



All Errors Rollup

Q =



All Errors:  
- Record 1: Choice #2

Incl.	Completion	Rank
<input checked="" type="checkbox"/>		
Sub C		
Record 2		
Sub D		
Sub E	4	
Sub F		
Sub G		
Sub H		
Record 3		
Record 4		
Sub K	99+	
Sub L		
Sub M		
Record 5		
Sub N	10	
Sub O		
Sub P		
Sub Q		
Sub R		
Sub S		
Sub E		
Sub Z		
Sub A S		
Sub J		
Sub C		
Sub B N		
Sub C C		
Sub B		8
Sub B L		
Sub P		
Sub T		
Sub F		
Sub N		
Sub D		
Sub H		
Sub B I		
Sub A T		
Sub G		
Sub I		
Sub A		
Sub L		
Sub A H		

1 2 3

Record 1  
L Sub B

= Subrecord ID: Sub B R

Color: Blue

Shape: Circle

Choice #1

Choice #2



Out of Bounds Name Example

Q =		
Rank	Inc.	Completion
Record 1 Sub A		
Sub B... (8+)	<input checked="" type="checkbox"/>	
Sub BXYZ		
Record 2 Sub D Sub E Sub F Sub G Sub H	<input type="checkbox"/>	
Record 3 Record 4 Sub K Sub L Sub M	<input type="checkbox"/>	
Record 5 Sub N Sub O Sub P Sub Q Sub R Sub S	<input type="checkbox"/>	
		1123

Record 1 Sub BXYZ	
Subrecord ID: Sub BXYZ Color: Blue Shape: Circle	Choice #1 Choice #2

# Top & Bottom Drop Points Option

Q =		
Rank	Inc. Completion	Drop for Include Top
Record 1		Sub E
Sub A		Sub Z
Sub B	<input checked="" type="checkbox"/>	Sub A S
Sub C		Sub J
Record 2		Sub C
Sub D		Sub B N
Sub E	<input type="checkbox"/>	Sub C C
Sub F		Sub B 8
Sub G		Sub B L
Sub H		Sub P
Record 3		Sub B T
Record 4		Sub F
Sub K	<input type="checkbox"/>	Sub N
Sub L		Sub D
Sub M		Sub H
Record 5	<input type="checkbox"/>	Sub B I
Sub N		Sub A T
Sub O		Sub C
Sub P		Drop for Include Bottom
Sub Q		Drop for Overflow Top
Sub R		Sub I
Sub S		Drop for Overflow Bottom
		Drop for Excluded Top
		Sub A H
		Drop for Excluded Bottom
		1 2 3

Record 1  
L Sub B

Subrecord ID: Sub B

Color: Blue

Shape: Circle

Choice #1

Choice #2

Full Layout

Q	
Rank	Rank
<input checked="" type="checkbox"/> Record 1 Sub A	Sub C Sub A
<input checked="" type="checkbox"/> Sub B 131 <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Sub B 3
Sub C	Sub G
<input type="checkbox"/> Record 2	Sub H
Sub D	Sub E
Sub E	Sub N
Sub F	Sub I
Sub G	Sub M
Sub H	Sub D
<input type="checkbox"/> Record 3	Sub Q
<input type="checkbox"/> Record 4	Sub L
Sub K	Sub R
Sub L	
Sub M	Sub K
<input type="checkbox"/> Record 5	Sub F
Sub N	Sub P
Sub O	Sub T
Sub P	Sub V
Sub Q	
Sub R	Sub J
Sub S	Sub O
	Sub U
	Sub S

Record 1  
Sub B

choice  
Wrong Choice ☒  
☒ Invalid  
choice  
Right Choice

Subrecord ID: Sub B  
Color: Blue  
Shape: Circle



Full Layout (Disabled Text Boxes)

Q	
Rank	Inc.
Record 1 Sub A	
Record 2 Sub B	131
Sub C	
Record 3 Sub D	
Sub E	
Sub F	
Sub G	
Sub H	
Record 4 Sub K	
Sub L	
Sub M	
Record 5 Sub N	
Sub O	
Sub P	
Sub Q	
Sub R	
Sub S	
Sub T	

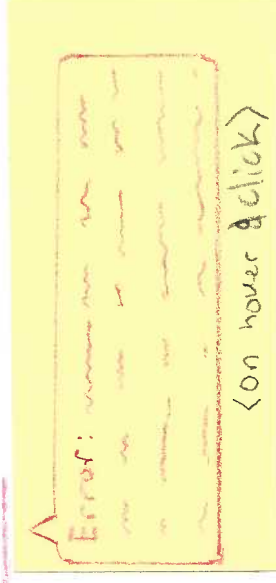
Record 1 Sub B	
Subrecord ID Sub B	
color Blue	
shape Circle	
choice Wrong Choice	choice Right Choice
Disputed	

- Invalid Field with Long Error Message

Choice

Wrong Choice! ?

① Invalid



- Text Input Format (from CDK)

Favorite food

↑ Inactive & Empty



Favorite food

Sushi

↑ Active with Entry

• Label floats up above field  
Showing cursor

Validation Option #1

Q

Record 1  
Sub A  
Sub B  
Sub C

Sub C  
Sub A  
Sub B

choice  
Wrong Choice  
Invalid  
choice  
Right Choice



Q	
<input checked="" type="checkbox"/> Record 1 Sub A <input checked="" type="checkbox"/> Sub B Sub C	Sub C Sub A <input checked="" type="checkbox"/> Sub B

Record 1 Subrecord B	<div><div><input checked="" type="checkbox"/> choice Wrong Choice</div><div><input checked="" type="checkbox"/> Invalid</div><div>choice</div><div>Right Choice</div></div>
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# Validation Option #3

	Q
<p>❗ Record 1</p> <p>Sub A</p> <p>❗ Sub B</p> <p>Sub C</p>	
	<p>Sub C</p> <p>Sub A</p> <p>❗ Sub B</p>

Record 1 Subrecord B	1
	<p>choice</p> <p><u>Wrong Choice</u> ❗</p> <p>❗ Invalid</p> <p>choice</p> <p>Right Choice</p>

Validation : Option #4 A

Q	
<div>② Record 1</div> <div>Sub A</div> <div>① Sub B</div> <div>Sub C</div>	<div>Sub C</div> <div>Sub A</div> <div>① Sub B</div>

Record 1 Sub B	
<div>Subrecord ID: Sub B</div> <div>Color: Blue</div> <div>Shape: circle</div>	<div>choice</div> <div>Wrong Choice</div> <div>③ Invalid</div> <div>choice</div> <div>Right Choice</div> <div>②</div>

Validation : Option #4 B

Q	
<div><div>Record 1</div><div>Sub C Sub A Sub B</div></div>	

Record 1

Errors:  
- Record 1: choice 2  
- Subrecord B: choice 1

Record 1 Sub B	<div><div>choice Wrong Choice</div><div>Invalid</div><div>choice Right Choice</div></div>
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Compression Icon Options

Q	
Rank	Comp Rank
<input checked="" type="checkbox"/> Record 1 Sub A	Sub G
<input checked="" type="checkbox"/> Sub B 131 <input checked="" type="checkbox"/>	Sub A
Sub C	<input checked="" type="checkbox"/> Sub B 3
<input type="checkbox"/> Record 2 Sub D	Sub G
Sub E	Sub H
Sub F	Sub E
Sub G	Sub N
Sub H	Sub I
<input type="checkbox"/> Record 3	Sub M
<input type="checkbox"/> Record 4	Sub D
Sub K	Sub Q
Sub L	Sub L
Sub M	Sub R
<input type="checkbox"/> Record 5	Sub K
Sub N	Sub F
Sub O	Sub P
Sub P	Sub T
Sub Q	Sub V
Sub R	Sub S
Sub T	Sub O
Sub	Sub U
	Sub S

Record 2 Sub B	<div>3</div>
Subrecord ID Sub B	<div>Choice</div> <div>13 Choice</div> <div>2</div>
color Blue	<div>Sub AB</div> <div>Sub AC</div> <div>Sub AD</div>
shape Circle	<div>ht Choice</div>

# Filtering Menu Example

=		q
<input type="checkbox"/> Record 1 Sub A Sub B <input type="checkbox"/> Record 2 Sub C		Sub B Sub A Sub C

Filtering Menu Example

☰

Text Filters

▼

☐ Select All

☐ Record 1

☐ Sub A

☐ Sub B

☐ Record 2

☐ Sub C

CANCEL ACCEPT

☐

Sub B

Sub A

Sub C

BASIC

Multi-select Behavior: 2 Items

0

Rank Inc.	Rank
Record 1	Sub AA
Sub AA	Sub D
Sub AB	Sub E
Sub AC	Sub F
Sub AD	Sub J
Sub AE	Sub K
Record 2	Sub L
Sub BA	Sub M
Sub BB	Sub N
Sub BC	Sub O
Sub BD	Sub P
Sub BE	Sub Z
Record 3	Sub AC
Sub CA	Sub G
Sub CB	Sub H
Sub CC	Sub I
Record 4	Sub Q
Record 5	Sub R
Record 6	Sub S
Sub A	Sub T
Sub B	Sub U
Sub C	Sub V
	Sub W

- Line break is at 50%
- Equal number of items above and below line break
- Selected items are at the top of each section

1-50%



# Basic Multi-Select Behavior: 3 Items

Q		
Bank Inc.	Rank	
<input type="checkbox"/> Record 1		Sub AA
Sub AA ↓↑ <input checked="" type="checkbox"/>	1	Sub D
Sub AB		Sub E
Sub AC ↓50↑ <input checked="" type="checkbox"/>		Sub E
Sub AD		Sub J
Sub AE		Sub K
<input type="checkbox"/> Record 2		Sub L
Sub BA		Sub ZA ...
Sub BB ↓100↑ <input checked="" type="checkbox"/>		Sub AC 50
Sub BC		Sub G
Sub BD		Sub H
Sub BE		Sub I
<input type="checkbox"/> Record 3		Sub Q
Sub CA		Sub R
Sub CB		Sub C
Sub CC		Sub ZB ...
<input type="checkbox"/> Record 4		Sub BB 100
<input type="checkbox"/> Record 5		Sub ZC
<input type="checkbox"/> Record 6		Sub ZD
Sub A		Sub ZE
Sub B		Sub ZF
Sub C		Sub ZG

-33%

-66%

Q		
Rank Inc.	Rank	
Record 1	1	Sub AA
Sub AA ↓↑ <input checked="" type="checkbox"/>		Sub D
Sub AB		Sub E
Sub AC ↓50↑ <input checked="" type="checkbox"/>		Sub F
Sub AD		Sub G
Sub AE		Sub H
Record 2	50	Sub I
Sub BA		Sub J
Sub BB ↓100↑ <input checked="" type="checkbox"/>		Sub K
Sub BC		Sub L
Sub BD		Sub M
Sub BE		Sub N
Record 3	75	Sub O
Sub CA		Sub P
Sub CB		Sub Q
Sub CC ↓75↑ <input checked="" type="checkbox"/>		Sub R
Record 4	100	Sub S
Record 5		Sub T
Record 6		Sub U
Sub A		Sub V
Sub B		Sub W
Sub C		Sub X

-25%

-50%

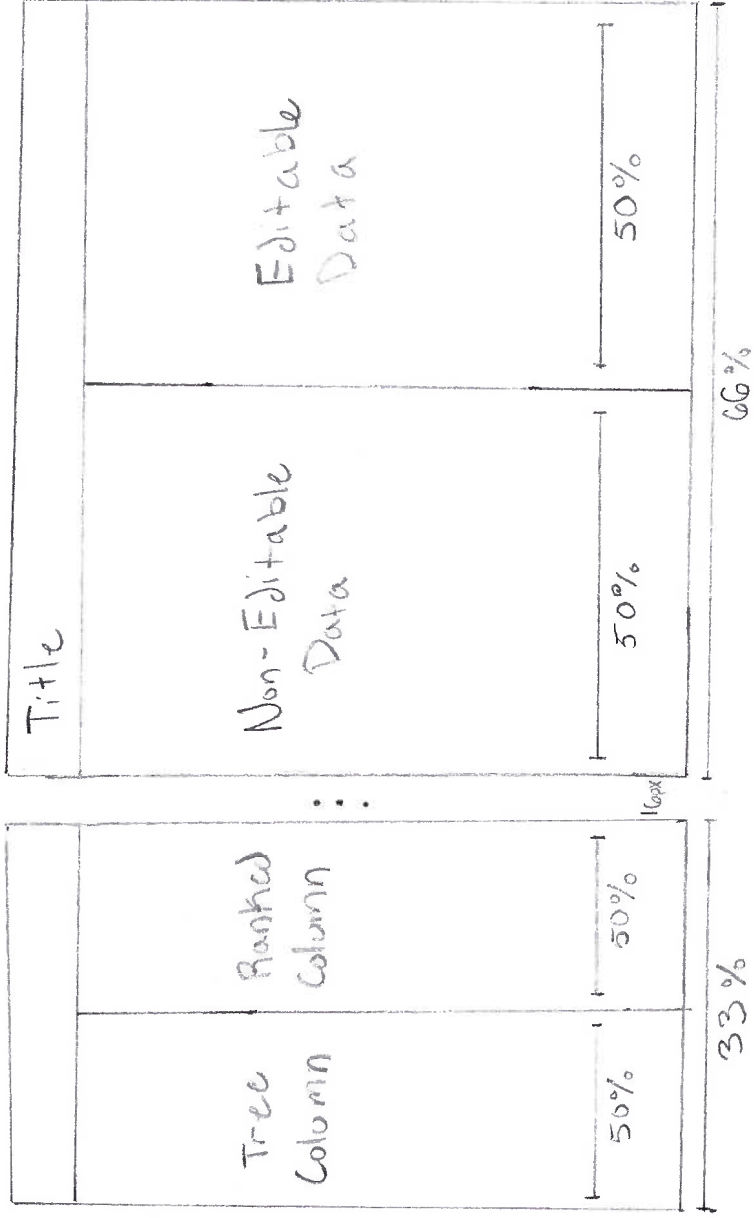
-75%

Basic Multi-Select Behavior: 5 + Items

Q		
	Bank Inc.	Bank
<input type="checkbox"/> Record 1		
Sub AA	↑ 1↑ <input checked="" type="checkbox"/>	Sub AA 1
Sub AB		Sub BC 25
Sub AC	↓ 50↑ <input checked="" type="checkbox"/>	Sub AC 50
Sub AD		Sub CC 75
Sub AE		Sub BB 100
<input type="checkbox"/> Record 2		
Sub BA		
Sub BB	↓ 100↑ <input checked="" type="checkbox"/>	
Sub BC	↓ 25↑ <input checked="" type="checkbox"/>	
Sub BD		
Sub BE		
<input type="checkbox"/> Record 3		
Sub CA		
Sub CB		
Sub CC	↓ 75↑ <input checked="" type="checkbox"/>	
<input type="checkbox"/> Record 4		
<input type="checkbox"/> Record 5		
<input type="checkbox"/> Record 6		
Sub A		
Sub B		
Sub C		

- Upon selection of 5 or more items, all break points and other items fall away, leaving only the selected items.

# Defined Dimensions & Customizable Layout



- Users can click and drag the ":" between cards left or right to change the above card size ratios



Rank Number  
always visible.

Check box and arrows  
only appear on Mouse-  
over or Selected

a	
Rank Include	Rank
<input type="checkbox"/> Record 1	Sub D (Rec 2)
Sub A 4	Sub A (Rec 1) 4
<input checked="" type="checkbox"/> Sub B 18 ↑	Sub F (Rec 3) 5
Sub C 12	Sub M (Rec 5) 6
<input type="checkbox"/> Record 2	<del>Sub B (Rec 1) 8</del>
Sub D 1	Sub H (Rec 3) 9
Sub E 13	Sub I (Rec 3) 10
<input type="checkbox"/> Record 3	Sub J (Rec 4) 11
Sub F 5	Sub E (Rec 2) 13
Sub G 3	Sub K (Rec 5) 2
Sub H 9	Sub G (Rec 3) 3
Sub I 10 ↑	Sub L (Rec 5) 7
<input checked="" type="checkbox"/>	Sub C (Rec 1) 12
<input type="checkbox"/> Record 4	
Sub J 11	
<input type="checkbox"/> Record 5	
Sub K 2	
Sub L 7	
Sub M 6	

Both rank number  
with arrows and  
include check box  
appear on mouse over  
or selected.

Q	
Rank Include	Rank
<input type="checkbox"/> Record 1	Sub D (Rec 2)
Sub A	Sub A (Rec 1)
<del>Sub B</del> $\uparrow 8 \uparrow$ <input checked="" type="checkbox"/>	Sub F (Rec 3)
Sub C	Sub M (Rec 5)
<input type="checkbox"/> Record 2	<del>Sub B (Rec 1)</del> 8
Sub D	Sub H (Rec 3)
Sub E	Sub I (Rec 3)
<input type="checkbox"/> Record 3	Sub J (Rec 4)
Sub F	Sub E (Rec 2)
Sub G	Sub K (Rec 5)
Sub H	Sub G (Rec 3)
Sub I $\uparrow 10 \uparrow$ <input checked="" type="checkbox"/>	Sub L (Rec 5)
<input type="checkbox"/> Record 4	Sub C (Rec 1)
Sub J	
<input type="checkbox"/> Record 5	
Sub K	
Sub L	
Sub M	

Ranked List Accordion Behavior

9

<div>Record 1</div> <div>Sub X</div> <div>Sub Y</div> <div>Sub Z</div> <div>Record 2</div> <div>Sub G</div> <div>Sub I</div> <div>Sub AM</div> <div>Sub BG</div> <div>Sub K</div> <div>Sub AA</div> <div>Record 3</div> <div>Record 4</div> <div>Record 5</div> <div>Sub BD</div> <div>Sub S</div> <div>Sub AK</div> <div>Sub E</div> <div>Record 6</div> <div>Sub AB</div>	<div>Sub A</div> <div>Sub B</div> <div>Sub C</div> <div>Sub D</div> <div>Sub E</div> <div>Sub F</div> <div>Sub G</div> <div>Sub H</div> <div>Sub I</div> <div>Sub J</div> <div>Sub K</div> <div>Sub L</div> <div>Sub M</div> <div>Sub N</div> <div>Sub O</div> <div>Sub P</div> <div>Sub Q</div> <div>Sub R</div> <div>Sub AA</div> <div>Sub AB</div> <div>Sub BA</div> <div>Sub BB</div>
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Q	
Record 1	Sub S
Sub X	Sub T
Sub Y	Sub U
Sub Z	Sub V
Record 2	Sub W
Sub G	Sub X
Sub I	Sub Y
Sub AM	Sub Z
Sub BG	Sub AA
Sub K	Sub AB
Sub AA	Sub AC
Record 3	Sub AD
Record 4	Sub AE
Record 5	Sub AF
Sub BD	Sub AG
Sub J	Sub AH
Sub AK	Sub AI
Sub E	Sub AJ
Record 6	Sub AK
Sub AB	Sub AL
	Sub BA
	Sub BB



9	
Record 1	Sub Y
Sub X	Sub Z
Sub Y	
Sub Z	Sub AT
Record 2	Sub AU
Sub G	Sub AV
Sub I	Sub AW
Sub AM	Sub AX
Sub BG	Sub AY
Sub K	Sub AZ
Sub AA	
Record 3	Sub BA
Record 4	Sub BB
Record 5	Sub BC
Sub BD	Sub BD
Sub B	Sub BE
Sub AK	Sub BF
Sub E	Sub BG
Record 6	Sub BH
Sub AB	Sub BI
	Sub BJ
	Sub BK
	Sub BL

Click-and-Drag With Top & Bottom on Drop Points

Q	
<div>Record 1</div> <div>Sub X</div> <div>Sub Y</div> <div>Sub Z</div> <div>Record 2</div> <div>Sub G</div> <div>Sub I</div> <div>Sub AM</div> <div>Sub BG</div> <div>Sub K</div> <div>Sub AA</div> <div>Record 3</div> <div>Record 4</div> <div>Record 5</div> <div>Sub BD</div> <div>Sub J</div> <div>Sub AK</div> <div>Sub E</div> <div>Record 6</div> <div>Sub AB</div>	<div>Drop to Include</div> <div>Sub J</div> <div>Sub T</div> <div>Sub U</div> <div>Sub V</div> <div>Sub W</div> <div>Sub X</div> <div>Sub Y</div> <div>Sub Z</div> <div>Sub AA</div> <div>Sub AB</div> <div>Sub AC</div> <div>Sub AD</div> <div>Sub AE</div> <div>Sub AF</div> <div>Sub AG</div> <div>Sub AH</div> <div>Sub AI</div> <div>Sub AJ</div> <div>Sub AK</div> <div>Sub AL</div> <div>Sub BA</div> <div>Drop to Exclude</div>

Include Drop Point: Subrecord dropped here is included and is placed at its rank in the included section

As a Subrecord is dragged up & down, a highlighted line follows along showing where in the list order it will be dropped. When dropped this way, its rank (and the rank of subs below/above it) will change along with a possible include/exclude change.

When Subrecord is picked up, original placement is grayed out  
Exclude Drop Point: Subrecord dropped here is excluded and placed in the exclude section at same rank

## Scrolling/Drop-Point Option

Q	Include	Sub A
Sub X		Sub B
Sub Y		Sub C
Sub Z		Sub D
Record 2		Sub E
Sub G		Sub F
Sub I		Sub G
Sub AM		Sub H
Sub BG		Sub I
Sub K	Out of Bounds	Sub J
Sub AA		Sub K
Record 3		Sub L
Record 4		Sub M
Record 5		Sub N
Sub BD		Sub O
Sub J		Sub P
Sub AK		Sub Q
Sub E		Sub R
Record 6		Sub S
Sub AB		Sub T

- "Include/Out of Bounds/Exclude" tabs can be used as drop points for click-and-drag functionality. These also show the user what section is currently taking up most of the viewing area. The coloring/highlight will change as a user scrolls.



Q		
<input type="checkbox"/> Record 1 Sub X Sub Y Sub Z <input type="checkbox"/> Record 2 Sub G Sub I Sub AM Sub BG Sub K Sub AA <input type="checkbox"/> Record 3 <input type="checkbox"/> Record 4 <input type="checkbox"/> Record 5 Sub BD Sub J Sub AK Sub E <input type="checkbox"/> Record 6 Sub AB	Include	Sub X Sub Y Sub Z Sub AA Sub AB Sub AC Sub AD Sub AE Sub AF Sub AG Sub AH Sub AI Sub AS Sub AK Sub AL Sub AM Sub AN Sub AO Sub AP
	Out of Bounds	
	Exclude	



Q

<input type="checkbox"/> Record 1 Sub X Sub Y Sub Z	Include	Sub AX Sub AY Sub AZ
<input type="checkbox"/> Record 2 Sub G Sub I Sub AM Sub BG		Sub BA Sub BB Sub BC Sub BD Sub BE Sub BF Sub BG Sub BH Sub BI Sub BJ Sub BK Sub BL Sub BM Sub BN Sub BO Sub BP
<input type="checkbox"/> Record 3 Sub AA <input type="checkbox"/> Record 4 <input type="checkbox"/> Record 5 Sub BD Sub J Sub AK Sub E		
<input type="checkbox"/> Record 6 Sub AB	Out of Bounds	
	Exclude	