## GIS 150 Joseph Guillaume

## Chapter 9 Joining and relating tables 9A



The left dialogue box came from right clicking the layer in the table of contents. Since I right clicked on the Pits\_75 layer I chose Remedial\_actions in number two drop down menu. Drop box one and three should match.

If you notice below there are some <NULL> that is due to the fact that the value from were that data came from was empty.

Remedial_actions.CLNUP_HAZ	Remedial_actions.CLEANUP
None	Operator needs to submit plan to LADNR for clean-up procedure for approval.
None	Operator needs to submit plan to LADNR for clean-up procedure for approval.
None	Operator needs to submit plan to LADNR for clean-up procedure for approval.
None	Operator needs to submit plan to LADNR for clean-up procedure for approval.
<null></null>	<nul></nul>
Non	Operator needs to submit plan to LADNR for clean-up procedure for approval.
Nor	Open procedure for approval.
Nor	Oper princeds to submit plan to LADNR for clean-up procedure for approval.
None	Operator needs to submit plan to LADNR for clean-up procedure for approval.
None	Operator needs to submit plan to LADNR for clean-up procedure for approval.
<null></null>	<null></null>
Nope	M_itor Site.
	In a submit plan to LADNR for clean-up procedure for approval.

## Layer Properties

On the Pit\_75, the layer properties was chosen and then the Value Field was changed to REMEDIALactions.CLEANUP. Added all values

General Source Select	ion Displa	ay Symbology Fields D	efinition Query   Labels   Joi	ns & Relates				
Show:	Draw ca	ategories using unique v	alues of one field.	Impoi				
Categories	Value Fi	eld	Color Ramp					
Unique values Unique values, many I	Remedi	Remedial_actions.CLEANUP						
Match to symbols in a	Symbol	Value	Label	Count				
Charts	•	<all other="" values=""></all>	<all other="" values=""></all>	0				
Multiple Attributes	•	<null></null>	<null></null>	134				
		Monitor Site. None	Monitor Site. None	17 1				
< >	•	Operator needs to submit pl	a Operator needs to submit p	la 193				
	• •	Repair or removal of structur Repair or removal of structur 251     Vacuum and remove to pern Vacuum and remove to pern 10						
7			1	_				
1 Jul	Add All V	alues Add Values	Remove A	Advanced				

By right clicking on the Symbol column the symbol size can be changed along with its shape and color. In this case we use the color ramp which will give us the best contrasting colors.

_			12.4									
L	ayer Properties							?				
	General Source Select	ion   Displa	ay Symbology	Fields   D	efinition Query	Labels Join	s & Relates					
	Show:	Draw ca	Draw categories using upique values of one field									
	Features			gq								
	Categories	Value Fie	eld		Color	Ramp						
	<ul> <li>Unique values</li> </ul>	Remedi	al_actions.CLEAI	NUP	-							
	- Unique values, many I	· · · · ·						·······				
	Match to symbols in a	Symbol	Value		Label		Count	_				
	Quantities							_				
	Charts		<all other="" th="" value<=""><th>s&gt;</th><th>≺all other valu</th><th>ues&gt;</th><th>0</th><th></th></all>	s>	≺all other valu	ues>	0					
	Multiple Attributes		<heading></heading>		Remedial_a	606						
			<null></null>		<null></null>		134	1				
			Monitor Site.		Monitor Site.		17					
			None		None		1					
		Operator needs to submit pla Operator needs to submit pla 193										
	227	Repair or removal of structur Repair or removal of structur 251										
		Add All V	alues Add V	alues	Remove	Remove All	Advaj	nced				

Below is the visual results that represent the various wells data.



i Identify			? 🛛	
Identify from: <top-m< td=""><td>ost layer&gt;</td><td></td><td>•</td><td>38_p_4375</td></top-m<>	ost layer>		•	38_p_4375
⊡- Pits_75	Location:	-89.626097 29.460765 Decimal Degrees	Th	e 🖍 ok asked to look at
	Field	Value	the	<u>behind</u> this
	FID	215		ti lan uusil ag it ig in
	Shape	Point	par	ti ar well as it is in
	IDNUMBER	38_p_4375	the	h far zona
	PIT_TYPE	PIT	uit	u lei zuile.
	STATUS	ABANDONED/ INACTIVE		
	PARISH	PLAQUEMINES		
	CONTAINMT	LEVEE		
	CONT_COND	ADEQUATE		
	BREACHED	n		
	RANKING	80		
Identified 1 feature			10	

This is the beginning of relating two different data tables. This was done by right clicking on Pits\_75 and choosing Relate. That brings up the dialogue box on the right.

Number 1 will be changed to IDNUMBER and number 2 will be changed to Metals and number 3 will be changed to match 1 which is IDNUMBER. Then we give number 4 the name of Metal analysis.



File Edit View Insert Selection Tools Window Help

This dialogue box was reached through Selection on the menu bar. We choose Pits\_75 as the only layer to provide interactivity with.



Selected Attributes of Pits_75	~			<b>#</b>	Fin <u>d</u> & Replace					
FID Shape * IDNUMBER PIT_TYPE	STATUS	PARISH	CONTAINMT		Select By Attributes					
215 Point 38_p_4375 PIT	:2	Clear Selection								
Staying with the Pits_75 layer (			Select <u>A</u> ll							
well 38_p_4375 already selected	well 38_p_4375 already selected), we use									
"selected" at the bottom so it or	nly shows us				<u>T</u> urn All Fields On					
what is selected and then click of	on options.				Restore Default Column Widths					
From there Related Tables and t	hen click on	Metal analysis : Metals			Related <u>T</u> ables					
Metal analysis.				都	Create <u>G</u> raph					
					A 44 T-61- 6- 1					

	Below	are the	4 metals	that	showed	up	when	38	р	4375	was	selected	l.
--	-------	---------	----------	------	--------	----	------	----	---	------	-----	----------	----

v	v 🖩 Selected Attributes of Metals													
		OID	IDNUMBER	SAMPID	ANALYSISID	CREWID	METAL	SAMP_TYPE	CONC_NU	CONC_SOIL	CONC_WATE	_		
II		102	38_p_4375	1	38_p_4375/1	A-39	Ba	s	361.7	361.7	0			
		103	38_p_4375	1	38_p_4375/1	A-39	Zn	s	63.8	63.8	0			
t,		104	38_p_4375	2	38_p_4375/2	A-40	Ba	s	232.6	232.6	0			
		105	38_p_4375	2	38_p_4375/2	A-40	Zn	s	62.8	62.8	0			

ы в	, 	Select	ed	Attri	bute	s of Pits_	75	2			/	"	<u> </u>	111261	/////**	
эt	F	<b>FID</b> 216	SH Poir	nape * nt	<b>IC</b> 38	NUMBER _p_4565	PIT	_TYPE	STATU: ABANDONED/IN	S Nactive	PARISH PLAQUEMINES	CONT	AINMT CON	I <mark>T_CON</mark> QUATE	BREACHED	BANKING 80
şiç				Sele	cted	Attribute	es of Meta	als								
is				01D 106 107	ID 38 7 38	NUMBER _p_4565 _p_4565	SAMPID 1 1	ANALYSISI 38_p_4565/1 38_p_4565/1	D CREWID B-20 B-20	<b>METAL</b> Ba Zn	SAMP_TYPE	CONC_NU 712.9 92.1	CONC_SOIL 712.9 92.1	CONC_	<b>WATE</b> 0 0	

Selecting well 38\_p\_4565 we find that it has two different metal containments.

Select by A	Attributes	?×							
Enter a WH	ERE clause to select records in the table window.								
Method :	Create a new selection	-							
"OID" "IDNUMBE "SAMPID" "ANALYSIS "CREWID" "METAL"	ER" '' SID"	×							
= <	> Like 'Ag'								
$\rightarrow$ $\rightarrow$	= And 'Cr'								
< <	< <= Or Zn'								
_ % (	() Not								
ls	Get Unique Values Go To:								
SELECT * F	ROM Metals WHERE:								
"METAL" =	• 'Pb'	~							
Clear	Verify Help Load S	ave							
	Apply	llose							

We can narrow that selection down by using Select by Attributes. Here we use the data from "METAL" and match it to Pb.

Below you can see the results of the selection showing 3 well sites that have the metal contaminate Pb, as well as other pertinent data.

<b></b>	Select	ted /	Attrib	utes of Pits_	75									
Π	FID	Sh	ape *	IDNUMBER	PIT	_TYPE	STATU	S	PARISH	CONT	AINMT	ONT_CON	BREACHED	RANKING
	216	Point		38_p_4565	PIT		ABANDONED/ IN	VACTIVE	PLAQUEMINES	LEVEE	Al	DEQUATE	n	80
		III Selected Attributes of Metals												
			OID	IDNUMBER	SAMPID	ANALYSISI	D CREWID	METAL	SAMP_TYPE	CONC_NU	CONC_S	DIL CONC_	WATE	
			20	23_w_15134	1	23_w_15134/1	(C-6)	РЬ	s	752.5	75	52.5	0	
			32	29_p_158	1	29_p_158/1	29P158	РЬ	s	350		350	0	
			115	50_w_26291	1	50_w_26291/1	(D-6)	Pb	s	1225	1	225	0	



Above we used Selection on the menu bar to find *"zoom by selected features"*. As you can see they map expands so that you are able to see the 3 wells (light blue) that have been selected.