properties

Choose Expression 1 Type

Field
 Expression

Expression 1

Choose Record and Field

Record Alias.Fieldname:
B.ADDR_USAGE_ORDER - Address U

*Condition Type: equal to

Choose Expression 2 Type

Field
 Expression
 Constant
 Prompt
 Subquery

Expression 2

Define Subquery

[Define/Edit Subquery](#)

OK Cancel

Records Query Expressions Prompts Fields Criteria Having View SQL Run

Query Name NIU_SR_HEUGUM_SUBQUERY4_AFTER Description Addresses

Working on selection Subquery for B.ADDR_USAGE_ORDER - Address Usage Order

*Search By Record Name begins with ADDR_USAGE_VW

Search Advanced Search

Search Results

| Record | Personalize | Find | View All | First | 1-2 of 2 | Last |
|--|-------------|-------------|----------|-------|----------|------|
| ADDR_USAGE_VW - Addr Usage Selection View | Join Record | Show Fields | | | | |
| ADDR_USAGE_VW2 - Addr Usage Selection View 2 | Join Record | Show Fields | | | | |

Save Save As New Query Preferences Properties Publish as Feed New Union



Address Usage Order – 6

- **Select ADDR_USAGE_ORDER**
 - Edit Field Properties and select the 'Min' aggregate

Edit Field Properties

Field Name: D.ADDR_USAGE_ORDER - Address Usage Order

| Heading | Aggregate |
|--|--------------------------------------|
| <input type="radio"/> No Heading | <input type="radio"/> None |
| <input checked="" type="radio"/> RFT Short | <input type="radio"/> Sum |
| <input type="radio"/> Text | <input type="radio"/> Count |
| <input type="radio"/> RFT Long | <input checked="" type="radio"/> Min |
| Heading Text: Usage Ord | <input type="radio"/> Max |
| *Unique Field Name: D.ADDR_USAGE_ORDER | <input type="radio"/> Average |

OK Cancel

Records Query Expressions Prompts **Fields** Criteria Having View SQL Run

Query Name NIU_SR_HEUGUM_SUBQUERY4_AFTER Description Addresses

Working on selection Subquery for B.ADDR_USAGE_ORDER - Address Usage Order

View field properties, or use field as criteria in query statement.

| Col | Record.Fieldname | Format | Ord | XLAT | Aqq | Heading Text | Add Criteria | Edit | Delete |
|-----|--|--------|-----|------|-----|-------------------|--------------|------|--------|
| 1 | D.ADDR_USAGE_ORDER - Address Usage Order | Num4.0 | | | | Min Min Usage Ord | | Edit | |

Save Save As New Query Preferences Properties Publish as Feed New Union Return To Search



Address Usage Order – 7

- After joining the subquery instance of the address view back to the top level instance of the address view, return to the top level of the query
 - Add the address fields to the query

Query Name NIU_SR_HEUGUM_SUBQUERY4_AFTER Description Addresses

Working on selection Subquery for B.ADDR_USAGE_ORDER - Address Usage Order

Criteria

| Logical | Expression1 | Condition Type | Expression 2 | Edit | Delete |
|---------|------------------------------|----------------|------------------------------|------|--------|
| | D.EFFDT - Effective Date | Eff Date <= | Current Date | Edit | |
| AND | D.EMPLID - Empl ID | equal to | B.EMPLID - Empl ID | Edit | |
| AND | D.ADDR_USAGE - Address Usage | equal to | B.ADDR_USAGE - Address Usage | Edit | |

Subquery criteria

Query Name NIU_SR_HEUGUM_SUBQUERY4_AFTER Description Addresses

Working on selection Top Level of Query

View field properties, or use field as criteria in query statement.

Fields

| Col | Record.FieldName | Format | Ord | XLAT | Agg | Heading Text | Add Criteria | Edit | Delete |
|-----|--|--------|-----|------|-----|--------------|--------------|------|--------|
| 1 | substr(C.LAST_NAME,1,1) substr(C.FIRST_NAME,1,1) substr(C.MIDDLE_NAME,1,1) substr(A.EMPLID, | Char8 | 1 | | | ID | | Edit | |
| 2 | B.ADDRESS_TYPE - Address Type | Char4 | | | | Addr Type | | Edit | |
| 3 | B.ADDRESS1 - Address Line 1 | Char55 | | | | Address 1 | | Edit | |
| 4 | B.CITY - City | Char30 | | | | City | | Edit | |
| 5 | B.STATE - State | Char6 | | | | State | | Edit | |

Query Fields



Address Usage Order – 8

- Run query and compare results

| ID | Addr Type | Address 1 | City | State |
|----------|-----------|---------------------------------|------|-------|
| AA 15492 | PERM | 720 regent Dr. Apt 3 | | IL |
| AA 82833 | PERM | 5312 Glenbrook Trail | | IL |
| AAA09200 | LOCL | 760 Regent Drive Apt. #4 | | IL |
| AAA09200 | PERM | 2701 Larkspur Lane | | IL |
| AAA34899 | PERM | 186 highbury drive | | IL |
| AAA49158 | PERM | 408 River Lane | | IL |
| AAA64304 | PERM | 618 Palace Street | | IL |
| AAA64304 | RES | Neptune East 0219 | | IL |
| AAD05551 | PERM | 11512 South Eggleston | | IL |
| AAD05551 | RES | 2 Northern View Circle 0103 | | IL |
| AAD16065 | PERM | 502 Oakland Avenue | | IL |
| AAD34071 | PERM | 1723 Windward Ave | | IL |
| AAD45644 | PERM | 135 Willow Road | | IL |
| AAE00923 | PERM | 728 Kimberly Drive | | IL |
| AAE13537 | PERM | 412 Chopin | | IL |
| AAE69473 | PERM | 1660 Brentwood Ln | | IL |
| AAI30743 | PERM | 1299 Scenic Rd | | IL |
| AAJ01057 | PERM | 5140 Ellington Avenue | | IL |
| AAJ37070 | PERM | 10936 Saffron Ct. | | IL |
| AAJ37840 | PERM | 460 N Main Street #N207 | | IL |
| AAJ40922 | PERM | 706 N Elmhurst Ave | | IL |
| AAJ41606 | PERM | 14835 S. Kimbark Ave | | IL |
| AAJ41606 | RES | Stevenson Tower A 0620 | | IL |
| AAJ86762 | LOCL | 1120 Varsity BLV, Apartment 227 | | IL |
| AAJ86762 | PERM | 1185 Lady Bird Dr | | IL |
| AAJ90077 | PERM | 5830 N Kenmore Avenue Apt 410 | | IL |
| AAJ90077 | RES | Douglas C 0369 | | IL |
| AAN09194 | PERM | 726 Palace St. | | IL |
| AAO08379 | PERM | 1936 Hope Ct. | | IL |
| AAO60272 | PERM | PO Box 669 | | IL |
| AAO60272 | RES | Douglas D 0275 | | IL |
| AAP78891 | PERM | 215 S London Ave | | IL |

| ID | Addr Type | Address 1 | City | State |
|----------|-----------|---------------------------------|------|-------|
| AA 15492 | PERM | 720 regent Dr. Apt 3 | | IL |
| AA 82833 | PERM | 5312 Glenbrook Trail | | IL |
| AAA09200 | LOCL | 760 Regent Drive Apt. #4 | | IL |
| AAA34899 | PERM | 186 highbury drive | | IL |
| AAA49158 | PERM | 408 River Lane | | IL |
| AAA64304 | RES | Neptune East 0219 | | IL |
| AAD05551 | RES | 2 Northern View Circle 0103 | | IL |
| AAD16065 | PERM | 502 Oakland Avenue | | IL |
| AAD34071 | PERM | 1723 Windward Ave | | IL |
| AAD45644 | PERM | 135 Willow Road | | IL |
| AAE00923 | PERM | 728 Kimberly Drive | | IL |
| AAI30743 | PERM | 1299 Scenic Rd | | IL |
| AAJ01057 | PERM | 5140 Ellington Avenue | | IL |
| AAJ37070 | PERM | 10936 Saffron Ct. | | IL |
| AAJ37840 | PERM | 460 N Main Street #N207 | | IL |
| AAJ41606 | RES | Stevenson Tower A 0620 | | IL |
| AAJ86762 | LOCL | 1120 Varsity BLV, Apartment 227 | | IL |
| AAJ90077 | RES | Douglas C 0369 | | IL |
| AAN09194 | PERM | 726 Palace St. | | IL |
| AAO60272 | RES | Douglas D 0275 | | IL |
| AAP78891 | PERM | 215 S London Ave | | IL |



Exclusion of a Field Value – A1

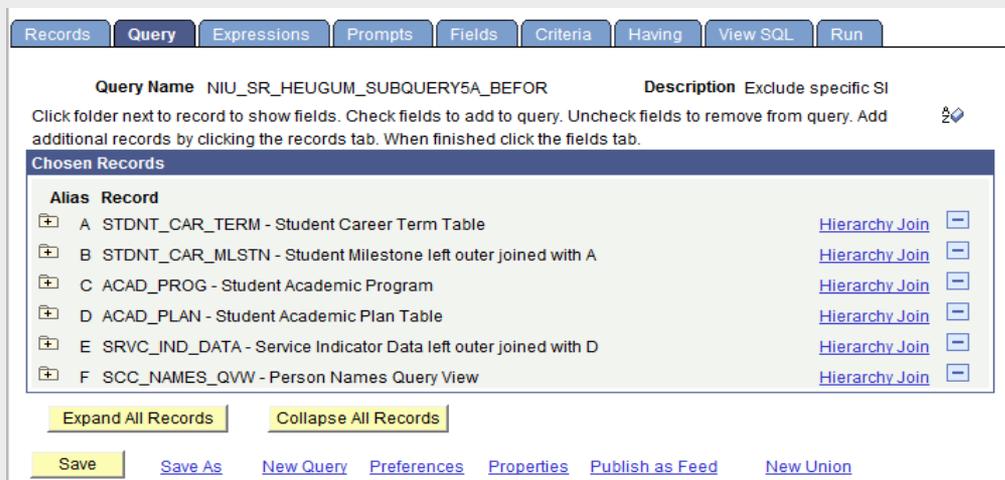
- **Scenario**

- The Office of Teacher Certification wants to identify recently graduated students who do not have the ISB service indicator
 - Students may have more than one service indicator, which makes it difficult to exclude one where another may exist
 - At NIU, the ISB service indicator is a positive service indicator that is placed to show that those students have been recommended for teacher certification with the Illinois State Board of Education



Exclusion of a Field Value – A2

- A query is built to identify students who recently graduated and were pursuing teacher certification
 - The students who do not yet have the ISB service indicator need to be identified



The screenshot shows a query tool interface with a top navigation bar containing tabs: Records, Query, Expressions, Prompts, Fields, Criteria, Having, View SQL, and Run. Below the navigation bar, the query name is 'NIU_SR_HEUGUM_SUBQUERY5A_BEFOR' and the description is 'Exclude specific SI'. A message below the query name reads: 'Click folder next to record to show fields. Check fields to add to query. Uncheck fields to remove from query. Add additional records by clicking the records tab. When finished click the fields tab.' Below this message is a section titled 'Chosen Records' with a table of records:

| Alias | Record | |
|--------------------------|---|---|
| <input type="checkbox"/> | A STDNT_CAR_TERM - Student Career Term Table | Hierarchy Join <input type="checkbox"/> |
| <input type="checkbox"/> | B STDNT_CAR_MLSTN - Student Milestone left outer joined with A | Hierarchy Join <input type="checkbox"/> |
| <input type="checkbox"/> | C ACAD_PROG - Student Academic Program | Hierarchy Join <input type="checkbox"/> |
| <input type="checkbox"/> | D ACAD_PLAN - Student Academic Plan Table | Hierarchy Join <input type="checkbox"/> |
| <input type="checkbox"/> | E SRVC_IND_DATA - Service Indicator Data left outer joined with D | Hierarchy Join <input type="checkbox"/> |
| <input type="checkbox"/> | F SCC_NAMES_QVW - Person Names Query View | Hierarchy Join <input type="checkbox"/> |

Below the table are two buttons: 'Expand All Records' and 'Collapse All Records'. At the bottom of the interface are several action buttons: 'Save', 'Save As', 'New Query', 'Preferences', 'Properties', 'Publish as Feed', and 'New Union'.

Query Records and Views



Exclusion of a Field Value – A3

- An expression is written to identify the ISB service indicator, for whom it exists
 - The resulting data would be exported, sorted and those with 'ISB' deleted

Records Query Expressions Prompts Fields Criteria Having View SQL Run

Query Name NIU_SR_HEUGUM_SUBQUERY5A_BEFOR Description Exclude specific SI Feed

View field properties, or use field as criteria in query statement. Reorder / Sort

| Col | Record.FieldName | Format | Ord | XLAT | Agg | Heading Text | Add Criteria | Edit | Delete |
|-----|--|--------|-----|------|-----|--------------|--------------|------|--------|
| 1 | substr(F.LAST_NAME,1,1) substr(F.FIRST_NAME,1,1) substr(F.MIDDLE_NAME,1,1) substr(A.EMPLID, | Char8 | 1 | | | ID | | Edit | |
| 2 | C.ACAD_PROG - Academic Program | Char5 | | | | Acad Prog | | Edit | |
| 3 | case when B.MILESTONE >= '2010' and B.MILESTONE <= '5520' then B.MILESTONE end | Char4 | | | Max | Milestone | | Edit | |
| 4 | case when E.SRVC_IND_CD = 'ISB' then 'ISB' end | Char3 | | | Max | ISB SI | | Edit | |

Save Save As New Query Preferences Properties Publish as Feed New Union Return To Search



Exclusion of a Field Value – A4

- Resulting Data from initial query

[in Query](#) | [Download to Excel](#) | [Download to XML](#) First 1-100 of 693 Last

| ID | Acad Prog | Milestone | ISB SI |
|----------|-----------|-----------|--------|
| AAL37605 | GHHS | 2707 | ISB |
| AAM38684 | EDU | 2050 | ISB |
| ABG31650 | GEDU | | |
| ACA29946 | GEDU | 2701 | |
| ACM68021 | HHS | 5003 | ISB |
| ADL98739 | EDU | | ISB |
| AE 87591 | EDU | | ISB |
| AEE47518 | EDU | 2035 | ISB |
| AJJ38898 | EDU | 2082 | ISB |
| AJL92493 | GEDU | 2702 | ISB |
| AKA28276 | EDU | 2035 | ISB |
| AKE61869 | EDU | | |
| AKM94811 | GEDU | | |
| AKS44156 | EDU | | ISB |
| AMH83077 | EDU | 2050 | ISB |
| AMJ21369 | LAS | 4080 | ISB |
| AMR53818 | LAS | 4040 | ISB |
| AO 26853 | GEDU | | |
| ASA26094 | EDU | | |
| ASL21344 | GEDU | 2705 | |
| ASL53829 | EDU | | ISB |
| BAK84852 | EDU | 2015 | ISB |
| BAL99754 | EDU | | ISB |
| BAM93723 | GEDU | 2703 | ISB |
| BAN58581 | EDU | | ISB |
| BBA18144 | GHHS | 2707 | ISB |
| BBA40168 | LAS | 4090 | ISB |

Teacher Certification is only interested in those who do not yet have the ISB service indicator



Exclusion of a Field Value – A5

- To solve the problem, a query is written with a subquery where EMPL is 'not in list' of those students who have the ISB service indicator

| | | | | | |
|-----|--|-------------|--------------------------------------|------|--|
| AND | C.ACAD_CAREER - Academic Career | equal to | D.ACAD_CAREER - Academic Career | Edit | |
| AND | C.STDNT_CAR_NBR - Student Career Nbr | equal to | D.STDNT_CAR_NBR - Student Career Nbr | Edit | |
| AND | C.EFFSEQ - Effective Sequence | equal to | D.EFFSEQ - Effective Sequence | Edit | |
| AND | D.EFFDT - Effective Date | Eff Date <= | Current Date (EffSeq = Last) | Edit | |
| AND | A.ACAD_LEVEL_BOT - Academic Level - Term Start | in list | ('30','40','G1','G2') | Edit | |
| AND | (C.ACAD_PROG - Academic Program | in list | ('EDU','EDU2','GEDU') | Edit | |
| OR | B.MILESTONE - Milestone | between | 2010 AND 5520) | Edit | |
| AND | C.PROG_STATUS - Academic Program Status | equal to | CM | Edit | |
| AND | A.EMPLID - Empl ID | equal to | G.EMPLID - Empl ID | Edit | |
| AND | G.EFFDT - Effective Date | Eff Date <= | Current Date | Edit | |
| AND | G.NAME_TYPE - Type of Name | equal to | PRI | Edit | |
| AND | A.EMPLID - Empl ID | not in list | SUBQUERY | Edit | |

Save Save As New Query Preferences Properties Publish as Feed New Union Return To S

Edit Criteria Properties

Choose Expression 1 Type

Field
 Expression

Expression 1

Choose Record and Field

Record Alias.FieldName:

A.EMPLID - Empl ID

*Condition Type: not in list

Choose Expression 2 Type

In List
 Subquery

Expression 2

Define Subquery

Define/Edit Subquery

This criteria belongs to

WHERE clause

OK Cancel



Exclusion of a Field Value – A6

- Search for and add the service indicator record, **SRVC_IND_DATA**
 - Select the field **EMPLID**

Records Query Expressions Prompts Fields Criteria Having View SQL Run

Query Name NIU_SR_HEUGUM_SUBQUERY5A_AFTER Description Exclude specific SI

Working on selection Subquery for AEMPLID - Empl ID

*Search By Record Name begins with SRVC_IND_D

Search Advanced Search

Search Results

| Record | Personalize | Find | View All | First | 1 of 1 | Last |
|--|-------------|-------------|----------|-------|--------|------|
| Recname | Add Record | Show Fields | | | | |
| SRVC_IND_DATA - Service Indicator Data | Add Record | Show Fields | | | | |

Save Save As New Query Preferences Properties Publish as Feed New Union Return To Search

Records Query Expressions Prompts Fields Criteria Having View SQL Run

Query Name NIU_SR_HEUGUM_SUBQUERY5A_AFTER Description Exclude specific SI

Working on selection Subquery for AEMPLID - Empl ID

View field properties, or use field as criteria in query statement.

| Col | Record.Fieldname | Format | Ord | XLAT | Agg | Heading Text | Add Criteria | Edit | Delete |
|-----|-------------------|--------|-----|------|-----|--------------|--------------|------|--------|
| 1 | EEMPLID - Empl ID | Char11 | | | | ID | | Edit | |

Save Save As New Query Preferences Properties Publish as Feed New Union Return To Search



Exclusion of a Field Value – A7

- Add criteria
 - SRVC_IND_CD = ISB

Records Query Expressions Prompts Fields **Criteria** Having View SQL Run

Query Name NIU_SR_HEUGUM_SUBQUERY5A_AFTER Description Exclude specific SI Feed

Working on selection Subquery for AEMPLID - Empl ID Subquery/Union Navigation

Add Criteria Group Criteria

| Logical | Expression1 | Condition Type | Expression 2 | Edit | Delete |
|---------|--------------------------------------|----------------|--------------|------|--------|
| | E.SRVC_IND_CD - Service Indicator Cd | equal to | ISB | Edit | |

Save Save As New Query Preferences Properties Publish as Feed New Union Return To Search



Exclusion of a Field Value – A8

- Return to the top level of the query and run
– Compare results

[In Query](#) | [Download to Excel](#) | [Download to XML](#) First 1-100 of 693 Last

| ID | Acad Prog | Milestone | ISB SI |
|----------|-----------|-----------|--------|
| AAL37605 | GHHS | 2707 | ISB |
| AAM38884 | EDU | 2050 | ISB |
| ABG31650 | GEDU | | |
| ACA29946 | GEDU | 2701 | |
| ACM68021 | HHS | 5003 | ISB |
| ADL98739 | EDU | | ISB |
| AE 87591 | EDU | | ISB |
| AEE47518 | EDU | 2035 | ISB |
| AJJ38898 | EDU | 2082 | ISB |
| AJL92493 | GEDU | 2702 | ISB |
| AKA28276 | EDU | 2035 | ISB |
| AKE61869 | EDU | | |
| AKM94811 | GEDU | | |
| AKS44156 | EDU | | ISB |
| AMH83077 | EDU | 2050 | ISB |
| AMJ21369 | LAS | 4080 | ISB |
| AMR53818 | LAS | 4040 | ISB |
| AO 26853 | GEDU | | |
| ASA26094 | EDU | | |
| ASL21344 | GEDU | 2705 | |
| ASL53829 | EDU | | ISB |
| BAK84852 | EDU | 2015 | ISB |
| BAL99754 | EDU | | ISB |
| BAM93723 | GEDU | 2703 | ISB |
| BAN58581 | EDU | | ISB |
| BBA18144 | GHHS | 2707 | ISB |
| BBA40168 | LAS | 4090 | ISB |

[In Query](#) | [Download to Excel](#) | [Download to XML](#) First 1-100 of 287 Last

| ID | Acad Prog | Milestone |
|----------|-----------|-----------|
| ABG31650 | GEDU | |
| ACA29946 | GEDU | 2701 |
| AKE61869 | EDU | |
| AKM94811 | GEDU | |
| AO 26853 | GEDU | |
| ASA26094 | EDU | |
| ASL21344 | GEDU | 2705 |
| BEJ28150 | EDU | |
| BBL44774 | LAS | 4090 |
| BBR26409 | GEDU | |
| BBS35636 | GEDU | |
| BCL99764 | GEDU | |
| BCM69530 | GEDU | |
| BCN61365 | GEDU | |
| BDR61912 | LAS | 4081 |
| BEA96030 | GEDU | |
| BEM61943 | EDU | |
| BGM55658 | GEDU | |
| BH 90294 | GEDU | |



Exclusion of a Field Value – A9

- **Conclusion**

- The subquery is selecting all students who have the ISB service indicator
- The top-level criteria, ‘EMPLID not in list’ of the subquery, then *excludes* those students who *do* have the ISB service indicator



Exclusion of a Field Value – B1

- **Scenario**

- The REACH program wants to ‘reach’ out to undergraduate students who do not already have some sort of support system available
 - This would mean excluding students in specific organizations, assigned to student groups
 - CHANCE
 - Honors
 - Athletics



Exclusion of a Field Value – B2

- A query is built to list currently enrolled Freshmen
 - Expressions are written to identify the three student group categories of Honors, CHANCE, and Athlete

Records Query Expressions Prompts Fields Criteria Having View SQL Run

Query Name NIU_SR_HEUGUM_SUBQUERY5B_BEFOR Description Exclude Stdnts in Stdnt Grps

Click folder next to record to show fields. Check fields to add to query. Uncheck fields to remove from query. Add additional records by clicking the records tab. When finished click the fields tab.

Chosen Records

| Alias | Record | |
|--------------------------|--------|---|
| <input type="checkbox"/> | A | STDNT_CAR_TERM - Student Career Term Table Hierarchy Join |
| <input type="checkbox"/> | B | STDNT_GRPES_HIST - Student Groups History left outer joined with A Hierarchy Join |
| <input type="checkbox"/> | C | SCC_NAMES_QVW - Person Names Query View Hierarchy Join |

[Expand All Records](#) [Collapse All Records](#)

[Save](#) [Save As](#) [New Query](#) [Preferences](#) [Properties](#) [Publish as Feed](#) [New Union](#)

Records Query Expressions Prompts Fields Criteria Having View SQL Run

Query Name NIU_SR_HEUGUM_SUBQUERY5B_BEFOR Description Exclude Stdnts in Stdnt Grps [Feed](#)

View field properties, or use field as criteria in query statement. [Reorder / Sort](#)

| Col | Record.Fieldname | Format | Ord | XLAT | Agg | Heading Text | Add Criteria | Edit | Delete |
|-----|--|--------|-----|------|-----|--------------|--------------------------|----------------------|--------------------------|
| 1 | substr(C.LAST_NAME,1,1) substr(C.FIRST_NAME,1,1) substr(C.MIDDLE_NAME,1,1) substr(A.EMPLID, | Char8 | 1 | | | ID | <input type="checkbox"/> | Edit | <input type="checkbox"/> |
| 2 | case when B.STDNT_GROUP = '21' and B.EFF_STATUS = 'A' then 'Chance' end | Char6 | | | | Max Chance | <input type="checkbox"/> | Edit | <input type="checkbox"/> |
| 3 | case when B.STDNT_GROUP in('20', '200R', '20R') and B.EFF_STATUS = 'A' then 'Honors' end | Char6 | | | | Max Honors | <input type="checkbox"/> | Edit | <input type="checkbox"/> |
| 4 | case when B.STDNT_GROUP in ('01','02M','02W','03','04','05M','05W','06','07M','07W','08','09M','09W | Char7 | | | | Max Athlete | <input type="checkbox"/> | Edit | <input type="checkbox"/> |

[Save](#) [Save As](#) [New Query](#) [Preferences](#) [Properties](#) [Publish as Feed](#) [New Union](#) [Return To Search](#)

- The data would be exported, sorted and rows with any of those student groups would be deleted



Exclusion of a Field Value – B3

- Query Results

| | | | |
|----------|--------|--------|---------|
| AA 85229 | Chance | | |
| AAA27856 | | | |
| AAA90806 | Chance | | |
| AAB85760 | | | |
| AAD65972 | | | |
| AAD86156 | Chance | | |
| AAH71618 | | | |
| AAJ34073 | | | |
| AAK53623 | | | |
| AAL35343 | Chance | | |
| AAL76387 | Chance | | |
| AAM64327 | | Honors | Athlete |
| AAM79611 | | | |
| AAM87026 | | | |
| AAN63196 | | | |
| AAR83921 | | | |
| AAT88197 | | | |
| AAY57327 | | | |
| ABE71325 | | | |
| ABT70294 | Chance | | |
| AC 49411 | | | |
| AC 75059 | | | Athlete |
| ACD64982 | Chance | | |
| ACJ77237 | | | |
| ACL65160 | Chance | | |
| ACS87144 | | | |
| ACT29011 | Chance | | |
| AD 82574 | | | Athlete |
| ADI68945 | | | |
| ADI75015 | Chance | | |
| ADJ62844 | | | |
| ADK36436 | Chance | | |

All rows with a value of 'Chance', Honors and/or Athlete need to be deleted



Exclusion of a Field Value – B4

- To solve the problem, a query is written selecting currently enrolled Freshmen and utilizing a subquery to exclude students 'not in list' of students in any one of the student groups

Records Query Expressions Prompts Fields Criteria Having View SQL Run

Query Name NIU_SR_HEUGUM_SUBQUERY5B_AFTER Description Exclude Stdnts in Stdnt Grps

Working on selection Top Level of Query [Subq](#)

Click folder next to record to show fields. Check fields to add to query. Uncheck fields to remove from query. Add additional records by clicking the records tab. When finished click the fields tab.

Chosen Records

| Alias | Record | Hierarchy Join |
|-------|--|--------------------------------|
| A | STDNT_CAR_TERM - Student Career Term Table | Hierarchy Join |
| B | SCC_NAMES_QVW - Person Names Query View | Hierarchy Join |

[Expand All Records](#) [Collapse All Records](#)

[Save](#) [Save As](#) [New Query](#) [Preferences](#) [Properties](#) [Publish as Feed](#) [New Union](#)

Records Query Expressions Prompts Fields Criteria Having View SQL Run

Query Name NIU_SR_HEUGUM_SUBQUERY5B_AFTER Description Exclude Stdnts in Stdnt Grps

Working on selection Top Level of Query [Subquery/Union N](#)

[Add Criteria](#) [Group Criteria](#) [Reorder Criteria](#)

| Logical | Expression1 | Condition Type | Expression 2 | Edit | Delete |
|---------|---|----------------|--------------------|----------------------|-------------------|
| | A.STRM - Term | equal to | 2128 | Edit | - |
| AND | AUNT_TAKEN_PGRSS+AUNT_A UDIT | greater than | 0 | Edit | - |
| AND | AACAD_LEVEL_BOT - Academic Level - Term Start | equal to | 10 | Edit | - |
| AND | A.EMPLID - Empl ID | equal to | B.EMPLID - Empl ID | Edit | - |
| AND | B.EFFDT - Effective Date | Eff Date <= | Current Date | Edit | - |
| AND | B.NAME_TYPE - Type of Name | equal to | PRI | Edit | - |
| AND | A.EMPLID - Empl ID | not in list | SUBQUERY | Edit | - |

[Save](#) [Save As](#) [New Query](#) [Preferences](#) [Properties](#) [Publish as Feed](#) [New Union](#) [Return](#)



Exclusion of a Field Value – B5

- Search for and add the student groups record, **STDNT_GRP_S_HIST**
 - The ‘HIST’ record allows only *Active* student groups to be selected

Records Query Expressions Prompts Fields Criteria Having View SQL Run

Query Name NIU_SR_HEUGUM_SUBQUERY5B_AFTER Description Exclude Stdnts in Stdnt Grps

Working on selection Subquery for A.EMPLID - Empl ID [Subqu](#)

Add additional records by clicking the records tab. When finished select a single field for this subquery and you will be transferred to the fields tab.

Chosen Records

Alias Record

C STDNT_GRP_S_HIST - Student Groups History [Hierarchy Join](#)

Fields Find | View All First 1-9 of 9 Last

| | | |
|--------|--|---|
| Select | EMPLID - Empl ID | Join PEOPLE_SRCH - People Search View |
| Select | INSTITUTION - Academic Institution | |
| Select | STDNT_GROUP - Student Group | |
| Select | EFFDT - Effective Date | |
| Select | EFF_STATUS - Status as of Effective Date | |
| Select | LASTUPDDTTM - Last Update Date/Time | |
| Select | LASTUPDOPRID - by | |
| Select | SCC_LASTUPDTYPE - Last Update Type | |
| Select | COMMENTS - Comment | |

Save Save As New Query Preferences Properties Publish as Feed New Union



Exclusion of a Field Value – B6

- **Select the field EMPLID**
 - Add the subquery criteria to select *active* students in one of the student groups

Records Query Expressions Prompts **Fields** Criteria Having View SQL Run

Query Name NIU_SR_HEUGUM_SUBQUERY5B_AFTER Description Exclude Stdnts in Stdnt Grps

Working on selection Subquery for A.EMPLID - Empl ID

View field properties, or use field as criteria in query statement.

| Col | Record.FieldName | Format | Ord | XLAT | Agg | Headina Text | Add Criteria | Edit | Delete |
|-----|--------------------|--------|-----|------|-----|--------------|--------------|------|--------|
| 1 | C.EMPLID - Empl ID | Char11 | | | | ID | | Edit | |

Save Save As New Query Preferences Properties Publish as Feed New Union Return To Search

Records Query Expressions Prompts Fields **Criteria** Having View SQL Run

Query Name NIU_SR_HEUGUM_SUBQUERY5B_AFTER Description Exclude Stdnts in Stdnt Grps

Working on selection Subquery for A.EMPLID - Empl ID

Add Criteria Group Criteria Reorder Criteria

| Logical | Expression1 | Condition Type | Expression 2 | Edit | Delete |
|---------|--|----------------|---|------|--------|
| | C.EFFDT - Effective Date | Eff Date <= | Current Date | Edit | |
| AND | C.EFF_STATUS - Status as of Effective Date | equal to | A | Edit | |
| AND | C.STDNT_GROUP - Student Group | in list | ('21','20','20R','200R','01','02M','02W','03','04','05M','05W','06','07M','07W','08','09M','09W','10','11','12','13','14ID','14OD') | Edit | |

Save Save As New Query Preferences Properties Publish as Feed New Union Return



Exclusion of a Field Value – B7

- Return to the top level of the query, run and compare results

| | | | | | |
|----------|--------|--------|---------|---------|----------|
| AA 85229 | Chance | | | | |
| AAA27856 | | | | | AAA27856 |
| AAA90806 | Chance | | | | AAB85760 |
| AAB85760 | | | | | AAD65972 |
| AAD65972 | | | | | AAH71618 |
| AAD86156 | Chance | | | | AAJ34073 |
| AAH71618 | | | | | AAK53623 |
| AAJ34073 | | | | | AAM79611 |
| AAK53623 | | | | | AAM87026 |
| AAL35343 | Chance | | | | AAN63196 |
| AAL76387 | Chance | | | | AAR83921 |
| AAM64327 | | Honors | Athlete | | AAT88197 |
| AAM79611 | | | | | AAY57327 |
| AAM87026 | | | | | ABE71325 |
| AAN63196 | | | | | AC 49411 |
| AAR83921 | | | | | ACJ77237 |
| AAT88197 | | | | | ACS87144 |
| AAY57327 | | | | | ADI68945 |
| ABE71325 | | | | | ADJ62844 |
| ABT70294 | Chance | | | | |
| AC 49411 | | | | | |
| AC 75059 | | | | Athlete | |
| ACD64982 | Chance | | | | |
| ACJ77237 | | | | | |
| ACL65160 | Chance | | | | |
| ACS87144 | | | | | |
| ACT29011 | Chance | | | | |
| AD 82574 | | | | Athlete | |
| ADI68945 | | | | | |
| ADI75015 | Chance | | | | |
| ADJ62844 | | | | | |
| ADK36436 | Chance | | | | |



Exclusion of a Field Value – B8

- **Conclusion-similar to the previous example:**
 - The subquery is selecting all students who are in one (or more) of the identified student groups
 - The top-level criteria, ‘EMPLID not in list’ of the subquery, then *excludes* those students who *are* in one (or more) of the identified student groups



PeopleSoft Query - Subqueries

- One very important tip...



PeopleSoft Query - Subqueries

- **SAVE OFTEN!!!!**



PeopleSoft Query - Subqueries

- Thank you for attending!
- Presenter:
 - Deirdre Young
 - IT Technical Associate-
PeopleSoft Analyst
 - Registration & Records
 - Northern Illinois University
 - dyoung@niu.edu



The Young girls at
Devil's Lake State
Park

