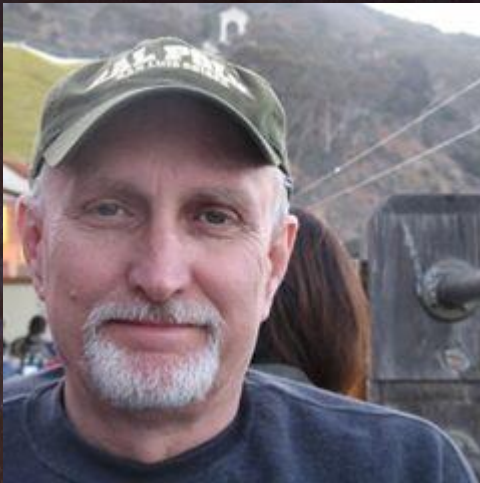




#270 – Advanced Query



Terry Scott | Aeries Trainer
March 2024

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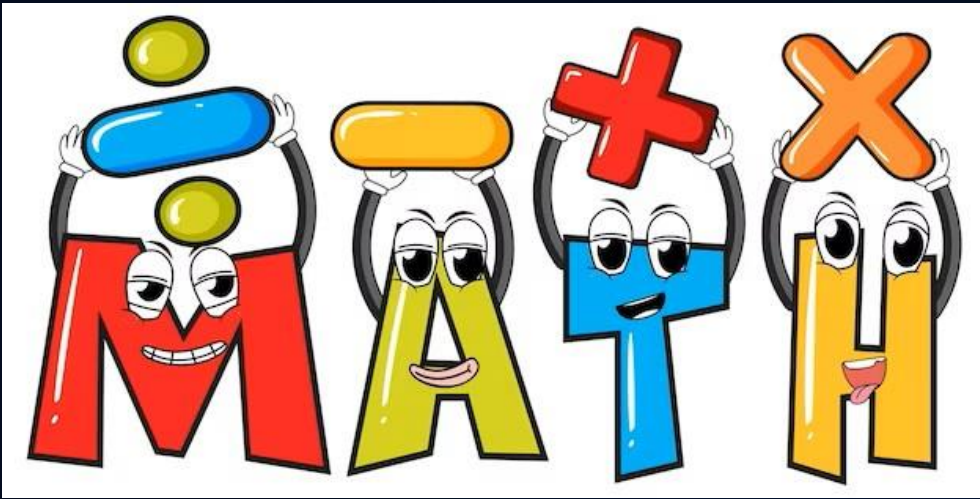
Tips for Building Complex Queries:

- **Get a clear picture of what data is needed and the order that it should be sorted. If this data is a request, getting it in writing can be helpful.**
- **Identify the tables needed.**
- **Identify the school (if needed)**
- **Contemplate whether the query will be easier preceded with a KEEP or SKIP statement.**



Tips for Building Complex Queries:

- **What is the most logical order in which to place the fields?**
- **How should the data be sorted?**
- **Do I want to pass the data on to another application?**
- **Do I need to teach someone else how to do this query? Share the load and make life easier for yourself and more rewarding for others.**



Math - Concatenating Fields in a Query

Justin Thyme, Aeries and Network administrator, needs to create a list of student network login usernames based on first initial, last name, last 4 digits of the perm id number. This will be a file that will be used to create Windows Active Directory accounts at the start of a school year for students using a 3rd party software.

Tables and Fields Needed:	STU.LN STU.FN STU.ID
Sorted?	No
Conditional or filter?	No
Extracted to 3rd party?	Yes - first to Excel, then as CSV
Printed?	No



```
LIST STU LN FN ID
```

```
(( LEFT(FN,1)
```

```
+ LN
```

```
+ RIGHT(ID,4) ))
```



Filter or Conditional (IF) statements in a Query

Dinah Mite, Vice Principal, has been asked for a printed list of all students who have Student Flags, grouped by each student.

Tables and Fields Needed:	STU.NM STU.GR STU.ID	FLG.TC-table code FLG.CO-comments
Sorted?	STU.NM, ascending	
Conditional or filter?	FLG.TC # ""	
Extracted to 3rd party?	No	
Printed?	Yes, page break on STU.NM	



```
LIST STU FLG
STU.NM STU.GR STU.ID
FLG.TC FLG.CO
BY STU.NM
IF FLG.TC # ""
```



NULL

Using NULL in a Query

Anita Room, Special Education Director, wants a list of all students who have an Active Special Education record along with their teacher name.



Tables and Fields Needed:	STU.NM STU.GR STU.ID TCH.TE-teacher	CSE.DI-disability CSE.ED-enter date CSE.XD-exit date
Sorted?	STU.NM, ascending	
Conditional ?	CSE.DI > 0 CSE.ED # NULL CSE.XD = NULL	
Extracted to 3rd party?	No	
Printed?	No	

```
LIST STU IDN CSE TCH  
STU.SC STU.ID STU.NM STU.GR  
TCH.TE  
CSE.DI CSE.ED CSE.XD  
IF CSE.DI > 0  
AND CSE.ED # NULL  
AND CSE.XD = NULL
```





Dates in a Query

Bennie Factor, the district Language Assessment Coordinator, needs a list of all those students who have taken the CELDT test since July 1, 2017 as well as their overall score, the proficiency level, the raw score and the scale score.

Tables and Fields Needed:	STU.NM STU.GR STU.ID (proficiency) TST.ID-test ID TST.PT-test part TST.OT-other TST.RS-raw score TST.SS-scale score TST.DT-test date
Sorted?	STU.NM, ascending
Conditional ?	TST.ID = "CELDT" TST.PT = 0 TST.TD > 07/01/2017
Extracted to 3rd party?	No
Printed?	No

```
LIST STU TST  
STU.NM STU.GR STU.ID  
TST.ID TST.PT TST.OT TST.RS TST.SS TST.TD  
IF TST.ID = "CELDT"  
AND TST.PT = 0  
AND TST.TD > 07/01/2017
```





Sorting - Ascending and Descending

Sandy Beech, Assistant Superintendent, wants a list of all students who has an Assertive Discipline (ADS) record, sorted by 6th graders first and grouped by Gender.

Tables and Fields Needed:	STU.NM code STU.GR STU.ID STU.GN	ADS.CD-discipline DSP.CD-disposition
Sorted?	STU.GR, descending STU.GN, ascending	
Conditional ?	ADS.CD # “ “	
Extracted to 3rd party?	No	
Printed?	No	



```
LIST STU ADS DSP  
STU.SN STU.NM STU.GR STU.GN  
ADS.CD ADS.CD?  
DSP.DS?  
BY STU.GR ^ STU.GN  
IF ADS.CD # " "
```



Change Command

Hedda Hare, Testing Coordinator, needs a query for pre-ID that will populate all students Testing Group Name (SSD.TGN) to be the same as their Teacher Name.

Tables and Fields Needed:	STU SSD SSD.TGN-testing group name STU.CU-teacher name
Sorted?	No
Conditional ?	No
Extracted to 3rd party?	No
Printed?	No



***** Maybe do this on a Sandbox first

Preliminary query: Verify existing data

LIST STU TCH SSD

TCH.TE

SSD.TGN



CHANGE STU SSD

SSD.TGN TO TCH.TE

** Advanced - Extended Fields **

** Extended field data generated by Aeries Analytics process nightly **

```
LIST STU CSE TCH  
STU.SC STU.ID STU.NM STU.GR  
TCH.TE  
CSE.DI CSE.ED CSE.XD SPECIALED  
IF SPECIALED = YES
```


Extended Fields Examples

TOTAL STU 504_PLAN BY 504_PLAN













SKIP STU IF SPECIALED = "YES"

LIST STU ID NM GR SBAC_ELA IF SBAC_ELA < 4

LIST STU ID LN FN GR PRIMARYTEACHERID
PRIMARYTEACHERNAME PRIMARYCOURSEID

Extended Fields Config

- Analytics LCAP generated fields (free)
- Analytics Local (Non-LCAP) generated fields (with purchase of Analytics)

Update Extended Query Column Titles					
Analysis Items					
	Query Column Title	Title	Short Title	System	Item Type
					
		Fitness Test Status Gr 9: Abdominal Strength	PFT9 AbStr	NON-LCAP	Field Value
		ADS - Total Violations	ADS1	NON-LCAP	ADS Violation Count
		ADS - Days of Suspension	ADS2	NON-LCAP	Disposition Days
		SBAC ELA Most Recent	SBAC ELA	NON-LCAP	TST
		SBAC Math Most Recent	SBAC Math	NON-LCAP	TST
		SBAC Reading Claim	SB Reading	NON-LCAP	CST
		SBAC Writing Claim	SB Writing	NON-LCAP	CST
		SBAC Listening Claim	SB Listen	NON-LCAP	CST
		SBAC Research Claim	SB Resrch	NON-LCAP	CST
		SBAC Concepts Claim	SB Concept	NON-LCAP	CST
		SBAC Problem Solving	SB ProbSiv	NON-LCAP	CST

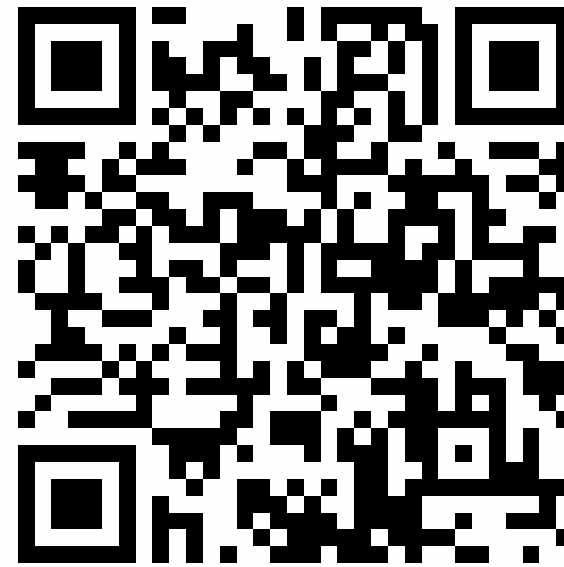
KEY TAKEAWAYS

- Concatenation - adding fields together
- Using the Database Definitions page
- Using Dates in a query
- Multi-level sorting in a query
- Using the Change command
- Using Extended Fields in a query

THANK YOU



Share your Feedback:



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