

There may be a need to link data between worksheets of Excel. In this example, three tables of data, each on a separate worksheet, are required to be placed all on one new worksheet. The original tables may still require updates, and by linking the data, when one table's data is updated, the corresponding new worksheet's data would also receive the update.

The workbook with worksheets looks like this:

Worksheet Table 1...

	Sheets	Charts	SmartArt Graphics	WordArt
	A	B	C	D
1				
2				
3	Linking Between Worksheets - ITS Training Services			
4				
5				
6	Table 1			
7	1	7	13	15
8	2	8	14	16
9	3	9	15	17
10	4	10	16	18
11	5	11	17	19
12	6	12	18	20
13				

Worksheet Table 2...

	Sheets	Charts	SmartArt Graphics	WordArt
	A	B	C	D
2	Table 2			
3	10	80	150	220
4	20	90	160	230
5	30	100	170	240
6	40	110	180	250
7	50	120	190	260
8	60	130	200	270
9	70	140	210	280
10				
11				
12				
13				
14				

Worksheet Table 3...

	Sheets	Charts	SmartArt Graphics	WordArt
	A	B	C	D
1	Table 3			
2	2	16	30	44
3	4	18	32	46
4	6	20	34	48
5	8	22	36	50
6	10	24	38	52
7	12	26	40	54
8	14	28	42	56
9				
10				
11				

Steps to creating the three tables on the worksheet labeled *all tables*:

1. Create a new worksheet and label it as *all tables*
2. Select a cell on that page (in our example, we used B3)
3. Inside that cell, type “=”
4. WITHOUT selecting anything else on that page, click on the **tab** of worksheet table 1, and **select** the A2 cell, then **hit the enter or return key** on your keyboard.
5. The value which sits in cell A2 of the table 1 worksheet will be entered into the cell B3 of the all tables worksheet.
6. You may now autofil to the right (release mouse button), then autofil down to complete the values in the table.
7. Repeat the steps for the 2nd and 3rd table.
8. The completed NEW table on the all table worksheet now contains all values from the previous worksheets. If you change a value on any of the existing tables of table1 , table 2, or table 3, the all tables data will update. See the resulting table on the worksheet entitled *all tables*:

Worksheet all tables...

	A	B	C	D	E
1					
2		All tables together			
3		1	7	13	15
4		2	8	14	16
5		3	9	15	17
6		4	10	16	18
7		5	11	17	19
8		6	12	18	20
9		10	80	150	220
10		20	90	160	230
11		30	100	170	240
12		40	110	180	250
13		50	120	190	260
14		60	130	200	270
15		70	140	210	280
16		16	30	44	58
17		18	32	46	60
18		20	34	48	62
19		22	36	50	64
20		24	38	52	66
21		26	40	54	68
22		28	42	56	70
23					

The formulas: (use Control + ~ to show all formulas in cells, use this keystroke again to revert back to numbers in the cells)

All tables together			
=table 1!A7	=table 1!B7	=table 1!C7	=table 1!D7
=table 1!A8	=table 1!B8	=table 1!C8	=table 1!D8
=table 1!A9	=table 1!B9	=table 1!C9	=table 1!D9
=table 1!A10	=table 1!B10	=table 1!C10	=table 1!D10
=table 1!A11	=table 1!B11	=table 1!C11	=table 1!D11
=table 1!A12	=table 1!B12	=table 1!C12	=table 1!D12
=table 2!A3	=table 2!B3	=table 2!C3	=table 2!D3
=table 2!A4	=table 2!B4	=table 2!C4	=table 2!D4
=table 2!A5	=table 2!B5	=table 2!C5	=table 2!D5
=table 2!A6	=table 2!B6	=table 2!C6	=table 2!D6
=table 2!A7	=table 2!B7	=table 2!C7	=table 2!D7
=table 2!A8	=table 2!B8	=table 2!C8	=table 2!D8
=table 2!A9	=table 2!B9	=table 2!C9	=table 2!D9
=table 3!B2	=table 3!C2	=table 3!D2	=table 3!E2
=table 3!B3	=table 3!C3	=table 3!D3	=table 3!E3
=table 3!B4	=table 3!C4	=table 3!D4	=table 3!E4
=table 3!B5	=table 3!C5	=table 3!D5	=table 3!E5
=table 3!B6	=table 3!C6	=table 3!D6	=table 3!E6
=table 3!B7	=table 3!C7	=table 3!D7	=table 3!E7
=table 3!B8	=table 3!C8	=table 3!D8	=table 3!E8

The formulas demonstrate the linking to the other three worksheets within the Excel workbook.

Got an inquiry? Email us at its.training@usask.ca OR it4u@usask.ca if you are a STUDENT.