

## TechTip: DB2 Web Query and Excel Spreadsheets- Easy as Pie!, Part I

Did you know DB2 Web Query has output options to send your reports directly to Excel? Learn about some features that will help you easily and quickly build spreadsheets.

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The Excel spreadsheet is an immensely popular tool for analyzing business data. It has a vast array of features and functions for manipulating and representing information in various ways to help you understand your business data and make more informed decisions going forward. Consequently, many users and analysts go to great lengths to extract data from their production database and copy it into Excel. If your business data happens to be stored in a DB2 for i database, there's simply no easier way to push this information down to Excel than by using IBM DB2 Web Query for i.

In this multi-part TechTip, you will learn about a number of DB2 Web Query features that you can use to make those Excel reports look exactly like you want them to—with the click of the Run button!

### Various Excel Output Formats

First let's talk about the different options you have when it comes to generating Excel output. The report development tool for DB2 Web Query is a tool called InfoAssist. With InfoAssist, you can also create charts, dashboards, and compound documents, but this article will focus on generating reports that go to Excel output format.

The format tab of InfoAssist shows you the various output types. If you click on the down arrow in the Excel icon, you will see a list of Excel output format options you can choose from. See Figure 1: Choose your Excel output format.

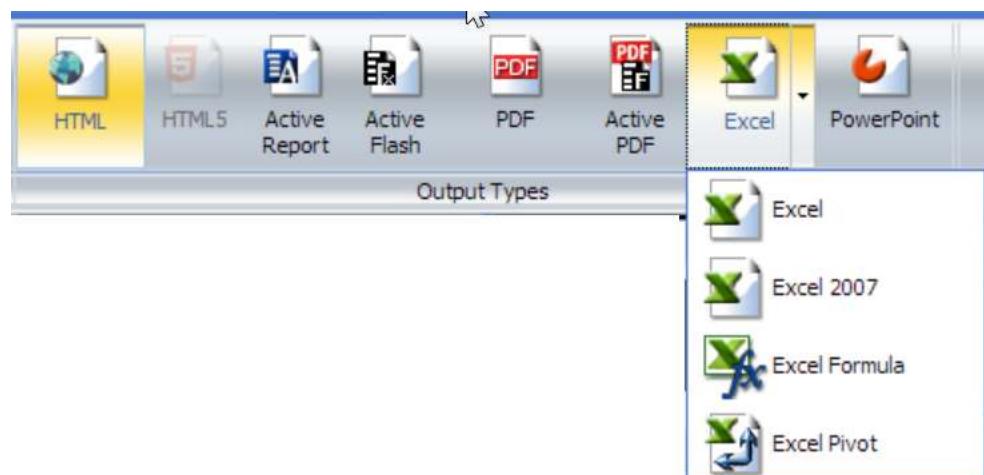


Figure 1: Choose your Excel output format.

An explanation of each output type is provided below:

- Excel—Generates a spreadsheet in the .XLS format
- Excel 2007—Generates a spreadsheet in the .XLSX format
- Excel Formula—Generates a spreadsheet in the .XLS format. Cells that contain values that were calculated during report execution time (those based on define fields, compute fields, subtotals, and totals) will have the appropriate Excel formula, not the value itself.
- Excel Pivot—Generates a spreadsheet in the .XLS format with pivot table processing

For our report, we want to generate Excel 2007 (XLSX) output, so that output type is selected. For the report layout, we would like to query the ORDERS table in our DB2 for i database and sort by the Product Type, Product Category, and Product Name columns. For the report measure, we would like to show the Quantity sold. From InfoAssist, our example report definition is shown in Figure 2: Your report definition.

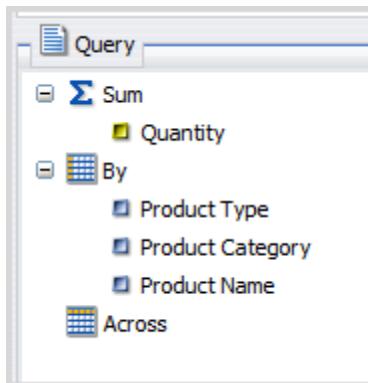


Figure 2: Your report definition is set.

Before saving the report, click the Run button to make sure it looks the way you want. The results are shown in Figure 3: Are the report results.

	A	B	C	D
1	Product Type	Product Category	Product Name	Quantity
2	Audio	Amplifiers/PreAmps/Tuners	AM / FM Stereo Tuner	4,778
3			Modular Components Series Preamplifier 5.1	15,981
4			PA4000 Stereo & Surround Power Amplifier	15,272
5			Power Amplifier	24,565
6			PreAmp/Tuner Two	48,826
7		Audio Systems	Home Theater Surround System	8,893
8			Home Theater 5.1 System	37,856
9			Home Theater 7.1 THX System	8,103
10			Micro HiFi Stereo System	20,663
11			Micro 5.1 System	10,505
12		CD Players and Recorders	CD Changer / CD Player	23,563
13			CD Recorder with 50GB Hard Disc Drive	7,245
14			Digital CD Turntable	42,442
15			Multichannel Super Audio CD Player	4,782
16			400 Disc Super Audio CD Changer	4,609
17		MP3	MP3 Digital Audio Computer	11,713
18			MP3 Digital Audio Computer 10GB	9,350
19			MP3 Digital Audio Computer 4GB	44,541
20			MP3 Player	119,246
21			MP3 Player Jukebox Hard Drive	31,192
22		Receivers	Audio/Video Receiver	21,622
23			5.1 Channel Home Theater Receiver 100 WPC	10,803
24			5.1 Channel Home Theater Receiver 150 WPC	7,249
25			6.1 Channel Home Theater Receiver 100 WPC	40,573
26			7.1 Channel THX Home Theater Receiver	7,130

Figure 3: Are the report results what you want them to be?

## Repeat Sort Values

By default, DB2 Web Query does not show repeating sort values in a Summary report. This is not always ideal for spreadsheet output. In many cases, spreadsheet users like to show every value in all rows and columns. This default behavior is easily remedied by a feature called (strangely enough) Repeat Sort Values. As shown in Figure 4: Select Format > Features to get Repeat Sort Values, this feature is found by selecting the Format tab and expanding the Features group.



Figure 4: Select Format > Features to get Repeat Sort Values functionality.

As you can see in Figure 5: Repeated Sort Values, running the report reveals that all values for the Product Type, Product Category, and Product Name columns are shown in the spreadsheet.

	A	B	C	D
1	Product Type	Product Category	Product Name	Quantity
2	Audio	Amplifiers/PreAmps/Tuners	AM / FM Stereo Tuner	4,778
3	Audio	Amplifiers/PreAmps/Tuners	Modular Components Series Preamp 5.1	15,981
4	Audio	Amplifiers/PreAmps/Tuners	PA4000 Stereo & Surround Power Amplifier	15,272
5	Audio	Amplifiers/PreAmps/Tuners	Power Amplifier	24,565
6	Audio	Amplifiers/PreAmps/Tuners	PreAmp/Tuner Two	48,826
7	Audio	Audio Systems	Home Theater Surround System	8,893
8	Audio	Audio Systems	Home Theater 5.1 System	37,856
9	Audio	Audio Systems	Home Theater 7.1 THX System	8,103
10	Audio	Audio Systems	Micro HiFi Stereo System	20,663
11	Audio	Audio Systems	Micro 5.1 System	10,505
12	Audio	CD Players and Recorders	CD Changer / CD Player	23,563
13	Audio	CD Players and Recorders	CD Recorder with 50GB Hard Disc Drive	7,245
14	Audio	CD Players and Recorders	Digital CD Turntable	42,442
15	Audio	CD Players and Recorders	Multichannel Super Audio CD Player	4,782
16	Audio	CD Players and Recorders	400 Disc Super Audio CD Changer	4,609
17	Audio	MP3	MP3 Digital Audio Computer	11,713
18	Audio	MP3	MP3 Digital Audio Computer 10GB	9,350
19	Audio	MP3	MP3 Digital Audio Computer 4GB	44,541
20	Audio	MP3	MP3 Player	119,246
21	Audio	MP3	MP3 Player Julebox Hard Drive	31,192
22	Audio	Receivers	Audio/Video Receiver	21,622
23	Audio	Receivers	5.1 Channel Home Theater Receiver 100 WPC	10,803
24	Audio	Receivers	5.1 Channel Home Theater Receiver 150 WPC	7,249
25	Audio	Receivers	6.1 Channel Home Theater Receiver 100 WPC	40,573
26	Audio	Receivers	7.1 Channel THX Home Theater Receiver	7,130

Figure 5: Repeated Sort Values shows values in all columns.

## Sort Across

The report is looking good but is far from finished. We would also like a breakdown of the countries in which we sold our products. But rather than including the Country database field as a sort by (where the data for each unique country is shown as a row in the report), we would like to show the country data in report columns. This technique of pivoting the data means we can see the numbers for the various countries side by side. This is accomplished by selecting Country as an Across field in our report and is shown in **Error! Reference source not found..**

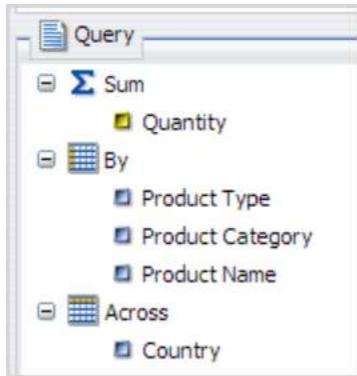


Figure 6: The report definition now includes Across.

Figure 7: These are the report results with Across shows the results of running this report.

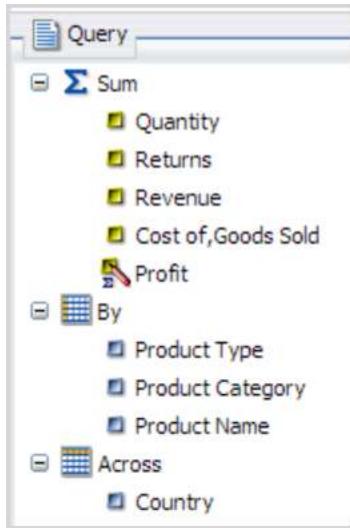
	A	B	C	D	E	F	G	H
1								
2								
3	Product Type	Product Category	Product Name	Quantity	Quantity	Quantity	Quantity	Quantity
4	Audio	Amplifiers/PreAmps/Tuners	AM / FM Stereo Tuner	339	371	302	218	3,548
5	Audio	Amplifiers/PreAmps/Tuners	Modular Components Series Preamp 5.1	1,953	904	800	502	11,822
6	Audio	Amplifiers/PreAmps/Tuners	PA4000 Stereo & Surround Power Amplifier	1,780	528	715	385	11,864
7	Audio	Amplifiers/PreAmps/Tuners	Power Amplifier	3,220	1,058	1,251	1,159	17,877
8	Audio	Amplifiers/PreAmps/Tuners	PreAmp/Tuner Two	5,763	2,100	3,074	2,836	35,053
9	Audio	Audio Systems	Home Theater Surround System	782	118	200	269	7,524
10	Audio	Audio Systems	Home Theater 5.1 System	4,879	1,963	2,357	1,513	27,144
11	Audio	Audio Systems	Home Theater 7.1 THX System	1,110	385	430	569	5,609
12	Audio	Audio Systems	Micro HiFi Stereo System	2,199	1,273	516	739	15,936
13	Audio	Audio Systems	Micro 5.1 System	786	410	134	260	8,915
14	Audio	CD Players and Recorders	CD Changer / CD Player	2,239	1,708	864	653	18,099
15	Audio	CD Players and Recorders	CD Recorder with 50GB Hard Disc Drive	1,393	147	13	203	5,489
16	Audio	CD Players and Recorders	Digital CD Turntable	4,758	1,581	2,097	2,694	31,312
17	Audio	CD Players and Recorders	Multichannel Super Audio CD Player	278	171	219	66	4,048
18	Audio	CD Players and Recorders	400 Disc Super Audio CD Changer	178	218	.	76	4,137
19	Audio	MP3	MP3 Digital Audio Computer	1,633	547	561	414	8,558
20	Audio	MP3	MP3 Digital Audio Computer 10GB	534	277	819	339	7,381
21	Audio	MP3	MP3 Digital Audio Computer 4GB	4,558	3,529	2,672	1,764	32,018
22	Audio	MP3	MP3 Player	13,916	5,133	6,987	4,647	88,563
23	Audio	MP3	MP3 Player Julebox Hard Drive	4,161	986	832	1,332	23,881
24	Audio	Receivers	Audio/Video Receiver	2,106	699	1,302	2,045	15,470
25	Audio	Receivers	5.1 Channel Home Theater Receiver 100 WPC	708	656	206	511	8,722
26	Audio	Receivers	5.1 Channel Home Theater Receiver 150 WPC	945	305	335	37	5,627
27	Audio	Receivers	6.1 Channel Home Theater Receiver 100 WPC	4,321	1,570	3,212	1,570	29,900
28	Audio	Receivers	7.1 Channel THX Home Theater Receiver	925	252	86	99	5,768

Figure 7: These are the report results with Across.

## Stack Measures

As you can see, sort Across is a very useful feature because you can juxtapose the measure columns and do easier side-by-side comparisons of the numbers. However, it increases the number of measure columns in the

report by a factor of the number of unique sort across values. Since there is only one measure column, this is not really an issue in the current version of our report. But consider what happens when you add four more measure columns to the report as shown in Figure 8: The report definition now includes more measure columns.



**Figure 8: The report definition now includes more measure columns.**

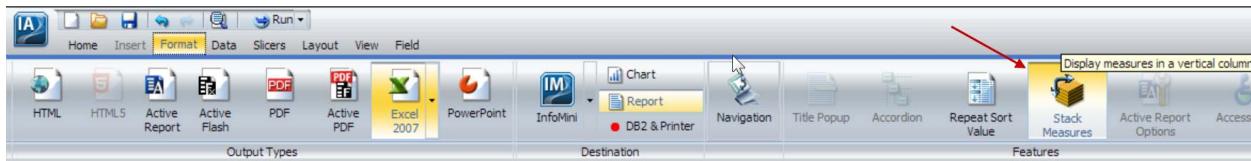
The report now has five measure columns. Because our Orders table has five unique values for Country, this means that the report will have 25 (5 x 5) measure columns! As you can see in Figure 9: With this many columns, when this report is run, the report is immensely wider and much more difficult to view and comprehend.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
	Country	Country	Country	France	France	France	France	France	France	France	France	France	France	France	France	France	France	France	France	France	France	France	France	France	France	United States	United States	United States
3	Product	Product Category	Product Name	Quantity Retries	Debtors	Cost of Goods Sold	Profit Quantity Retries	Debtors	Cost of Goods Sold	Profit Quantity Retries	Debtors	Cost of Goods Sold	Profit Quantity Retries	Debtors	Cost of Goods Sold	Profit Quantity Retries	Debtors	Cost of Goods Sold	Profit Quantity Retries	Debtors	Cost of Goods Sold	Profit Quantity Retries	Debtors	Cost of Goods Sold	Profit Quantity Retries	Debtors	Cost of Goods Sold	Profit
4	Audio	Amplifiers	Amplifier Two	1,100	100	\$17,000.00	\$1,100.00	1,100	\$17,000.00	\$1,100.00	1,100	\$17,000.00	\$1,100.00	1,100	\$17,000.00	\$1,100.00	1,100	\$17,000.00	\$1,100.00	1,100	\$17,000.00	\$1,100.00	1,100	\$17,000.00	\$1,100.00	1,100	\$17,000.00	\$1,100.00
5	Audio	Amplifiers	Amplifier Three	1,053	997	\$17,824.00	\$1,053.490	1,054	\$17,824.00	\$1,053.490	994	\$17,824.00	\$1,053.490	995	\$17,824.00	\$1,053.490	996	\$17,824.00	\$1,053.490	997	\$17,824.00	\$1,053.490	998	\$17,824.00	\$1,053.490	999	\$17,824.00	\$1,053.490
6	Audio	Amplifiers	Amplifier Three	1,050	952	\$17,822.00	\$1,050.600	1,050	\$17,822.00	\$1,050.600	528	\$17,822.00	\$1,050.600	529	\$17,822.00	\$1,050.600	530	\$17,822.00	\$1,050.600	531	\$17,822.00	\$1,050.600	532	\$17,822.00	\$1,050.600	533	\$17,822.00	\$1,050.600
7	Audio	Amplifiers	Amplifier Two	1,050	952	\$17,822.00	\$1,050.600	1,050	\$17,822.00	\$1,050.600	528	\$17,822.00	\$1,050.600	529	\$17,822.00	\$1,050.600	530	\$17,822.00	\$1,050.600	531	\$17,822.00	\$1,050.600	532	\$17,822.00	\$1,050.600	533	\$17,822.00	\$1,050.600
8	Audio	Amplifiers	Amplifier Two	5,953	561	\$2,371,750.00	\$145,175.00	5,953	\$2,371,750.00	\$145,175.00	2,059	\$2,371,750.00	\$145,175.00	2,060	\$2,371,750.00	\$145,175.00	2,061	\$2,371,750.00	\$145,175.00	2,062	\$2,371,750.00	\$145,175.00	2,063	\$2,371,750.00	\$145,175.00	2,064	\$2,371,750.00	\$145,175.00
9	Audio	Amplifiers	Amplifier Three	592	75	\$176,110.00	\$10,607.00	593	\$176,110.00	\$10,607.00	76	\$176,110.00	\$10,607.00	77	\$176,110.00	\$10,607.00	78	\$176,110.00	\$10,607.00	79	\$176,110.00	\$10,607.00	80	\$176,110.00	\$10,607.00	81	\$176,110.00	\$10,607.00
10	Audio	Speakers	Speaker Three	4,841	479	\$17,000.00	\$1,100.00	4,842	\$17,000.00	\$1,100.00	478	\$17,000.00	\$1,100.00	479	\$17,000.00	\$1,100.00	480	\$17,000.00	\$1,100.00	481	\$17,000.00	\$1,100.00	482	\$17,000.00	\$1,100.00	483	\$17,000.00	\$1,100.00
11	Audio	Speakers	Speaker Two	1,050	957	\$13,283,850.00	\$12,220,000.00	1,050	\$13,283,850.00	\$12,220,000.00	385	\$13,283,850.00	\$12,220,000.00	386	\$13,283,850.00	\$12,220,000.00	387	\$13,283,850.00	\$12,220,000.00	388	\$13,283,850.00	\$12,220,000.00	389	\$13,283,850.00	\$12,220,000.00	390	\$13,283,850.00	\$12,220,000.00
12	Audio	Speakers	Speaker Three	2,159	291	\$177,410.00	\$15,170.00	2,160	\$177,410.00	\$15,170.00	1,273	\$177,410.00	\$15,170.00	1,274	\$177,410.00	\$15,170.00	1,275	\$177,410.00	\$15,170.00	1,276	\$177,410.00	\$15,170.00	1,277	\$177,410.00	\$15,170.00	1,278	\$177,410.00	\$15,170.00
13	Audio	Speakers	Speaker Two	1,050	957	\$13,283,850.00	\$12,220,000.00	1,050	\$13,283,850.00	\$12,220,000.00	385	\$13,283,850.00	\$12,220,000.00	386	\$13,283,850.00	\$12,220,000.00	387	\$13,283,850.00	\$12,220,000.00	388	\$13,283,850.00	\$12,220,000.00	389	\$13,283,850.00	\$12,220,000.00	390	\$13,283,850.00	\$12,220,000.00
14	Audio	CD Players	CD Player / CD Player	2,239	25	\$145,150.00	\$15,600.00	2,240	\$145,150.00	\$15,600.00	176,861	\$145,150.00	\$15,600.00	176,861	\$145,150.00	\$15,600.00	176,861	\$145,150.00	\$15,600.00	176,861	\$145,150.00	\$15,600.00	176,861	\$145,150.00	\$15,600.00	176,861	\$145,150.00	\$15,600.00
15	Audio	CD Players	CD Player / CD Player	1,050	957	\$13,283,850.00	\$12,220,000.00	1,050	\$13,283,850.00	\$12,220,000.00	385	\$13,283,850.00	\$12,220,000.00	386	\$13,283,850.00	\$12,220,000.00	387	\$13,283,850.00	\$12,220,000.00	388	\$13,283,850.00	\$12,220,000.00	389	\$13,283,850.00	\$12,220,000.00	390	\$13,283,850.00	\$12,220,000.00
16	Audio	CD Players	CD Player / CD Player	1,050	957	\$13,283,850.00	\$12,220,000.00	1,050	\$13,283,850.00	\$12,220,000.00	385	\$13,283,850.00	\$12,220,000.00	386	\$13,283,850.00	\$12,220,000.00	387	\$13,283,850.00	\$12,220,000.00	388	\$13,283,850.00	\$12,220,000.00	389	\$13,283,850.00	\$12,220,000.00	390	\$13,283,850.00	\$12,220,000.00
17	Audio	CD Players	CD Player / CD Player	275	25	\$15,520.00	\$105,400.00	276	\$15,520.00	\$105,400.00	154	\$15,520.00	\$105,400.00	155	\$15,520.00	\$105,400.00	156	\$15,520.00	\$105,400.00	157	\$15,520.00	\$105,400.00	158	\$15,520.00	\$105,400.00	159	\$15,520.00	\$105,400.00
18	Audio	CD Players	CD Player / CD Player	1,050	957	\$13,283,850.00	\$12,220,000.00	1,050	\$13,283,850.00	\$12,220,000.00	385	\$13,283,850.00	\$12,220,000.00	386	\$13,283,850.00	\$12,220,000.00	387	\$13,283,850.00	\$12,220,000.00	388	\$13,283,850.00	\$12,220,000.00	389	\$13,283,850.00	\$12,220,000.00	390	\$13,283,850.00	\$12,220,000.00
19	Audio	CD Players	CD Player / CD Player	1,050	957	\$13,283,850.00	\$12,220,000.00	1,050	\$13,283,850.00	\$12,220,000.00	385	\$13,283,850.00	\$12,220,000.00	386	\$13,283,850.00	\$12,220,000.00	387	\$13,283,850.00	\$12,220,000.00	388	\$13,283,850.00	\$12,220,000.00	389	\$13,283,850.00	\$12,220,000.00	390	\$13,283,850.00	\$12,220,000.00
20	Audio	MP3	MP3 Digital Audio Computer	534	73	\$124,930.00	\$19,090.00	535	\$124,930.00	\$19,090.00	217	\$124,930.00	\$19,090.00	218	\$124,930.00	\$19,090.00	219	\$124,930.00	\$19,090.00	220	\$124,930.00	\$19,090.00	221	\$124,930.00	\$19,090.00	222	\$124,930.00	\$19,090.00
21	Audio	MP3	MP3 Digital Audio Computer	534	73	\$124,930.00	\$19,090.00	535	\$124,930.00	\$19,090.00	217	\$124,930.00	\$19,090.00	218	\$124,930.00	\$19,090.00	219	\$124,930.00	\$19,090.00	220	\$124,930.00	\$19,090.00	221	\$124,930.00	\$19,090.00	222	\$124,930.00	\$19,090.00
22	Audio	MP3	MP3 Player	10,516	1,543	\$179,540.00	\$10,516,000.00	10,517	\$179,540.00	\$10,516,000.00	5,153	\$179,540.00	\$10,516,000.00	5,154	\$179,540.00	\$10,516,000.00	5,155	\$179,540.00	\$10,516,000.00	5,156	\$179,540.00	\$10,516,000.00	5,157	\$179,540.00	\$10,516,000.00	5,158	\$179,540.00	\$10,516,000.00
23	Audio	MP3	MP3 Player / MP3 Player	4,651	402	\$106,410.00	\$10,600.00	4,652	\$106,410.00	\$10,600.00	3,170,350	\$106,410.00	\$10,600.00	3,170,351	\$106,410.00	\$10,600.00	3,170,352	\$106,410.00	\$10,600.00	3,170,353	\$106,410.00	\$10,600.00	3,170,354	\$106,410.00	\$10,600.00	3,170,355	\$106,410.00	\$10,600.00
24	Audio	MP3	MP3 Player / MP3 Player	1,050	957	\$13,283,850.00	\$12,220,000.00	1,050	\$13,283,850.00	\$12,220,000.00	385	\$13,283,850.00	\$12,220,000.00	386	\$13,283,850.00	\$12,220,000.00	387	\$13,283,850.00	\$12,220,000.00	388	\$13,283,850.00	\$12,220,000.00	389	\$13,283,850.00	\$12,220,000.00	390	\$13,283,850.00	\$12,220,000.00
25	Audio	MP3	MP3 Player / MP3 Player	1,050	957	\$13,283,850.00	\$12,220,000.00	1,050	\$13,283,850.00	\$12,220,000.00	385	\$13,283,850.00	\$12,220,000.00	386	\$13,283,850.00	\$12,220,000.00	387	\$13,283,850.00	\$12,220,000.00	388	\$13,283,850.00	\$12,220,000.00	389	\$13,283,850.00	\$12,220,000.00	390	\$13,283,850.00	\$12,220,000.00
26	Audio	MP3	MP3 Player / MP3 Player	545	26	\$123,450.00	\$10,500.00	546	\$123,450.00	\$10,500.00	1,045,605	\$123,450.00	\$10,500.00	1,045,606	\$123,450.00	\$10,500.00	1,045,607	\$123,450.00	\$10,500.00	1,045,608	\$123,450.00	\$10,500.00	1,045,609	\$123,450.00	\$10,500.00	1,045,610	\$123,450.00	\$10,500.00
27	Audio	MP3	MP3 Player / MP3 Player	1,050	957	\$13,283,850.00	\$12,220,000.00	1,050	\$13,283,850.00	\$12,220,000.00	385	\$13,283,850.00	\$12,220,000.00	386	\$13,283,850.00	\$12,220,000.00	387	\$13,283,850.00	\$12,220,000.00	388	\$13,283,850.00	\$12,220,000.00	389	\$13,283,850.00	\$12,220,000.00	390	\$13,283,850.00	\$12,220,000.00
28	Audio	MP3	MP3 Player / MP3 Player	905	60	\$10,517,000.00	\$10,516,500.00	906	\$10,517,000.00	\$10,516,500.00	572	\$10,517,000.00	\$10,516,500.00	573	\$10,517,000.00	\$10,516,500.00	574	\$10,517,000.00	\$10,516,500.00	575	\$10,517,000.00	\$10,516,500.00	576	\$10,517,000.00	\$10,516,500.00	577	\$10,517,000.00	\$10,516,500.00

Figure 9: With this many columns, the report results are hard to read.

What to do, what to do? This report has the information that's needed; you really don't want to remove any of it, but it's quite overwhelming and hard to digest. Never fear! Reports that have multiple measures and Across fields are great candidates for an InfoAssist feature called Stack Measures. This option also performs a pivot of the data—only now the measures are stacked so that they're shown vertically. This can really tidy up these wide reports!

To stack the measures in the report, go to the Format tab, expand the Features group, and select the Stack Measure icon. Once the icon is illuminated, the feature is activated.



**Figure 10: Turn on the Stack Measures feature.**

Now that the measures are displayed in vertical columns, the report becomes longer (vertically), but it's much easier to read and comprehend.

A	B	C	D	E	F	G	H	I
1				Country				
2				Canada	France	Germany	Spain	United States
3	Product Type	Product Category	Product Name	Quantity	339	371	302	218
4	Audio	Amplifiers/PreAmps/Tuners	AM / FM Stereo Tuner	Returns	31	37	29	20
5				Revenue	\$67,461.00	\$73,829.00	\$60,098.00	\$43,382.00
6				Cost of Goods Sold	\$33,900.00	\$37,100.00	\$30,200.00	\$21,800.00
7				Profit	\$33,561	\$36,729	\$29,898	\$21,582
8				Quantity	1,953	904	800	502
9	Audio	Amplifiers/PreAmps/Tuners	Modular Components Series Preamp 5.1	Returns	187	89	79	49
10				Revenue	\$779,247.00	\$360,696.00	\$319,200.00	\$200,298.00
11				Cost of Goods Sold	\$644,490.00	\$298,320.00	\$264,000.00	\$165,660.00
12				Profit	\$134,757	\$62,376	\$55,200	\$34,638
13				Quantity	1,780	528	715	385
14	Audio	Amplifiers/PreAmps/Tuners	PA4000 Stereo & Surround Power Amplifier	Returns	172	52	68	36
15				Revenue	\$532,220.00	\$157,872.00	\$213,785.00	\$115,115.00
16				Cost of Goods Sold	\$391,600.00	\$116,160.00	\$157,300.00	\$84,700.00
17				Profit	\$140,620	\$41,712	\$56,485	\$30,415
18				Quantity	3,220	1,058	1,251	1,159
19	Audio	Amplifiers/PreAmps/Tuners	Power Amplifier	Returns	315	102	122	110
20				Revenue	\$801,780.00	\$263,442.00	\$311,499.00	\$288,591.00
21				Cost of Goods Sold	\$579,600.00	\$190,440.00	\$225,180.00	\$208,620.00
22				Profit	\$222,180	\$73,002	\$86,319	\$79,971
23				Quantity	5,763	2,100	3,074	2,836
24	Audio	Amplifiers/PreAmps/Tuners	PreAmp/Tuner Two	Returns	561	202	299	276
25				Revenue	\$2,875,737.00	\$1,047,900.00	\$1,533,926.00	\$1,415,164.00
26				Cost of Goods Sold	\$1,440,750.00	\$525,000.00	\$768,500.00	\$709,000.00
27				Profit	\$1,434,987	\$522,900	\$765,426	\$706,164
28				Quantity	782	118	200	269
29	Audio	Audio Systems	Home Theater Surround System	Returns	75	11	20	25
30				Revenue	\$781,218.00	\$117,882.00	\$199,800.00	\$268,731.00
31				Cost of Goods Sold	\$586,500.00	\$88,500.00	\$150,000.00	\$201,750.00
32				Profit	\$194,718	\$29,382	\$49,800	\$66,981
33				Quantity	4,879	1,963	2,357	1,513
34	Audio	Audio Systems	Home Theater 5.1 System	Returns	471	189	228	148
35				Revenue	\$9,753,121.00	\$3,924,037.00	\$4,711,643.00	\$3,024,487.00
36				Cost of Goods Sold	\$6,342,700.00	\$2,551,900.00	\$3,064,100.00	\$1,966,900.00
37				Profit	\$3,410,421	\$1,372,137	\$1,647,543	\$1,057,587
38								\$18,973,656

**Figure 11: Report results with stacked measures are easier to read.**

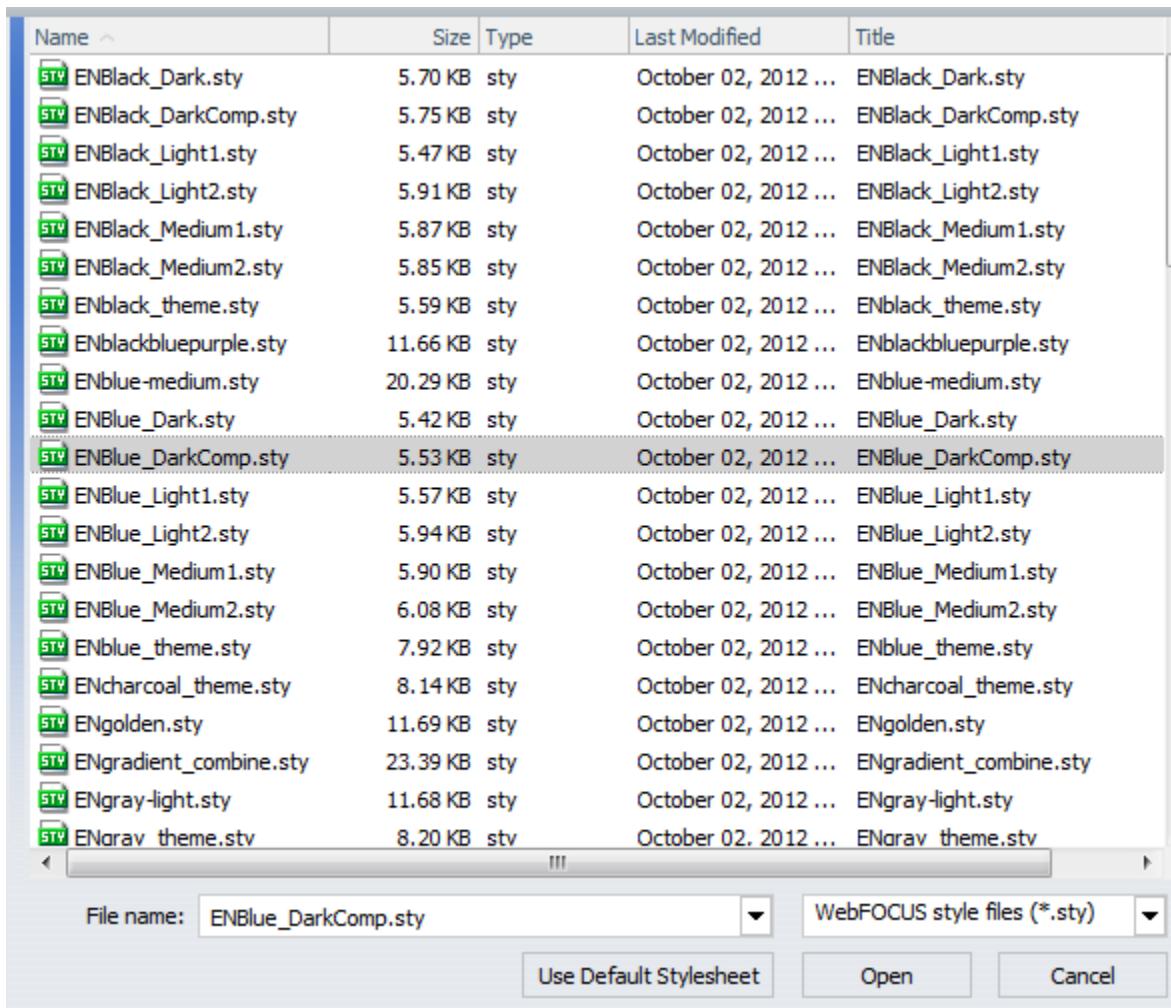
## Change Theme

DB2 Web Query comes shipped with a large number of style sheets that can be used to customize the color, font, size, borders, background colors, and other attributes. You can select one of these style sheets by changing the theme of the report. The selected theme will be applied to the Excel spreadsheet. To change the theme, select the Home tab, expand the Reports group, and click the Theme icon as shown in Figure 12: Change the report's theme.



**Figure 12: Change the report's theme.**

A dialogue window with all of the provided DB2 Web Query themes is presented. Select a theme and click Open. As shown in Figure 13: Select a theme, for our example, we select the ENBlue\_DarkComp.sty theme.



**Figure 13: Select a theme.**

As you can see in Figure 14: The report results show the new theme, running the reports shows that the theme is applied to the generated spreadsheet.

A	B	C	D	E	F	G	H	I	
1				Country					
2				Canada	France	Germany	Spain	United States	
3	Product Type	Product Category	Product Name						
4	Audio	Amplifiers/PreAmps/Tuners	AM / FM Stereo Tuner	Quantity	339	371	302	218	3,548
5				Returns	31	37	29	20	344
6				Revenue	\$67,461.00	\$73,829.00	\$60,998.00	\$43,382.00	\$706,052.00
7				Cost of Goods Sold	\$33,900.00	\$37,100.00	\$30,200.00	\$21,800.00	\$354,800.00
8				Profit	\$33,561	\$36,729	\$29,898	\$21,582	\$351,252
9	Audio	Amplifiers/PreAmps/Tuners	Modular Components Series Preamp 5.1	Quantity	1,953	904	800	502	11,822
10				Returns	187	89	79	49	1,210
11				Revenue	\$779,247.00	\$360,696.00	\$319,200.00	\$200,298.00	\$4,716,978.00
12				Cost of Goods Sold	\$644,490.00	\$298,320.00	\$264,000.00	\$165,660.00	\$3,901,260.00
13				Profit	\$134,757	\$62,376	\$55,200	\$34,638	\$815,718
14	Audio	Amplifiers/PreAmps/Tuners	PA4000 Stereo & Surround Power Amplifier	Quantity	1,780	528	715	385	11,864
15				Returns	172	52	68	36	1,237
16				Revenue	\$532,220.00	\$157,872.00	\$213,785.00	\$115,115.00	\$3,547,336.00
17				Cost of Goods Sold	\$391,600.00	\$116,160.00	\$157,300.00	\$84,700.00	\$2,610,080.00
18				Profit	\$140,620	\$41,712	\$56,485	\$30,415	\$937,256
19	Audio	Amplifiers/PreAmps/Tuners	Power Amplifier	Quantity	3,220	1,058	1,251	1,159	17,877
20				Returns	315	102	122	110	2,001
21				Revenue	\$801,780.00	\$263,442.00	\$311,499.00	\$288,591.00	\$4,451,373.00
22				Cost of Goods Sold	\$579,600.00	\$190,440.00	\$225,180.00	\$208,620.00	\$3,217,860.00
23				Profit	\$222,180	\$73,002	\$86,319	\$79,971	\$1,233,513
24	Audio	Amplifiers/PreAmps/Tuners	PreAmp/Tuner Two	Quantity	5,763	2,100	3,074	2,836	35,053
25				Returns	561	202	299	276	3,728
26				Revenue	\$2,875,737.00	\$1,047,900.00	\$1,533,926.00	\$1,415,164.00	\$17,491,447.00
27				Cost of Goods Sold	\$1,440,750.00	\$525,000.00	\$768,500.00	\$709,000.00	\$8,763,250.00
28				Profit	\$1,434,987	\$522,900	\$765,426	\$706,164	\$8,728,197
29	Audio	Audio Systems	Home Theater Surround System	Quantity	782	118	200	269	7,524
30				Returns	75	11	20	25	738
31				Revenue	\$781,218.00	\$117,882.00	\$199,800.00	\$268,731.00	\$7,516,476.00
32				Cost of Goods Sold	\$586,500.00	\$88,500.00	\$150,000.00	\$201,750.00	\$5,643,000.00
33				Profit	\$194,718	\$29,382	\$49,800	\$66,981	\$1,873,476

Figure 14: The report results show the new theme.

In fact, as a report developer, you can select a default theme for all report definitions that you create. This will eliminate the need to select your preferred theme for every report you create. To change the default theme, click on the IA icon at the top left of the tool bar and click the Options button. At the Options dialog window, click the Browse button next to Document Theme. This is demonstrated in Figure 15: Change the default theme..

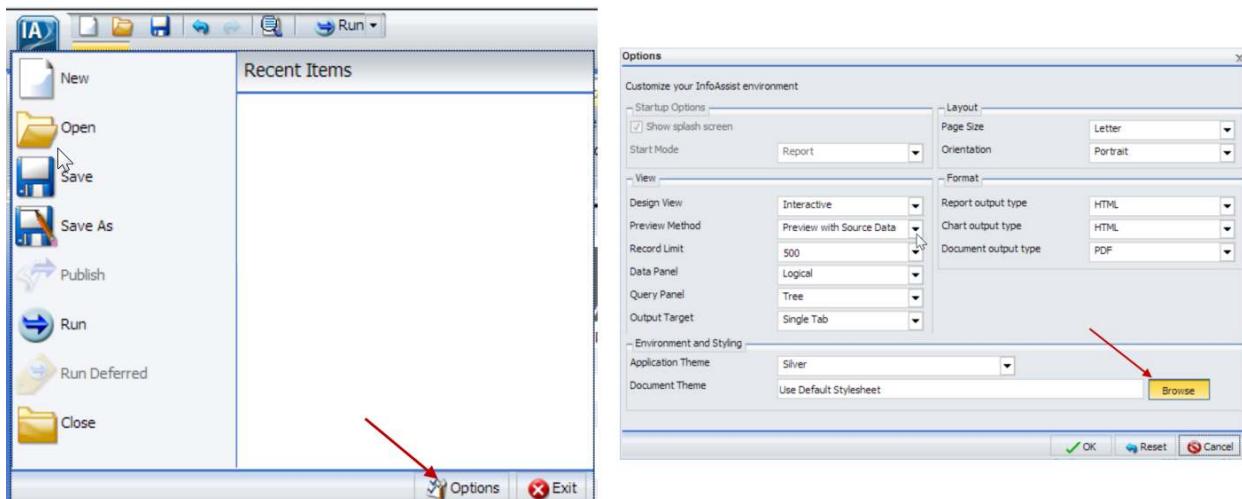


Figure 15: Change the default theme.

You can select your default theme from the same list of style sheets.

## Got DB2 Web Query?

If you don't have DB2 Web Query and aren't sure how you can get it, work with your IBM representative or authorized Business Partner to obtain the software. If you own Query/400 but were never shipped the Version

1 DB2 Web Query product, and are at V6R1 or higher OS level, you can order the Express Edition of DB2 Web Query at no charge. This will give you the entry-level package (which includes InfoAssist and all the features covered in this article) as well as features such Active Reports, OLAP, and DB2 Web Query mobile support. You can also download a 70-day trial of Version 2 from the IBM ESS Web site. Refer to the FAQ document at [www.ibm.com/systems/i/db2/webquery](http://www.ibm.com/systems/i/db2/webquery) for details.

## Summary

DB2 Web Query has many features and shortcuts that you can use to easily generate Excel spreadsheet the way you want them. In fact, this is only part one of a three-part article on DB2 Web Query tips for Excel. In my next TechTip, I'll show you how DB2 Web Query features like Table of Contents, Compound Documents, Excel with Formula, and Pivot Tables can be used to achieve your Excel reporting requirements.