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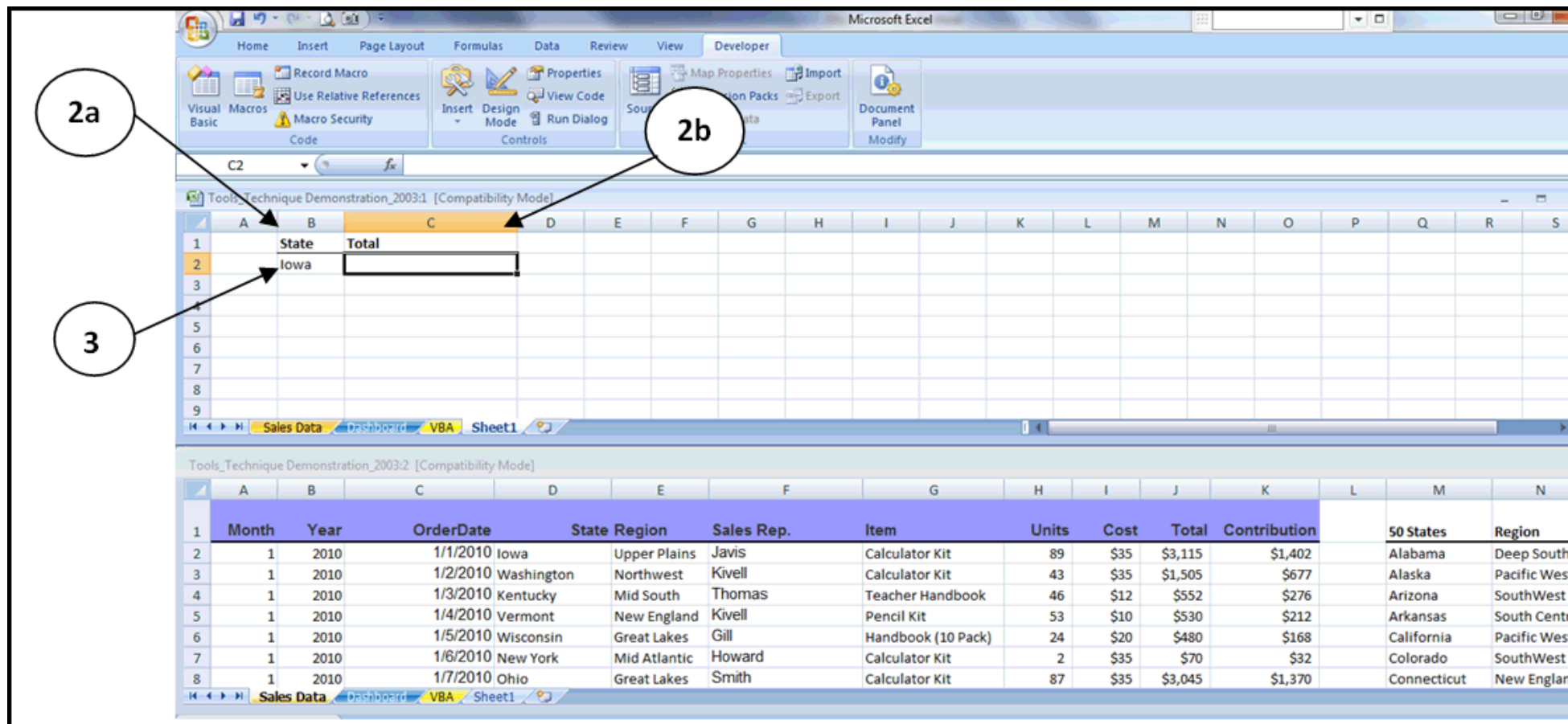
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DSUM

Chances are you may have never heard of the DSUM formula. This formula can be used as a substitute for SUMIF and summation component of a pivot table. The DSUM formula is part of a suite of functions built to query a database. DSUM is short for Database Sum. Below are steps detailing the formula usage.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Month	Year	OrderDate	State	Region	Sales Rep.	Item	Units	Cost	Total	Contribution		50 States	Region
2	1	2010	1/1/2010	Iowa	Upper Plains	Javis	Calculator Kit	89	\$35	\$3,115	\$1,402		Alabama	Deep South
3	1	2010	1/2/2010	Washington	Northwest	Kivell	Calculator Kit	43	\$35	\$1,505	\$677		Alaska	Pacific West
4	1	2010	1/3/2010	Kentucky	Mid South	Thomas	Teacher Handbook	46	\$12	\$552	\$276		Arizona	SouthWest
5	1	2010	1/4/2010	Vermont	New England	Kivell	Pencil Kit	53	\$10	\$530	\$212		Arkansas	South Centra
6	1	2010	1/5/2010	Wisconsin	Great Lakes	Gill	Handbook (10 Pack)	24	\$20	\$480	\$168		California	Pacific West
7	1	2010	1/6/2010	New York	Mid Atlantic	Howard	Calculator Kit	2	\$35	\$70	\$32		Colorado	SouthWest
8	1	2010	1/7/2010	Ohio	Great Lakes	Smith	Calculator Kit	87	\$35	\$3,045	\$1,370		Connecticut	New England
9	1	2010	1/8/2010	Ohio	Great Lakes	Howard	Calculator Kit	48	\$35	\$1,680	\$756		Delaware	Mid Atlantic
10	1	2010	1/9/2010	Michigan	Great Lakes	Howard	Calculator Kit	60	\$35	\$2,100	\$945		Florida	Deep South
11	1	2010	1/10/2010	Michigan	Great Lakes	Gill	Calculator Kit	11	\$35	\$385	\$173		Georgia	Deep South
12	1	2010	1/11/2010	Illinois	Great Lakes	Jones	Calculator Kit	41	\$35	\$1,435	\$646		Hawaii	Pacific West
13	1	2010	1/12/2010	Wisconsin	Great Lakes	Kivell	Calculator Kit	80	\$35	\$2,800	\$1,260		Idaho	Northwest
14	1	2010	1/13/2010	Ohio	Great Lakes	Gill	Calculator Kit	61	\$35	\$2,135	\$961		Illinois	Great Lakes
15	1	2010	1/14/2010	Wisconsin	Great Lakes	Javis	Handbook (10 Pack)	8	\$20	\$160	\$56		Indiana	Great Lakes
16	1	2010	1/15/2010	South Dakota	Upper Plains	Kivell	Handbook (10 Pack)	85	\$20	\$1,700	\$595		Iowa	Upper Plains
17	1	2010	1/16/2010	South Carolina	Mid South	Howard	Handbook (10 Pack)	19	\$20	\$380	\$133		Kansas	South Centra
18	1	2010	1/17/2010	Nebraska	Upper Plains	Jardine	Flash Cards	20	\$6	\$120	\$66		Kentucky	Mid South
19	1	2010	1/18/2010	New Hampshire	New England	Gill	Calculator Kit	70	\$35	\$2,450	\$1,103		Louisiana	Deep South
20	1	2010	1/19/2010	Connecticut	New England	Gill	Handbook (10 Pack)	26	\$20	\$520	\$182		Maine	New England
21	1	2010	1/20/2010	Ohio	Great Lakes	Gill	Calculator Kit	10	\$35	\$350	\$158		Maryland	Mid Atlantic
22	1	2010	1/21/2010	North Carolina	Mid South	Jones	Flash Cards	41	\$6	\$246	\$135		Massachusetts	New England
23	1	2010	1/22/2010	Nebraska	Upper Plains	Jardine	Flash Cards	52	\$6	\$312	\$172		Michigan	Great Lakes
24	1	2010	1/23/2010	Nebraska	Upper Plains	Kivell	Handbook (10 Pack)	71	\$20	\$1,420	\$497		Minnesota	Upper Plains

1. Here we have a dataset containing sales by state & region, lets use DSUM to total



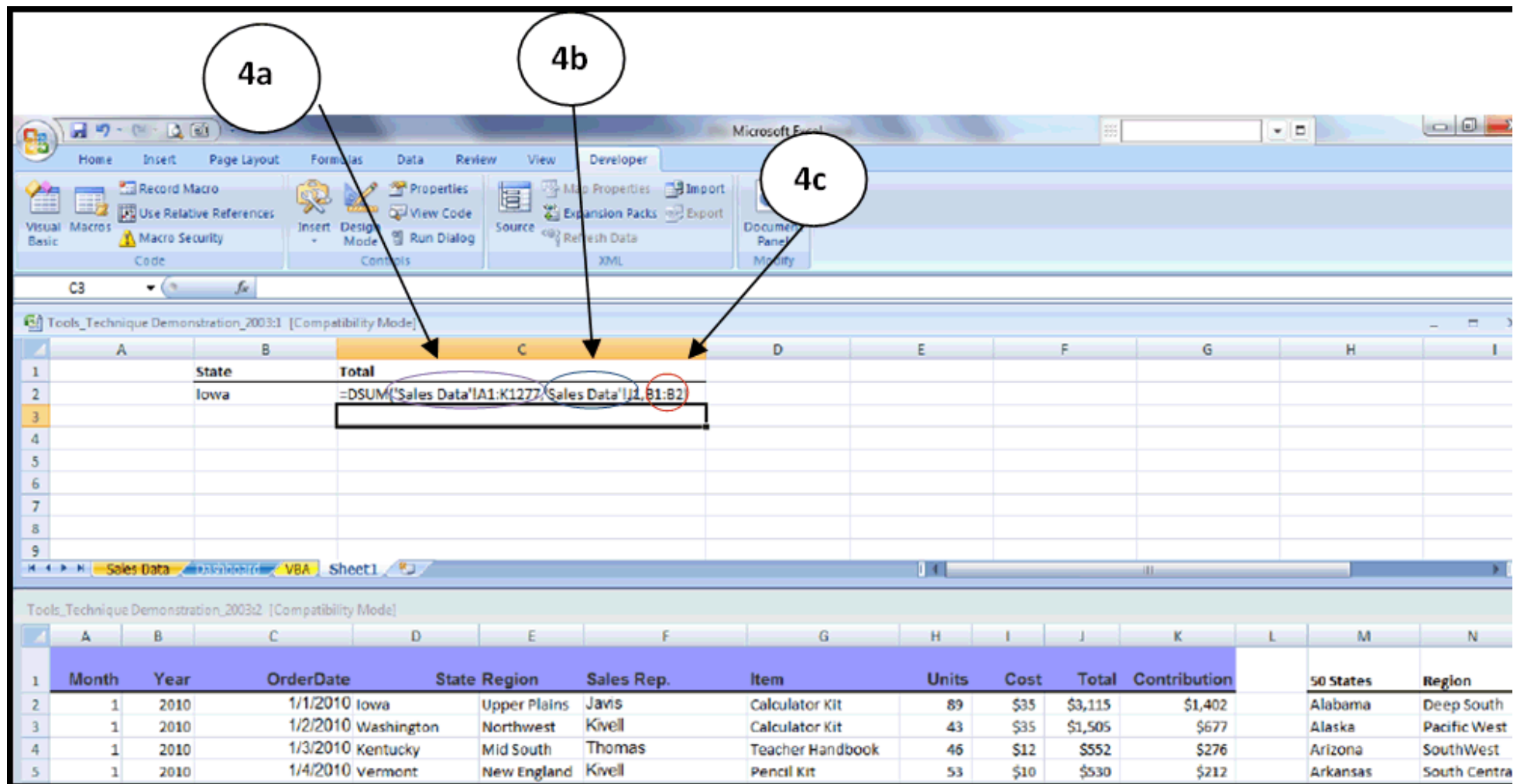
2. Create a table which mimics the headers in the original dataset

a. State

b. Total

3. Add the query criteria (ex. Iowa)

Note: Iowa represents one of the descriptions in this data set.



4. The formula is = DSUM(database, field, criteria)

a. Database: The table being used to retrieve information.

b. Field: label of column or column position

c. Criteria: The item to be searched including the column label

The screenshot shows Microsoft Excel with the Developer tab active. The formula bar contains the DSUM formula: `=DSUM('Sales Data'!A1:K1277,'Sales Data'!J1,B1:B2)`. The spreadsheet below shows a summary table with the following data:

State	Total
Iowa	9199

The formula bar also shows the source data table structure:

Month	Year	OrderDate	State	Region	Sales Rep.	Item	Units	Cost	Total	Contribution	50 States	Region
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1	2010	1/7/2010	Ohio	Great Lakes	Smith	Calculator Kit	87	\$35	\$3,045	\$1,370	Connecticut	New Englan

5. Using the DSUM formula we have arrived at a total of \$9,199

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