



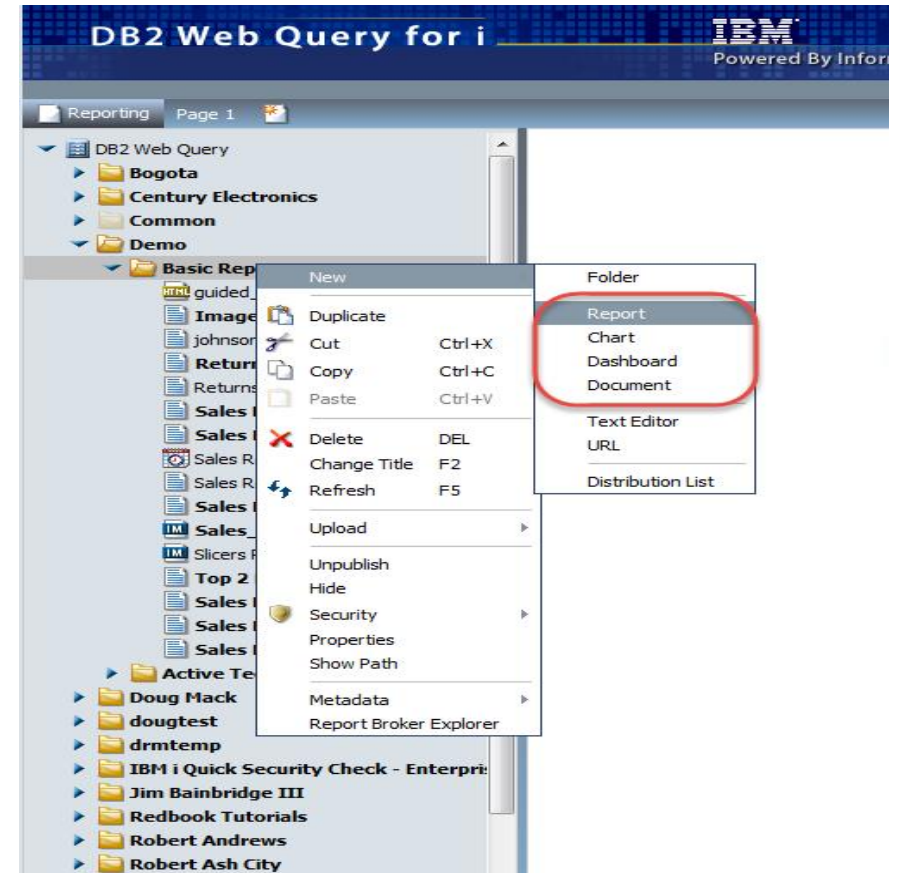
# From Query/400 to Dashboards with DB2 Web Query

Doug Mack  
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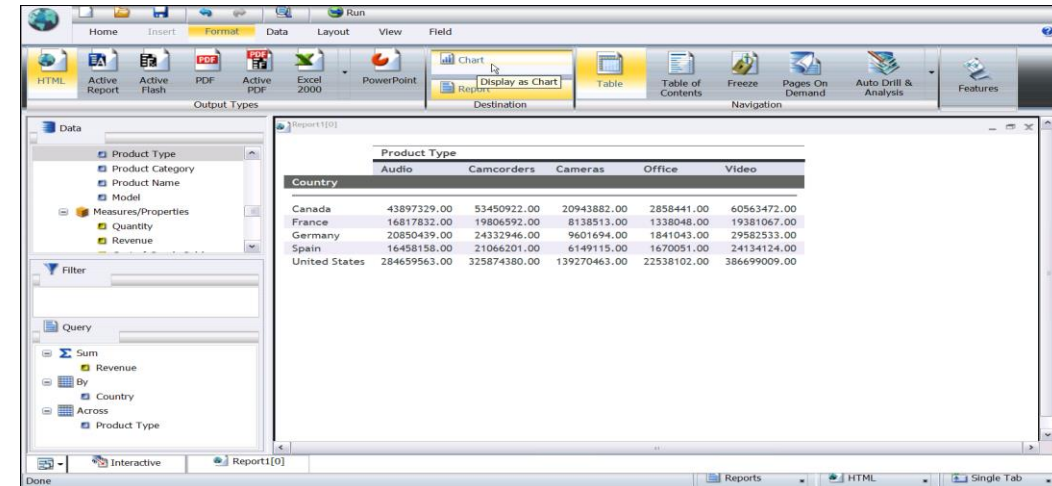
## IBM DB2 Web Query for i User Interface

- The jumping off point for working with DB2 Web Query
  - BI Portal – the End User Standard Interface
    - Run Reports
    - Edit Reports
    - Schedule Report
    - Work with folders
    - Work with Change Management
    - Sync reports via Mobile Favorites Folder
    - Set up Security
    - Build a personal Dashboard
  - InfoAssist – Report Authoring Tool invoked with right-click and NEW at the folder level or with right-click EDIT at report level



## Build/Edit Reports and Dashboards with InfoAssist

- Web based Report Authoring component (built into Express or Standard)
- Invoked from BI Portal (web) or Developer Workbench (Windows)
- Intuitive office-like interface
  - Tool bars (Ribbon) change based on selected tab
- WYSIWYG layout area
- Build reports, charts, graphs, maps, dashboards
- Output types
  - Excel including pivot tables
  - “Active” technologies (good for mobile devices)
  - PDF, File, Print, Database
  - Auto drill down (OLAP) report
  - HTML, HTML5, Flash
  - Powerpoint



# Query/400 to DB2 Web Query

- Imports your existing QRYDFN to DB2 Web Query browser reports
- Can import “all” per Library
- Can still run the green screen version (but why would you?)
- If the green screen version changes, you’d need to re-import
- There ARE some limitations
  - We’ll get to those later

Query . . . : QRYDATXX/REVGPFTRQRY Display Report  
 Position to line . . . : . . .  
 Line . . . . . 1 . . . . . 2 . . . . . 3 . . . . . 4 . . . . . 5 . . . . . 6 . . . . . 7 . . . . . 8 . . . . .

Product Category	Product Type	Revenue	Gross Profit
Amplifiers/PreA	Audio	42,374,428.00	16,634,858.00
Audio Systems	Audio	122,345,680.00	40,062,860.00
CD Players and	Audio	53,847,459.00	16,008,999.00
Digital Cameras	Cameras	184,103,667.00	50,774,837.00
Digital8 Camcor	Camcorders	13,614,953.00	7,102,353.00
DVD	Video	329,872,045.00	81,103,145.00
DVD Camcorders	Camcorders	379,376,637.00	79,003,287.00

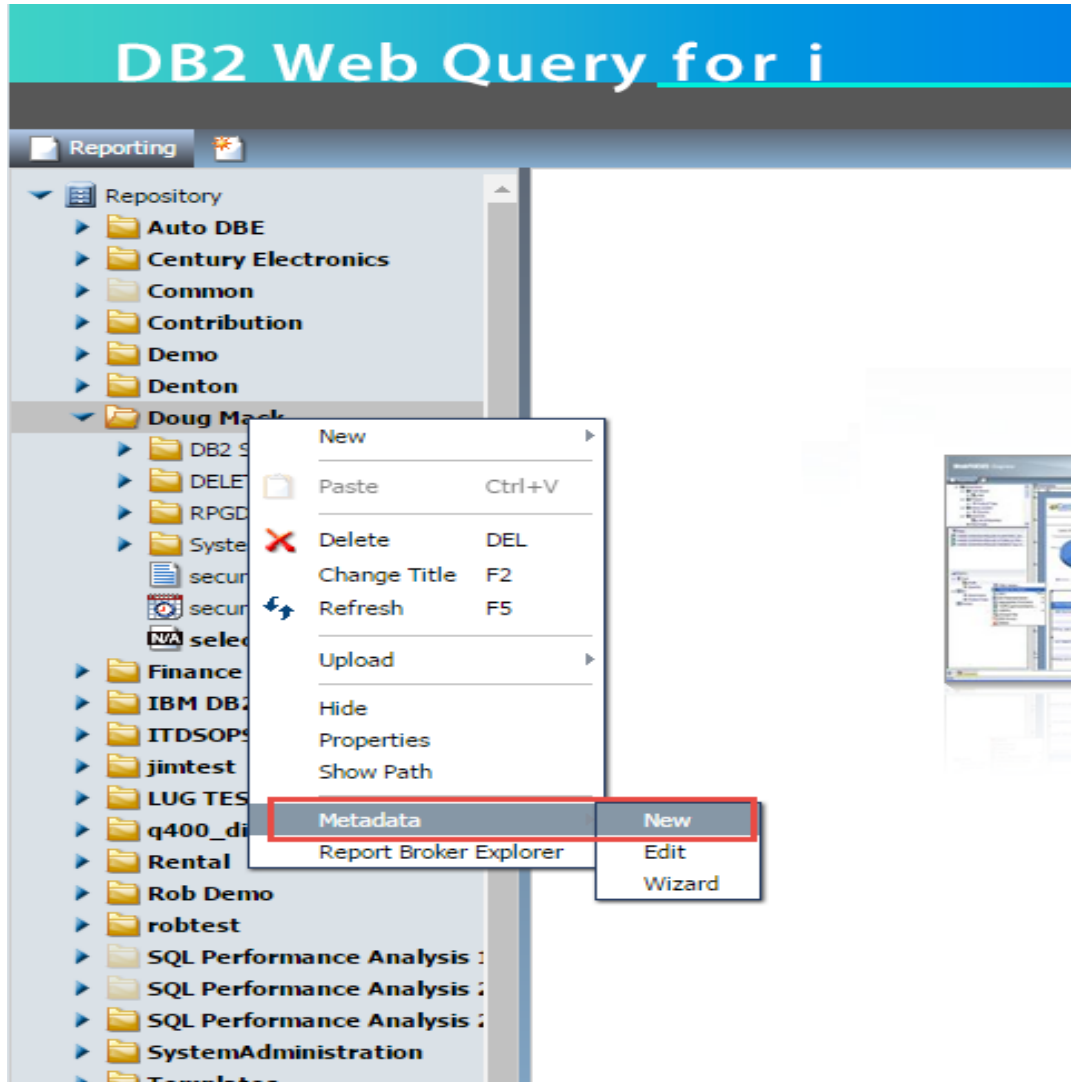
F3=Exit F12=Cancel F19=Left F20= F21=Split F22=Width 80

DB2 Web Query for i IBM  
Powered By Information Builders

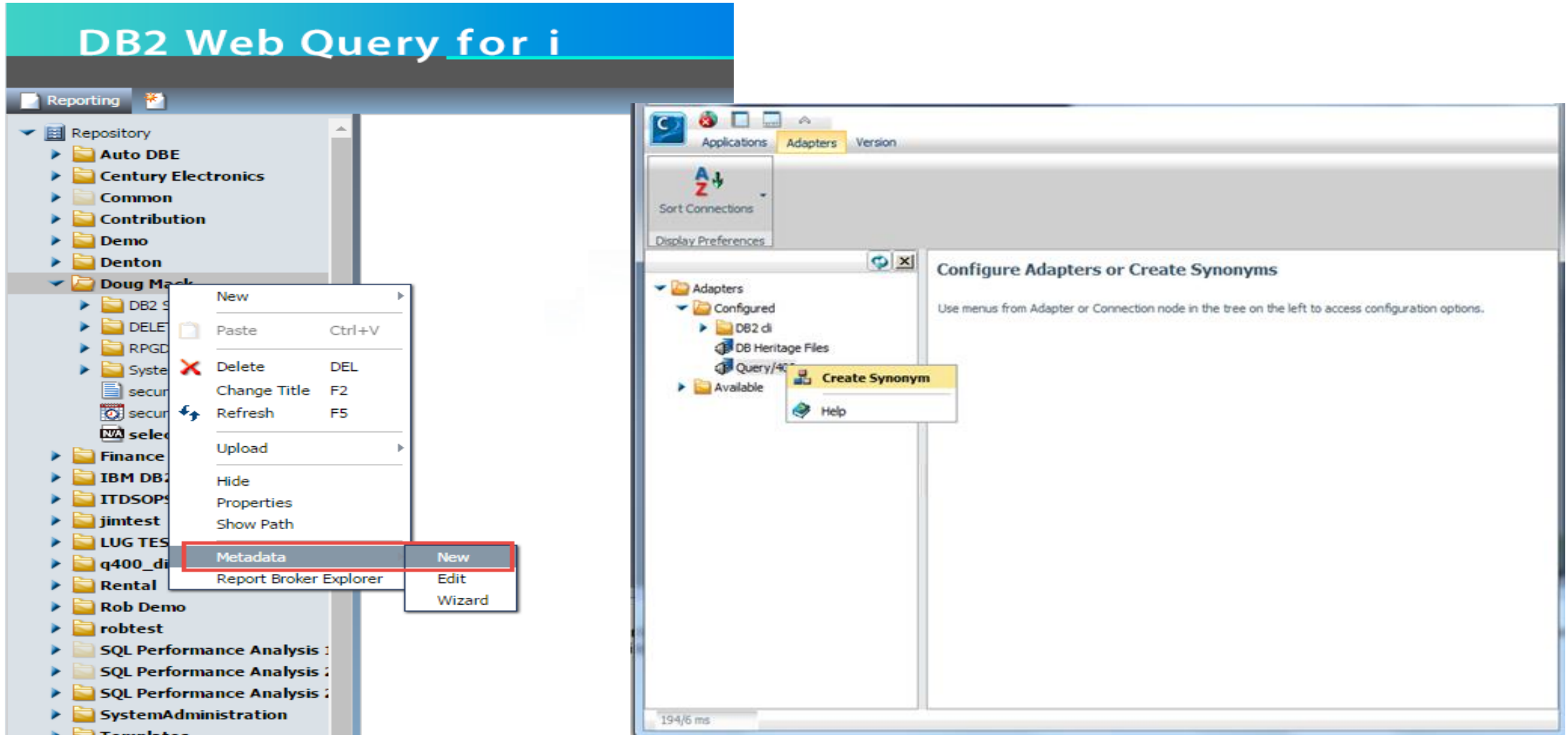
Reporting Sales Report 2012

Product Category	Product Type	Revenue	Gross Profit
Amplifiers/PreA	Audio	42,374,428.00	16,634,858.00
Audio Systems	Audio	122,345,680.00	40,062,860.00
CD Players and	Audio	53,847,459.00	16,008,999.00
Digital Cameras	Cameras	184,103,667.00	50,774,837.00
Digital8 Camcor	Camcorders	13,614,953.00	7,102,353.00
DVD	Video	329,872,045.00	81,103,145.00
DVD Camcorders	Camcorders	379,376,637.00	79,003,287.00
Handheld and PD	Office	18,533,190.00	4,465,770.00
MiniDV Camcorde	Camcorders	51,539,451.00	17,411,091.00
MP3	Audio	43,491,588.00	17,052,928.00
Organizers	Office	11,712,495.00	6,755,190.00
Receivers	Audio	35,907,113.00	12,909,113.00
Speakers	Audio	84,717,053.00	60,036,063.00
TV	Video	168,799,539.00	18,027,839.00
VCR	Video	21,688,621.00	5,417,671.00

# Step 1 is to Create a “Synonym” over the Query/400 definition(s) query



# Step 1 is to Create a “Synonym” over the Query/400 definition(s) query



The screenshot displays the DB2 Web Query for i interface. On the left, a tree view shows a repository structure with folders like 'Auto DBE', 'Century Electronics', and 'Doug Mack'. A context menu is open over the 'q400\_dir' folder, with 'Metadata' selected. A sub-menu is open for 'Metadata', showing 'New', 'Edit', and 'Wizard' options. On the right, the 'Configure Adapters or Create Synonyms' window is visible, showing a tree view with 'Adapters' > 'Configured' > 'DB2 di' > 'Query/400'. A 'Create Synonym' button is highlighted in the 'Query/400' folder.

# Choose which queries to import

## A report is automatically built

Hint: Give the synonym a prefix or suffix so you can later recognize it as a query/400 definition

### Select Synonym candidate for Query/400 Step 2 of 2

Customize data type mappings

Application:  Prefix:  Suffix:

Overwrite existing synonyms  
 Do not save library information

<input type="checkbox"/>	Default Synonym Name	Library Name	File Name	File Description
<input type="checkbox"/>	chainqry1	qwqcent	CHAINQRY1	Example of Query chaining - Qry 1
<input type="checkbox"/>	chainqry2	qwqcent	CHAINQRY2	Example of Query chaining - Qry 2
<input type="checkbox"/>	parmqry1	qwqcent	PARMQRY1	Example Query/400 Parameter Passing
<input checked="" type="checkbox"/>	revgpftqry	qwqcent	REVGPFQRY	Revenue and gross profit query





# Choose which queries to import

## A report is automatically built

Hint: Give the synonym a prefix or suffix so you can later recognize it as a query/400 definition

### Select Synonym candidate for Query/400 Step 2 of 2

Customize data type mappings

Application:  Prefix:  Suffix:

Overwrite existing synonyms  
 Do not save library information

<input type="checkbox"/>	Default Synonym Name	Library Name	File Name	File Description
<input type="checkbox"/>	chainqry1	qwqcent	CHAINQRY1	Example of Query chaining - Qry 1
<input type="checkbox"/>	chainqry2	qwqcent	CHAINQRY2	Example of Query chaining - Qry 2
<input type="checkbox"/>	parmqry1	qwqcent	PARMQRY1	Example Query/4
<input checked="" type="checkbox"/>	revgpftqry	qwqcent	REVGPFQRY	Revenue and gro

- Doug Mack
  - DB2 Services
  - DELETE\_ORDERS\_CLS
  - RPGDB2\_ORDERS\_CLS
  - System, Operating System and
  - revgpftqry\_qry400**
  - secured active report
  - secured active report
  - select info by subsystem
  - Finance
  - IBM DB2 Web Query Informati

Report Automatically Generated

That's COOL!!



# Before and After

Display Report

```

Query . . . : QRYDAT11/REVGPFTRQY
Position to line . . . . .
Line . . . . .1. . . . .2. . . . .3. . . . .4. . . . .5. . . . .6. . . . .7. . . . .8. . . .
Product Category Product Type Revenue Gross Profit
000001 Amplifiers/PreA Audio TOTAL 42,374,428.00 16,634,858.00
000002
000003
000004 Audio Systems Audio TOTAL 122,345,680.00 40,062,860.00
000005
000006
000007 CD Players and Audio TOTAL 53,847,459.00 16,008,999.00
000008
000009
000010 Digital Cameras Cameras TOTAL 184,103,667.00 50,774,837.00
000011
000012
000013 Digital8 Camcor Camcorders TOTAL 13,614,953.00 7,102,353.00
000014
000015
000016 DVD Video TOTAL 329,872,045.00 81,103,145.00
000017
000018
000019 DVD Camcorders Camcorders
    
```

# Before and After

```

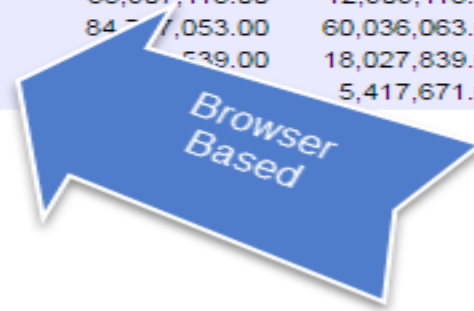
Query . . . : QRYDAT11/REVGPFTRQY
Position to line . . . . .
Line . . . . .1. . . . .2. . . . .3. . . . .4. . . . .5. . . . .
Product Category Product Type Rev
000001 Amplifiers/PreA Audio TOTAL 42,374,428.00
000002
000003
000004 Audio Systems Audio TOTAL 122,345,680.00
000005
000006
000007 CD Players and Audio TOTAL 53,847,459.00
000008
000009
000010 Digital Cameras Cameras TOTAL 184,103,667.00
000011
000012
000013 Digital8 Camcor Camcorders TOTAL 13,614,953.00
000014
000015
000016 DVD Video TOTAL 329,872,045.00
000017
000018
000019 DVD Camcorders Camcorders
    
```

revgpftrqy\_qry400 - Google Chrome

db2icoe3.rchland.ibm.com:12331/webquery/run.bip?BIP\_REQUEST\_TYPE=BIP\_RUN

Product Category	Product Type	Revenue	Gross Profit
Amplifiers/PreA	Audio	42,374,428.00	16,634,858.00
Audio Systems	Audio	122,345,680.00	40,062,860.00
CD Players and	Audio	53,847,459.00	16,008,999.00
Digital Cameras	Cameras	184,103,667.00	50,774,837.00
Digital8 Camcor	Camcorders	13,614,953.00	7,102,353.00
DVD	Video	329,872,045.00	81,103,145.00
DVD Camcorders	Camcorders	379,376,637.00	79,003,287.00
Handheld and PD	Office	18,533,190.00	4,465,770.00
MiniDV Camcorde	Camcorders	51,539,451.00	17,411,091.00
MP3	Audio	43,491,588.00	17,052,928.00
Organizers	Office	11,712,495.00	6,755,190.00
Receivers	Audio	35,907,113.00	12,909,113.00
Speakers	Audio	84,770,053.00	60,036,063.00
TV	Video	18,027,839.00	5,417,671.00
VCR	Video		

(but we're not done)



# Enhance the Query/400 Definition

- Format the report
  - Add a header, footer, stylesheet, traffic light
- Change the output
  - Push the result set into a spreadsheet or build an “active” report
- Add a prompt for user controlled record selection
- Add the report to a dashboard
- Schedule the report to run automatically and send it out in an email

Parameters

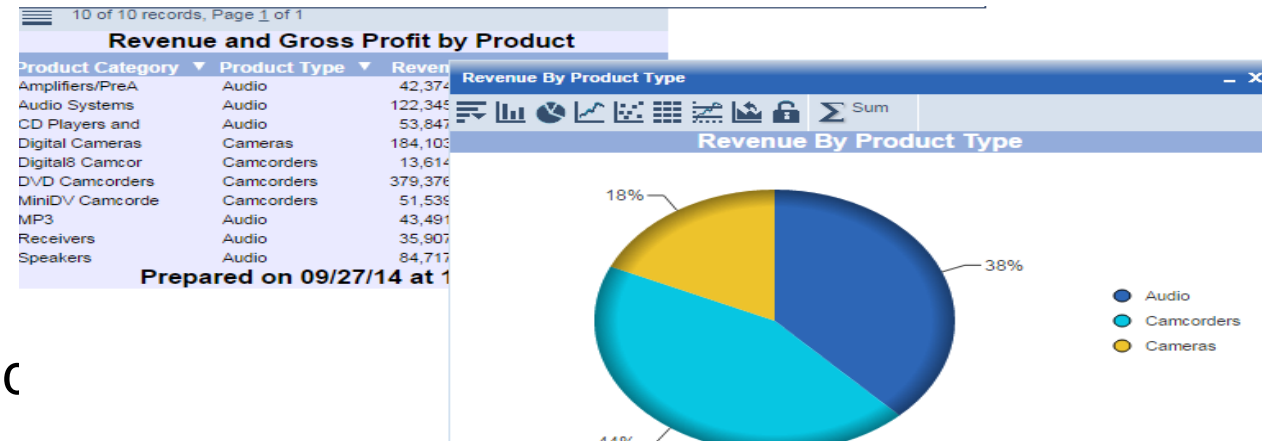
Select Product Type

No Selection  
Audio  
Camcorders  
Cameras

Run Reset

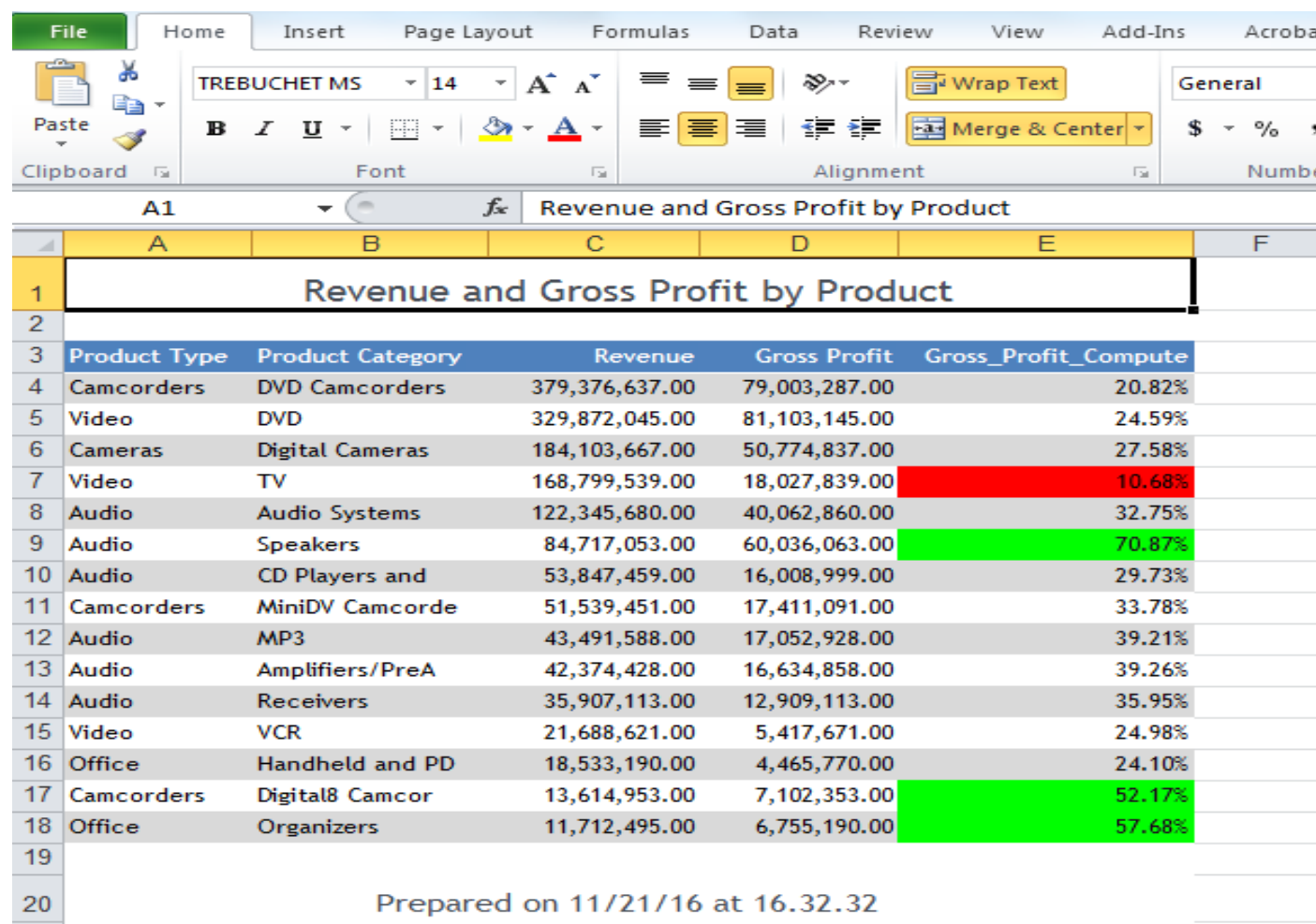
Product Category	Product Type	Revenue	Gross Profit
Amplifiers/PreA	Audio	42,374,428.00	16,634,858.00
Audio Systems	Audio	122,345,680.00	40,062,860.00
CD Players and	Audio	53,847,459.00	16,008,999.00
Digital Cameras	Cameras	184,103,667.00	50,774,837.00
Digital8 Camcor	Camcorders	13,614,953.00	7,102,353.00
DVD Camcorders	Camcorders	379,376,637.00	79,003,287.00
MiniDV Camcorde	Camcorders	51,539,451.00	17,411,091.00
MP3	Audio	43,491,588.00	17,052,928.00
Receivers	Audio	35,907,113.00	12,909,113.00
Speakers	Audio	84,717,053.00	60,036,063.00

Prepared on 09/27/14 at 12.44.43



# No More Green Screen

- Changed the look of the report
- Added Report Header and Footer
- Sorted by Revenue
- Created new calculated field for %Gross Profit
  - Can easily spot that bottom two products are high margin but low revenue – why aren't we selling more?
- Changed the output to allow the end user to run this query on their own and put the results in a spreadsheet
- Made Product Type a parameter
- Moved Product Type column to the left of Product Category

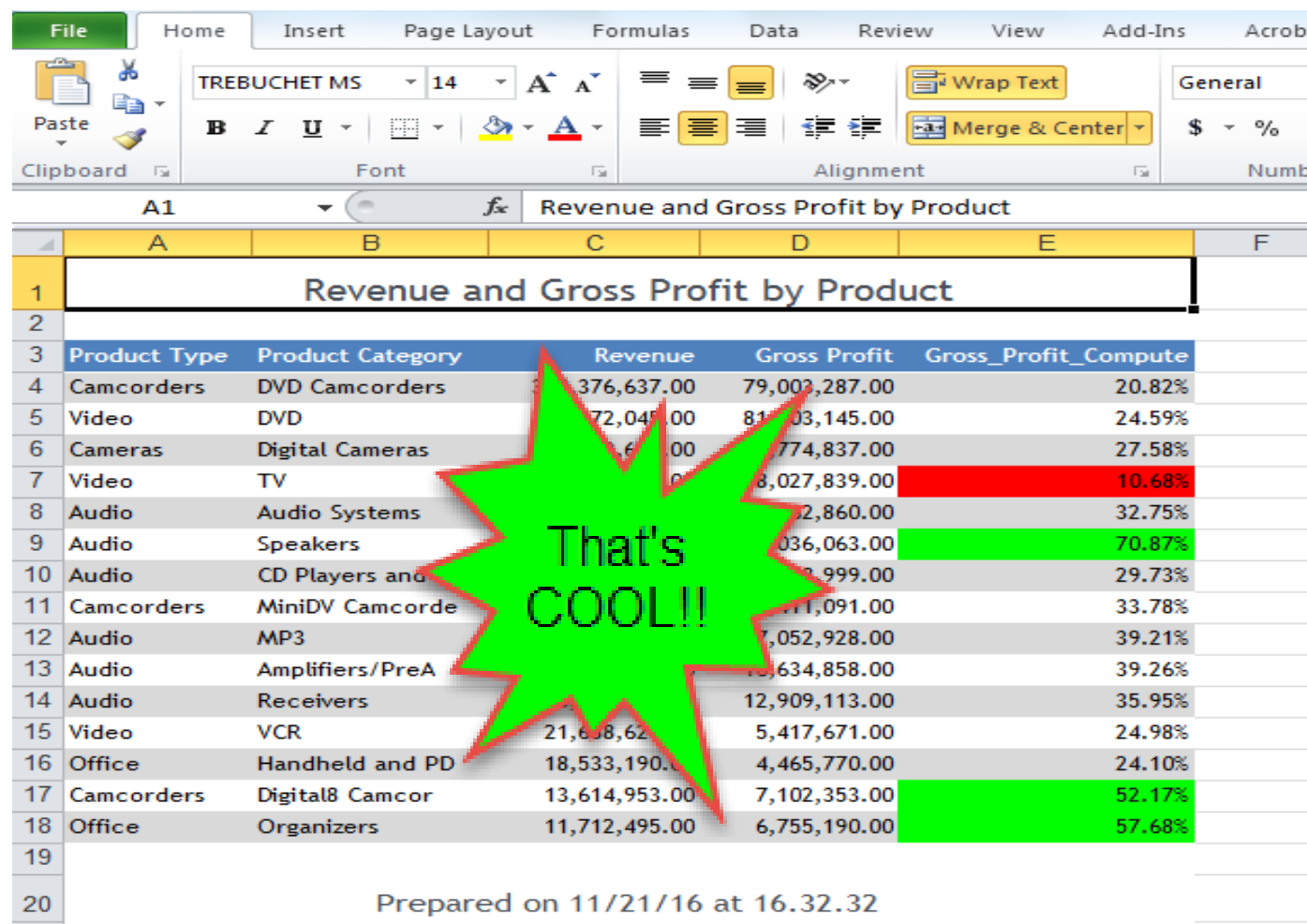


Revenue and Gross Profit by Product					
Product Type	Product Category	Revenue	Gross Profit	Gross_Profit_Compute	
Camcorders	DVD Camcorders	379,376,637.00	79,003,287.00	20.82%	
Video	DVD	329,872,045.00	81,103,145.00	24.59%	
Cameras	Digital Cameras	184,103,667.00	50,774,837.00	27.58%	
Video	TV	168,799,539.00	18,027,839.00	10.68%	
Audio	Audio Systems	122,345,680.00	40,062,860.00	32.75%	
Audio	Speakers	84,717,053.00	60,036,063.00	70.87%	
Audio	CD Players and	53,847,459.00	16,008,999.00	29.73%	
Camcorders	MiniDV Camcorde	51,539,451.00	17,411,091.00	33.78%	
Audio	MP3	43,491,588.00	17,052,928.00	39.21%	
Audio	Amplifiers/PreA	42,374,428.00	16,634,858.00	39.26%	
Audio	Receivers	35,907,113.00	12,909,113.00	35.95%	
Video	VCR	21,688,621.00	5,417,671.00	24.98%	
Office	Handheld and PD	18,533,190.00	4,465,770.00	24.10%	
Camcorders	Digital8 Camcor	13,614,953.00	7,102,353.00	52.17%	
Office	Organizers	11,712,495.00	6,755,190.00	57.68%	

Prepared on 11/21/16 at 16.32.32

# No More Green Screen

- Changed the look of the report
- Added Report Header and Footer
- Sorted by Revenue
- Created new calculated field for %Gross Profit
- Added traffic lighting to that new field
  - Can easily spot that bottom two products are high margin but low revenue – why aren't we selling more?
- Changed the output to allow the end user to run this query on their own and put the results in a spreadsheet
- Made Product Type a parameter
- Moved Product Type column to the left of Product Category



Product Type	Product Category	Revenue	Gross Profit	Gross_Profit_Compute
Camcorders	DVD Camcorders	376,637.00	79,003,287.00	20.82%
Video	DVD	72,045.00	81,003,145.00	24.59%
Cameras	Digital Cameras	6,000.00	774,837.00	27.58%
Video	TV	0.00	8,027,839.00	10.68%
Audio	Audio Systems	0.00	2,860.00	32.75%
Audio	Speakers	0.00	36,063.00	70.87%
Audio	CD Players and	0.00	999.00	29.73%
Camcorders	MiniDV Camcorde	0.00	1,091.00	33.78%
Audio	MP3	0.00	52,928.00	39.21%
Audio	Amplifiers/PreA	0.00	634,858.00	39.26%
Audio	Receivers	0.00	12,909,113.00	35.95%
Video	VCR	21,638,620.00	5,417,671.00	24.98%
Office	Handheld and PD	18,533,190.00	4,465,770.00	24.10%
Camcorders	Digital8 Camcor	13,614,953.00	7,102,353.00	52.17%
Office	Organizers	11,712,495.00	6,755,190.00	57.68%

Prepared on 11/21/16 at 16.32.32

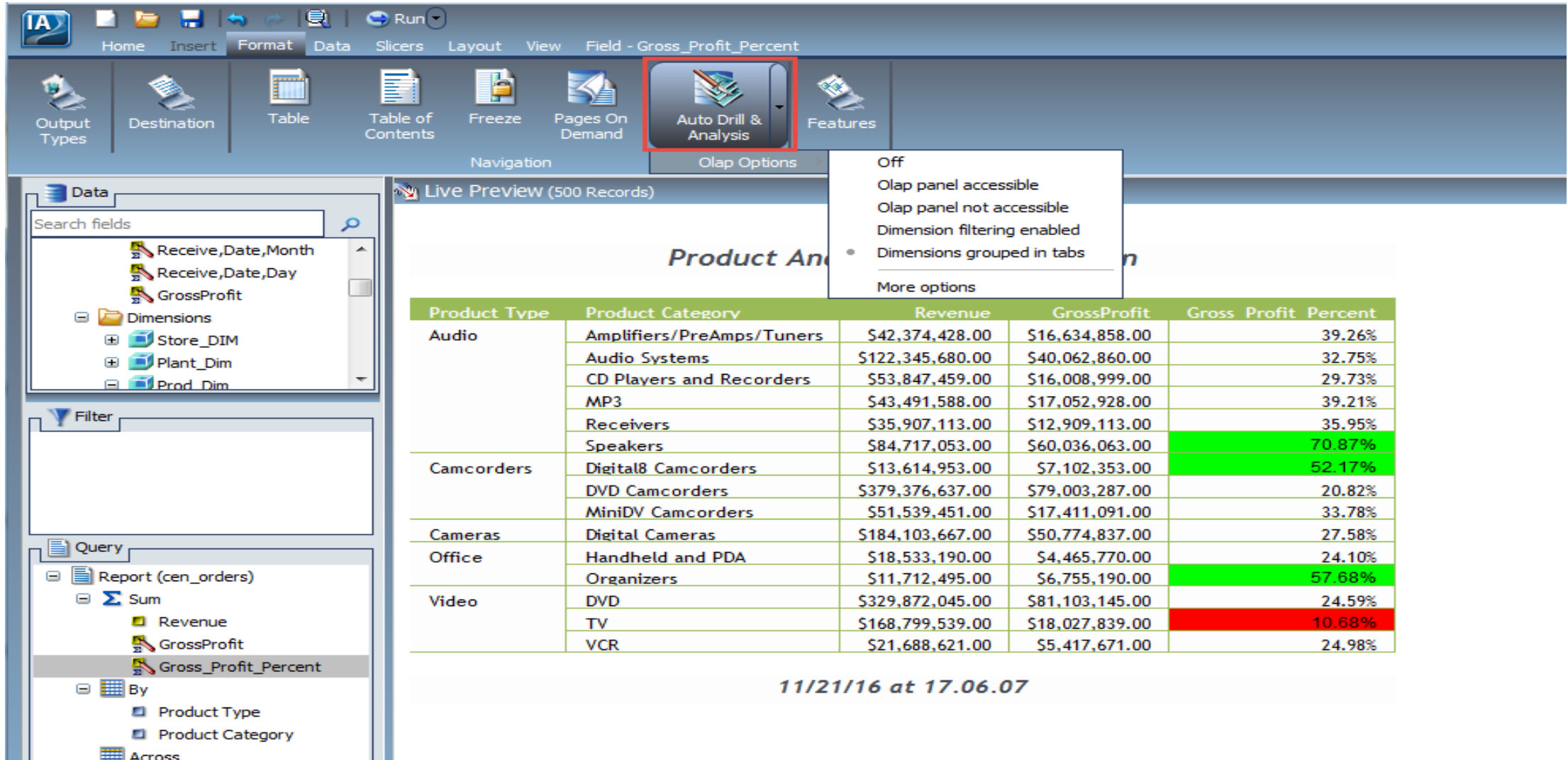


## Now Let's Talk about those Limitations

- Chained Queries – probably require some analysis and re-write because either you don't NEED to chain the queries because of more powerful function in DB2 Web Query or there is a better way
- Pre 7.2 it uses the older DB2 query engine, and likely even at 7.2 or 7.3
  - Poorer performance than a native SQL Query that DB2 Web Query generates
- Fields available to you to add to the report are limited to the original fields defined in the Query/400 definition
- And think about this – if you have 1000 Query/400 definitions where there is a lot of redundancy or even ones that are obsolete – this is your chance to clean this up and consolidate
- IBM has some tools to you help you too
- But here's an example:



# Build That Same Report from Scratch and make it “Auto Drill”



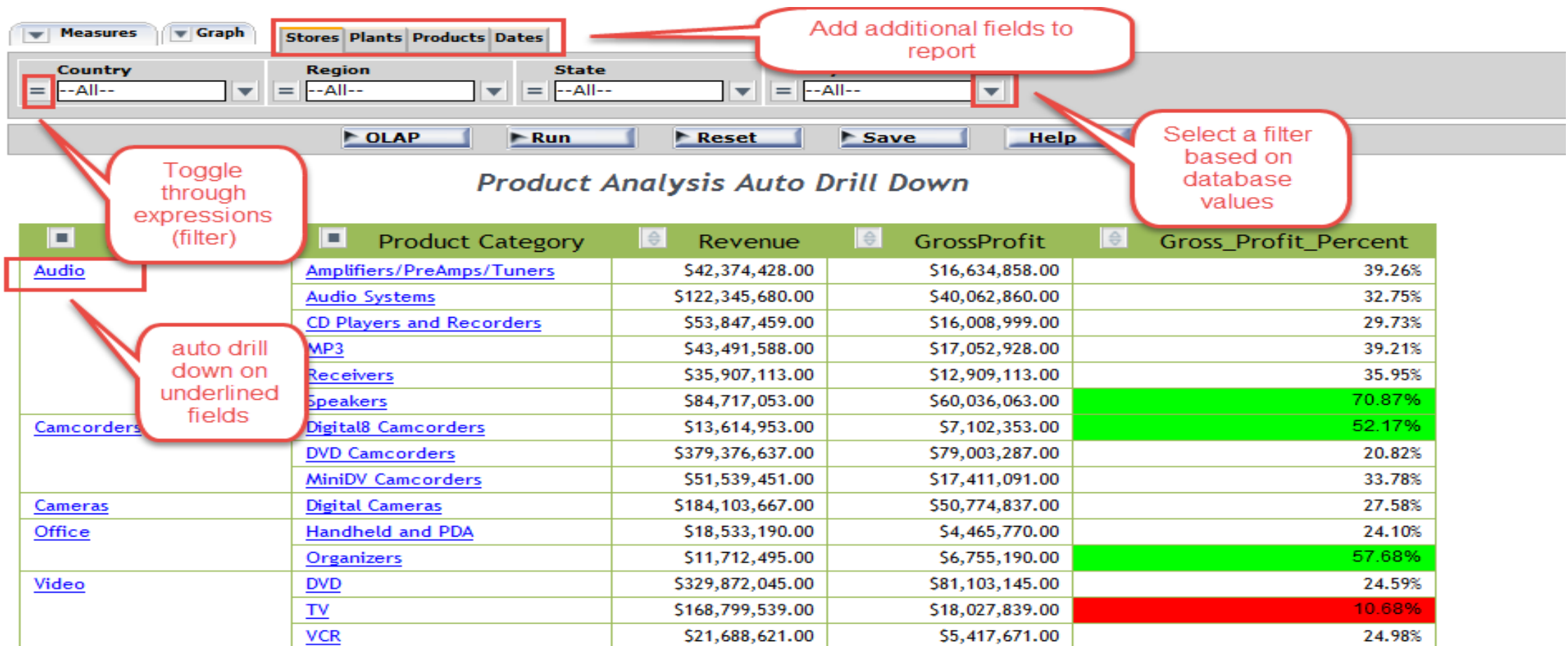
The screenshot shows the IBM Cognos Analytics interface. The ribbon includes 'Auto Drill & Analysis', which is highlighted with a red box. A dropdown menu is open, showing options: 'Off', 'Olap panel accessible', 'Olap panel not accessible', 'Dimension filtering enabled', 'Dimensions grouped in tabs', and 'More options'. The main area displays a pivot table titled 'Product Analysis' with columns: Product Type, Product Category, Revenue, GrossProfit, and Gross Profit Percent. The table data is as follows:

Product Type	Product Category	Revenue	GrossProfit	Gross Profit Percent
Audio	Amplifiers/PreAmps/Tuners	\$42,374,428.00	\$16,634,858.00	39.26%
	Audio Systems	\$122,345,680.00	\$40,062,860.00	32.75%
	CD Players and Recorders	\$53,847,459.00	\$16,008,999.00	29.73%
	MP3	\$43,491,588.00	\$17,052,928.00	39.21%
	Receivers	\$35,907,113.00	\$12,909,113.00	35.95%
	Speakers	\$84,717,053.00	\$60,036,063.00	70.87%
Camcorders	Digital8 Camcorders	\$13,614,953.00	\$7,102,353.00	52.17%
	DVD Camcorders	\$379,376,637.00	\$79,003,287.00	20.82%
	MiniDV Camcorders	\$51,539,451.00	\$17,411,091.00	33.78%
Cameras	Digital Cameras	\$184,103,667.00	\$50,774,837.00	27.58%
Office	Handheld and PDA	\$18,533,190.00	\$4,465,770.00	24.10%
	Organizers	\$11,712,495.00	\$6,755,190.00	57.68%
Video	DVD	\$329,872,045.00	\$81,103,145.00	24.59%
	TV	\$168,799,539.00	\$18,027,839.00	10.68%
	VCR	\$21,688,621.00	\$5,417,671.00	24.98%

11/21/16 at 17.06.07



Now the end user can iterate through the data – with a single report



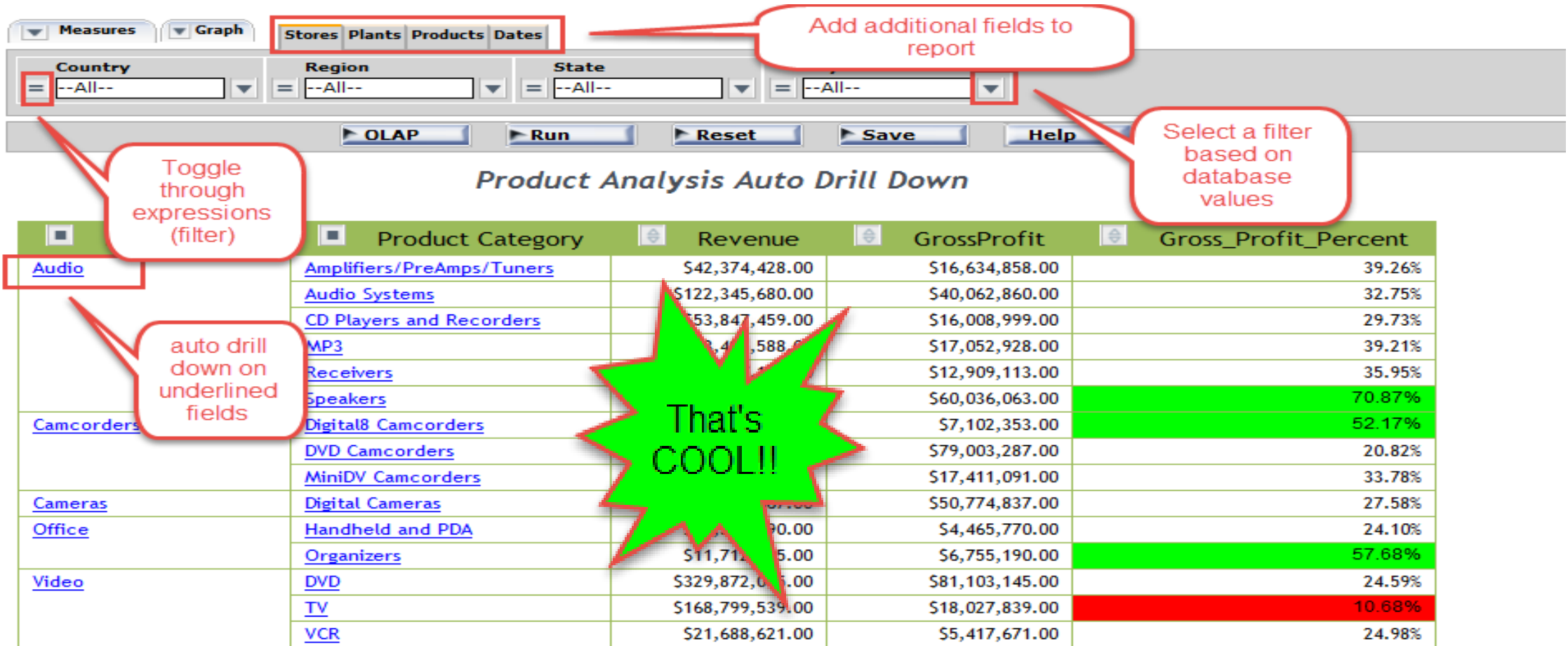
The screenshot shows a BI tool interface with the following components:

- Measures and Graph:** Includes tabs for 'Stores', 'Plants', 'Products', and 'Dates'.
- Filters:** 'Country', 'Region', and 'State' dropdown menus, all currently set to '--All--'.
- Buttons:** 'OLAP', 'Run', 'Reset', 'Save', and 'Help'.
- Table:** Titled 'Product Analysis Auto Drill Down', with columns: Product Category, Revenue, GrossProfit, and Gross\_Profit\_Percent.
- Callouts:**
  - 'Add additional fields to report' points to the 'Stores', 'Plants', 'Products', and 'Dates' tabs.
  - 'Select a filter based on database values' points to the 'Country', 'Region', and 'State' dropdowns.
  - 'Toggle through expressions (filter)' points to the equals sign icon next to the 'Country' dropdown.
  - 'auto drill down on underlined fields' points to the underlined product categories in the table.

	Product Category	Revenue	GrossProfit	Gross_Profit_Percent
<u>Audio</u>	<u>Amplifiers/PreAmps/Tuners</u>	\$42,374,428.00	\$16,634,858.00	39.26%
	<u>Audio Systems</u>	\$122,345,680.00	\$40,062,860.00	32.75%
	<u>CD Players and Recorders</u>	\$53,847,459.00	\$16,008,999.00	29.73%
	<u>MP3</u>	\$43,491,588.00	\$17,052,928.00	39.21%
	<u>Receivers</u>	\$35,907,113.00	\$12,909,113.00	35.95%
	<u>Speakers</u>	\$84,717,053.00	\$60,036,063.00	70.87%
<u>Camcorders</u>	<u>Digital8 Camcorders</u>	\$13,614,953.00	\$7,102,353.00	52.17%
	<u>DVD Camcorders</u>	\$379,376,637.00	\$79,003,287.00	20.82%
	<u>MiniDV Camcorders</u>	\$51,539,451.00	\$17,411,091.00	33.78%
<u>Cameras</u>	<u>Digital Cameras</u>	\$184,103,667.00	\$50,774,837.00	27.58%
<u>Office</u>	<u>Handheld and PDA</u>	\$18,533,190.00	\$4,465,770.00	24.10%
	<u>Organizers</u>	\$11,712,495.00	\$6,755,190.00	57.68%
<u>Video</u>	<u>DVD</u>	\$329,872,045.00	\$81,103,145.00	24.59%
	<u>TV</u>	\$168,799,539.00	\$18,027,839.00	10.68%
	<u>VCR</u>	\$21,688,621.00	\$5,417,671.00	24.98%

11/21/16 at 17.07.50

Now the end user can iterate through the data – with a single report



**Product Analysis Auto Drill Down**

Product Category	Revenue	GrossProfit	Gross_Profit_Percent
<u>Audio</u>			
Amplifiers/PreAmps/Tuners	\$42,374,428.00	\$16,634,858.00	39.26%
Audio Systems	\$122,345,680.00	\$40,062,860.00	32.75%
CD Players and Recorders	\$53,847,459.00	\$16,008,999.00	29.73%
MP3	\$17,412,588.00	\$17,052,928.00	39.21%
Receivers		\$12,909,113.00	35.95%
Speakers		\$60,036,063.00	70.87%
<u>Camcorders</u>			
Digital8 Camcorders		\$7,102,353.00	52.17%
DVD Camcorders		\$79,003,287.00	20.82%
MiniDV Camcorders		\$17,411,091.00	33.78%
<u>Cameras</u>			
Digital Cameras		\$50,774,837.00	27.58%
<u>Office</u>			
Handheld and PDA		\$4,465,770.00	24.10%
Organizers	\$11,712,155.00	\$6,755,190.00	57.68%
<u>Video</u>			
DVD	\$329,872,055.00	\$81,103,145.00	24.59%
TV	\$168,799,539.00	\$18,027,839.00	10.68%
VCR	\$21,688,621.00	\$5,417,671.00	24.98%

**That's COOL!!**

11/21/16 at 17.07.50

## End Users Can (without needing another report):

- Drill down on just Audio products

*Product Analysis Auto Drill Down*

Product Category	Revenue	GrossProfit	Gross_Profit_Percent
<a href="#">Amplifiers/PreAmps/Tuners</a>	\$42,374,428.00	\$16,634,858.00	39.26%
<a href="#">Audio Systems</a>	\$122,345,680.00	\$40,062,860.00	32.75%
<a href="#">CD Players and Recorders</a>	\$53,847,459.00	\$16,008,999.00	29.73%
<a href="#">MP3</a>	\$43,491,588.00	\$17,052,928.00	39.21%
<a href="#">Receivers</a>	\$35,907,113.00	\$12,909,113.00	35.95%
<a href="#">Speakers</a>	\$84,717,053.00	\$60,036,063.00	70.87%

11/21/16 at 17.07.50

## End Users Can (without needing another report):

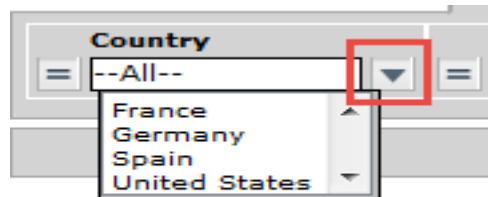
- Drill down on just Audio products

*Product Analysis Auto Drill Down*

Product Category	Revenue	GrossProfit	Gross_Profit_Percent
<a href="#">Amplifiers/PreAmps/Tuners</a>	\$42,374,428.00	\$16,634,858.00	39.26%
<a href="#">Audio Systems</a>	\$122,345,680.00	\$40,062,860.00	32.75%
<a href="#">CD Players and Recorders</a>	\$53,847,459.00	\$16,008,999.00	29.73%
<a href="#">MP3</a>	\$43,491,588.00	\$17,052,928.00	39.21%
<a href="#">Receivers</a>	\$35,907,113.00	\$12,909,113.00	35.95%
<a href="#">Speakers</a>	\$84,717,053.00	\$60,036,063.00	70.87%

11/21/16 at 17.07.50

- Filter on United States and add REGION column to report



*Product Analysis Auto Drill Down*

Product Category	Region	Revenue	GrossProfit	Gross_Profit_Percent
<a href="#">Amplifiers/PreAmps/Tuners</a>	<a href="#">East North Central</a>	\$3,974,952.00	\$1,514,022.00	38.09%
	<a href="#">East South Central</a>	\$632,123.00	\$250,993.00	39.71%
	<a href="#">Middle Atlantic</a>	\$5,705,544.00	\$2,093,194.00	36.69%
	<a href="#">Mountain</a>	\$533,446.00	\$249,406.00	46.75%
	<a href="#">New England</a>	\$3,236,812.00	\$1,256,092.00	38.81%
	<a href="#">North</a>	\$883,561.00	\$344,861.00	39.03%
	<a href="#">Pacific</a>	\$3,034,877.00	\$1,149,057.00	37.86%
	<a href="#">South Atlantic</a>	\$5,855,215.00	\$2,389,245.00	40.81%
	<a href="#">Web(R)</a>	\$4,093,827.00	\$1,572,537.00	38.41%

## End Users Can (without needing another report):

- Look for Trends by adding YEARS across the top (and clean up the report by removing a couple of columns):

*Product Analysis Auto Drill Down*

		Order Date Year	
		2015	2016
Product Category	Region		
<a href="#">Amplifiers/PreAmps/Tuners</a>	<a href="#">East North Central</a>	41.09%	36.13%
	<a href="#">East South Central</a>	38.09%	42.14%
	<a href="#">Middle Atlantic</a>	34.87%	38.85%
	<a href="#">Mountain</a>	43.50%	49.60%
	<a href="#">New England</a>	42.12%	35.44%
	<a href="#">North</a>	37.44%	39.41%
	<a href="#">Pacific</a>	36.03%	39.23%
	<a href="#">South Atlantic</a>	41.86%	40.01%
	<a href="#">Web(R)</a>	39.88%	37.15%
	<a href="#">West North Central</a>	49.87%	17.29%
<a href="#">West South Central</a>	41.12%	42.16%	

## End Users Can (without needing another report):

- Look for Trends by adding YEARS across the top (and clean up the report by removing a couple of columns):

*Product Analysis Auto Drill Down*

Product Category	Region	Order Date Year	
		2015	2016
Amplifiers/PreAmps/Tuners	East North Central	41.09%	36.13%
	East South Central	38.09%	42.14%
	Middle Atlantic	34.87%	38.85%
	Mountain	43.50%	49.60%
	New England	42.12%	35.44%
	North	37.44%	39.41%
	Pacific	36.03%	39.23%
	South Atlantic	41.86%	40.01%
	Web(R)	39.88%	37.15%
	West North Central	49.87%	17.29%
	West South Central	41.12%	42.16%

**Dimensions-Click a Box to Add**

- Stores
- Plants
- Products
  - Product Type Values
  - Product Category Values
  - Model Values

Shift Up ↑ × Remove  
Shift Down ↓ ↻ Pivot

**Drill Down**

- Product Category ↑
- Region ↑

% ≡ ↓ ↑

**Drill Across**

- Order Date Year ←

**Measures**

- Revenue
- GrossProfit
- Gross Profit Percent

Stack Measures  
 Show Graph

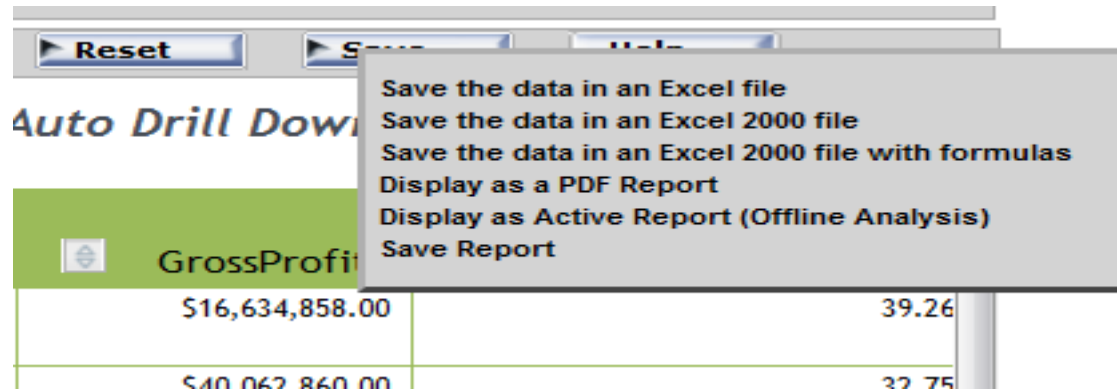
Run Save Help Selection Criteria

- Use Pivot tool to make multiple changes at once:



## End Users Can (without needing another report):

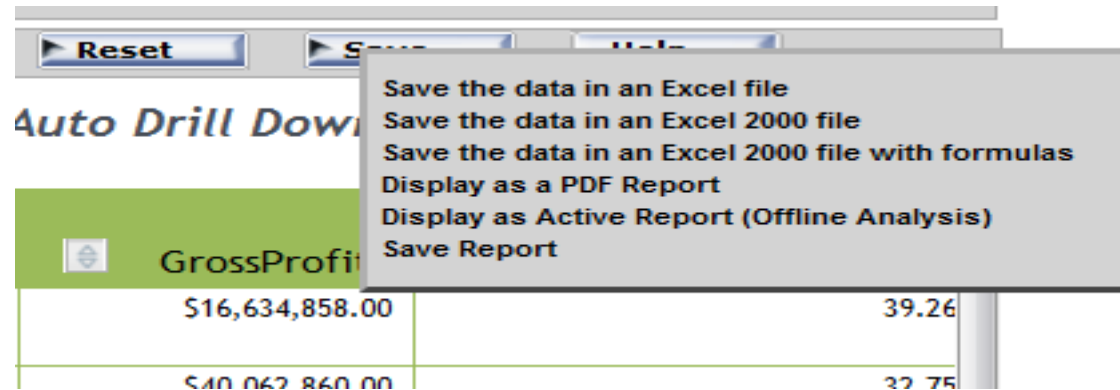
- Slice and Dice through the data
- Save to Excel, or “Active” report
- Save as another report on the BI Portal Tree





## End Users Can (without needing another report):

- Slice and Dice through the data
- Save to Excel, or “Active” report
- Save as another report on the BI Portal Tree



- With this ONE “auto drill” report, you just eliminated at least 20 Query/400 reports (probably more)





## Learning How to Build Reports with InfoAssist

### 1. Get the EZ-Install Package

Includes everything you need to get started with InfoAssist Tutorials

Send email to [QU2@us.ibm.com](mailto:QU2@us.ibm.com) and request it (include s/n)

### 2. Work through the EZ-Install “next steps” at [ibm.biz/db2wqezinstall](http://ibm.biz/db2wqezinstall)

Guides you through what is included and how to use various deliverables in EZ-Install

### 3. Build your first report using above website documents, then pursue the 14 chapters of self-guided Tutorials (link to that same website)

### 4. There are advanced report authoring concepts and tips and techniques not covered in the Tutorials

- \* Get Assistance

- \* Leverage the online Forum and additional documentation



## Building Dashboards

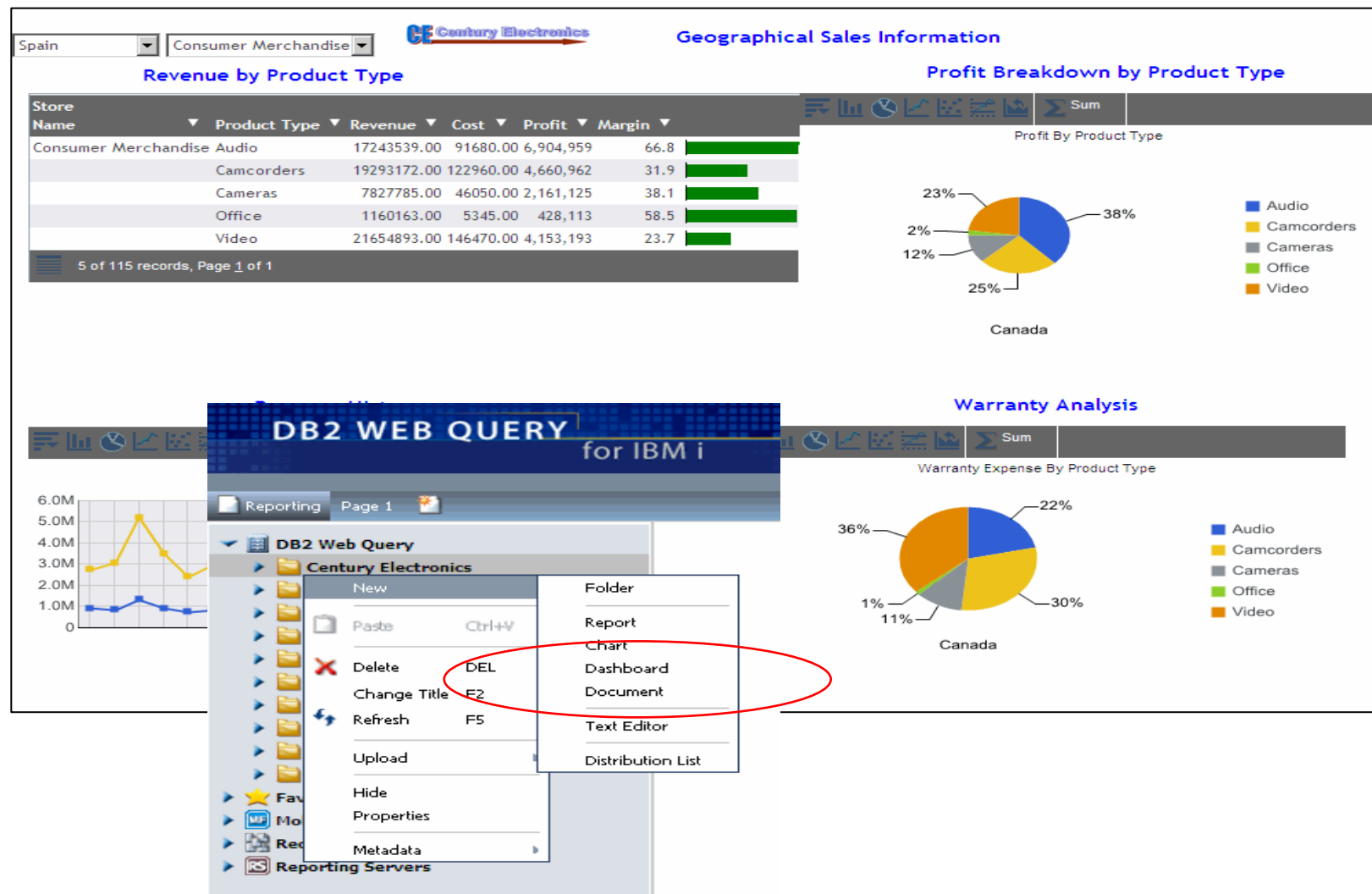
- There are actually multiple ways on build and deploy dashboards, but all have common methodology
  - Build reports first and separately, then place onto dashboard using one of the different layout tools based on requirements
    - Personal Dashboard? Use BI Portal ‘Page’
    - Simple Active Dashboard enabled for Mobile? InfoAssist “create new dashboard”
    - Complex HTML Dashboard? Use Developer Workbench HTML Composer
- Due to time constraints, let’s look at an InfoAssist built “Active” Dashboard

# Mobile Dashboards with “Active Technology” Dashboards

- There may be times where you want multiple controls or do not want EVERY report on the dashboard to be coordinated

- With this technology, the dashboard is in STATIC data format, but you can work with the data in any dashboard

- Open up a new DASHBOARD in InfoAssist



**Geographical Sales Information**

Spain | Consumer Merchandise | Century Electronics

### Revenue by Product Type

Store Name	Product Type	Revenue	Cost	Profit	Margin
Consumer Merchandise	Audio	17243539.00	91680.00	6,904,959	66.8
	Camcorders	19293172.00	122960.00	4,660,962	31.9
	Cameras	7827785.00	46050.00	2,161,125	38.1
	Office	1160163.00	5345.00	428,113	58.5
	Video	21654893.00	146470.00	4,153,193	23.7

5 of 115 records, Page 1 of 1

### Profit Breakdown by Product Type

Profit By Product Type

Canada

Product Type	Percentage
Audio	38%
Camcorders	25%
Cameras	12%
Office	2%
Video	23%

### Warranty Analysis

Warranty Expense By Product Type

Canada

Product Type	Percentage
Audio	22%
Camcorders	30%
Cameras	11%
Office	1%
Video	36%

**DB2 WEB QUERY for IBM i**

Reporting Page 1

DB2 Web Query

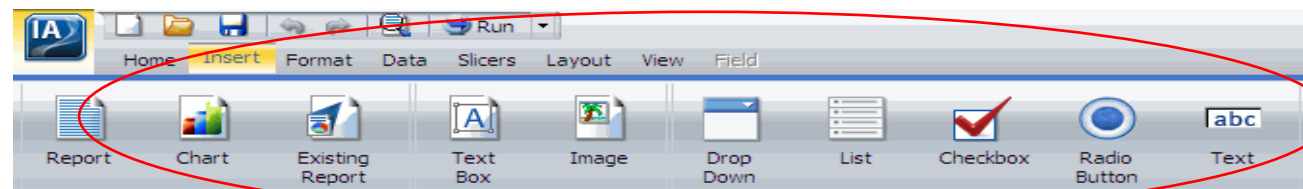
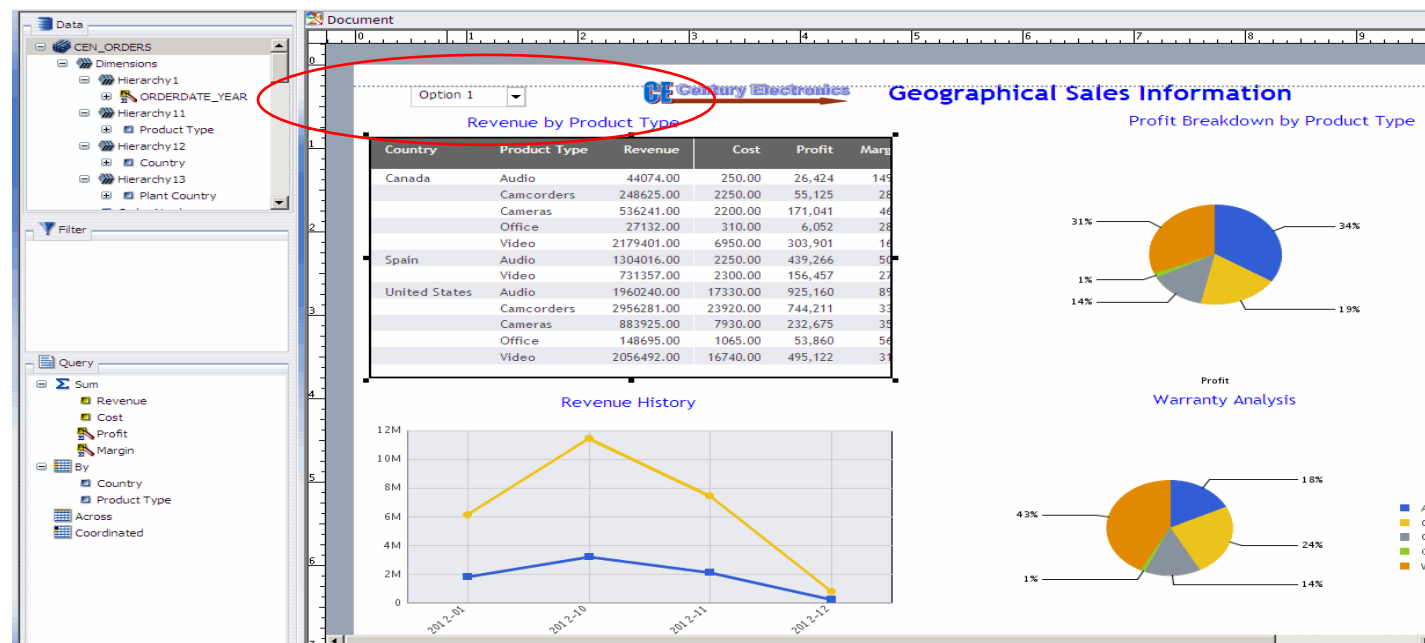
Century Electronics

- New
- Paste Ctrl+W
- Delete DEL
- Change Title F2
- Refresh F5
- Upload
- Hide
- Properties
- Metadata
- Folder
- Report
- Chart
- Dashboard
- Document
- Text Editor
- Distribution List

# InfoAssist “Active” Report: Form Controls

- Make sure you select one of the “Active” technologies
  - Remove coordinated fields if in place

- Select INSERT and note the control options you can add. Select DROP DOWN to add a drop down box and position outside of existing report areas

**Geographical Sales Information**

Country	Product Type	Revenue	Cost	Profit	Margin
Canada	Audio	44074.00	250.00	26,424	14%
	Camcorders	248625.00	2250.00	55,125	28%
	Cameras	536241.00	2200.00	171,041	46%
	Office	27132.00	310.00	6,052	28%
Spain	Video	2179401.00	6950.00	303,901	16%
	Audio	1304016.00	2250.00	439,266	56%
United States	Video	731357.00	2300.00	156,457	27%
	Audio	1960240.00	17330.00	925,160	89%
	Camcorders	2956281.00	23920.00	744,211	33%
	Cameras	883925.00	7930.00	232,675	38%
United States	Office	148695.00	1065.00	53,860	56%
	Video	2056492.00	16740.00	495,122	31%

**Revenue History**

Year	Revenue	Profit
2012-01	~6M	~2M
2012-10	~11M	~3M
2012-11	~7M	~2.5M
2012-12	~1M	~0.5M

**Profit Breakdown by Product Type**

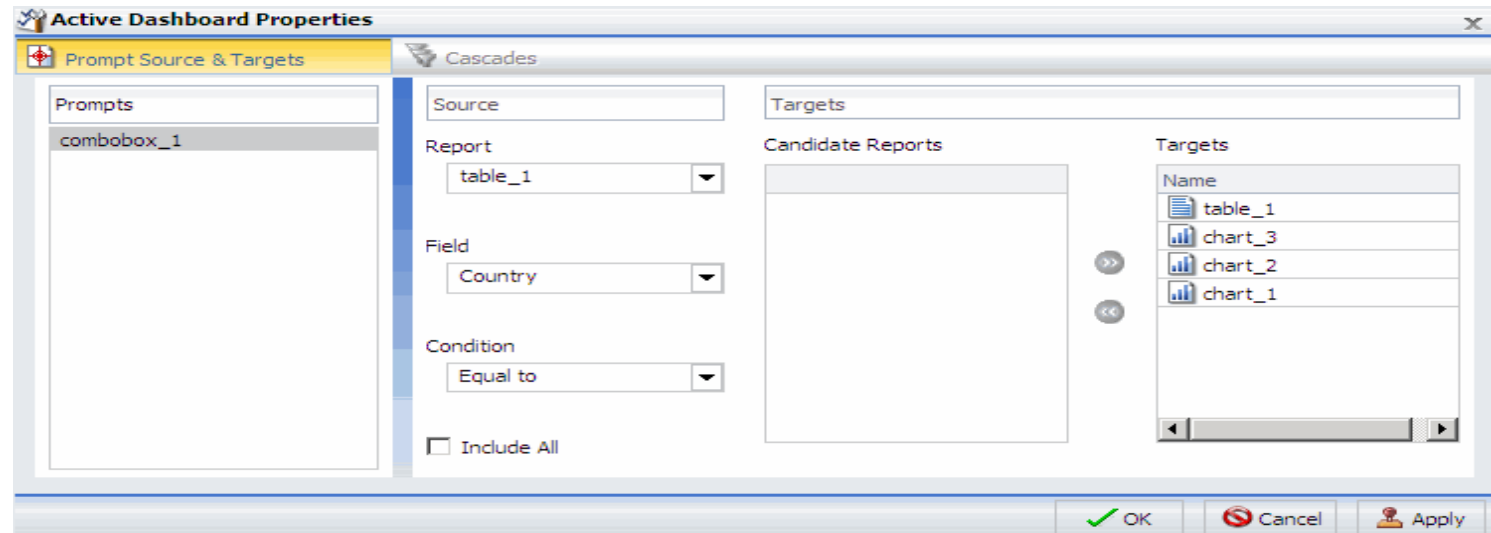
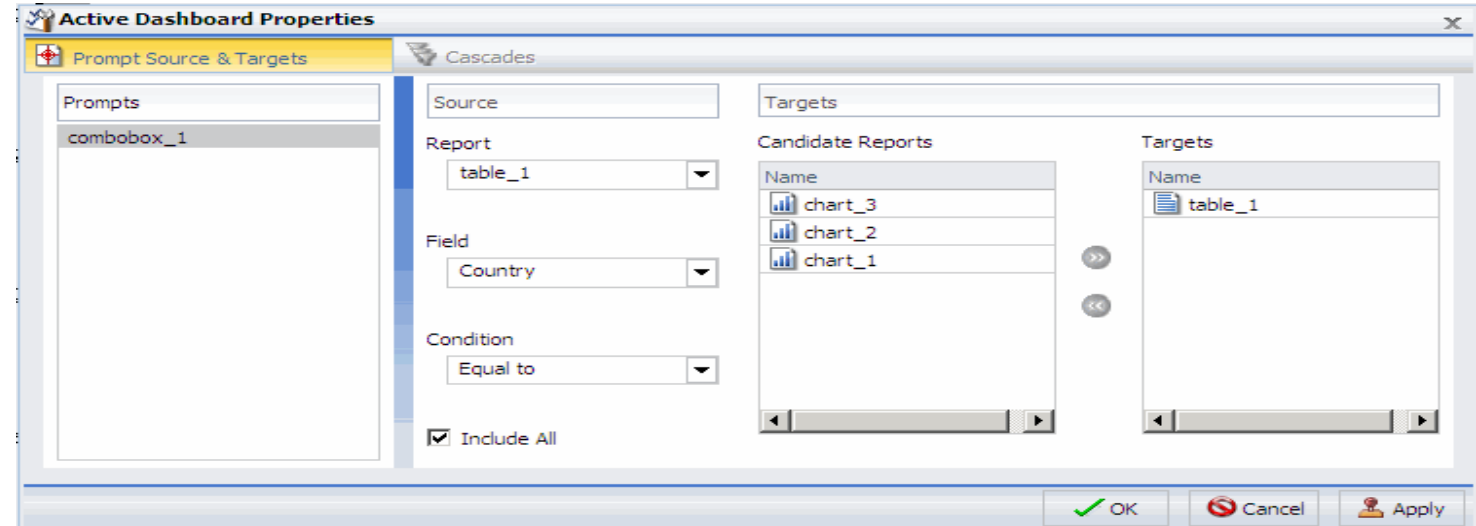
Product Type	Profit
Au	34%
Cu	19%
Off	1%
Vic	14%
Other	31%

**Profit Warranty Analysis**

Product Type	Profit
Au	18%
Cu	24%
Off	1%
Vic	14%
Other	43%

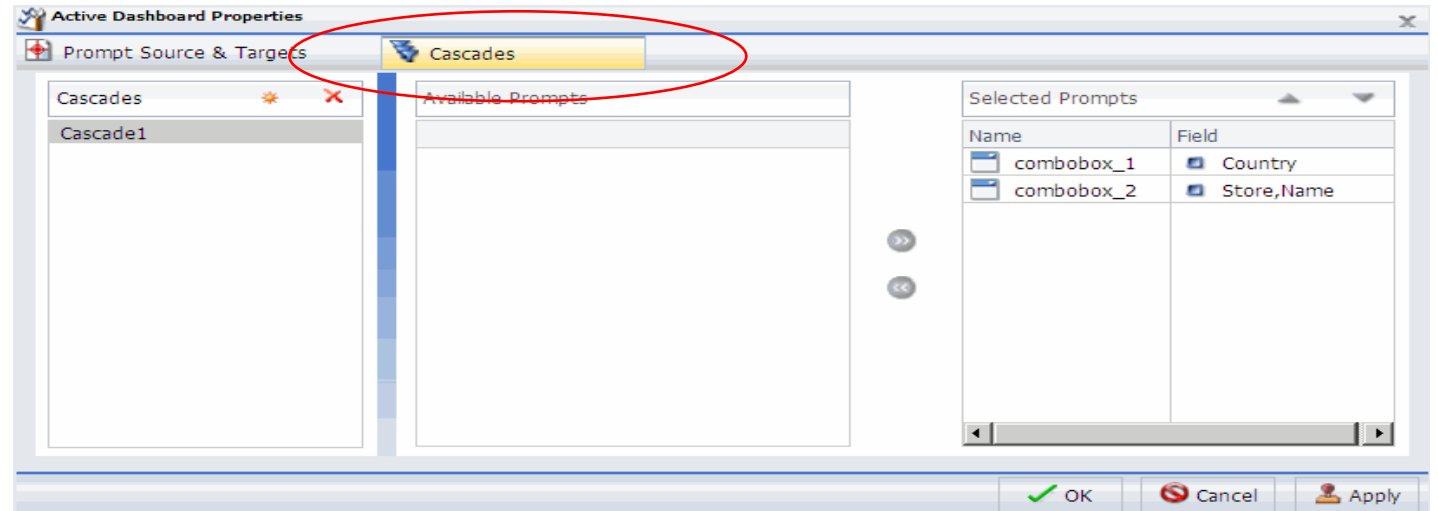
# InfoAssist “Active” Report: Form Controls

- Right click on the drop down box and select properties
- Select the name combobox\_1 on the left under Prompts, select table\_1 under Reports, and select Country under Fields
- Hold shift and click each of the names of reports/charts you want to link together under the Candidates column.
- When you have selected them all, use the movement arrow icon to move your reports and charts from left to right




# InfoAssist “Active” Report: Form Controls

- Add the 2<sup>nd</sup> control for another prompt (e.g., Stores) as before
- Now when you right click, you can select the CASCADES tab to set the order of selectivity for the 2 control boxes
- Please note that Drop Downs, Lists, Radio button groups, and Check box groups all work similarly and require the same configuration to link them to charts or reports.





# InfoAssist "Active" Report: Form Controls

Spain
Consumer Merchandise

Geographical Sales Information

### Revenue by Product Type

Store Name	Product Type	Revenue	Cost	Profit	Margin
Consumer Merchandise	Audio	17243539.00	91680.00	6,904,959	66.8
	Camcorders	19293172.00	122960.00	4,660,962	31.9
	Cameras	7827785.00	46050.00	2,161,125	38.1
	Office	1160163.00	5345.00	428,113	58.5
	Video	21654893.00	146470.00	4,153,193	

5 of 115 records, Page 1 of 1

### Profit Breakdown by Product Type


Profit By Product Type

23%      38%      Audio

### Revenue History

Profit, Revenue By Period

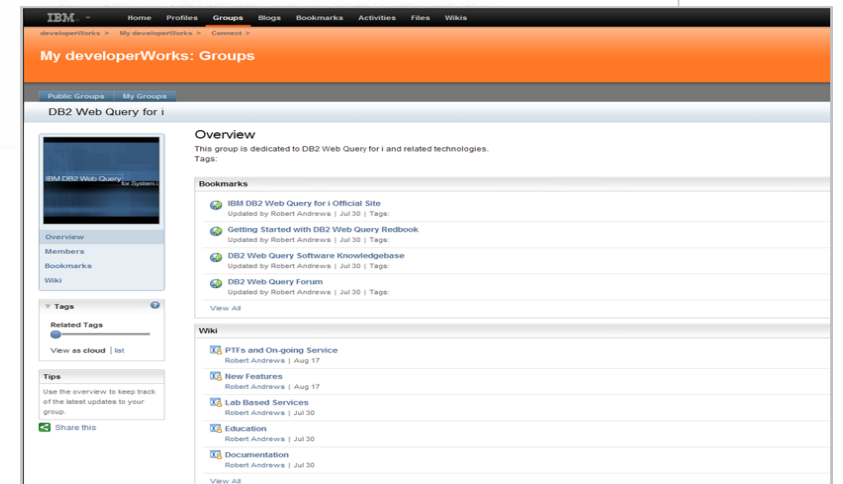
■ Profit    ■ Revenue



•Finished Product !

# To Learn More

- DB2 Web Query for i Website
  - [Ibm.biz/db2webqueryi](http://ibm.biz/db2webqueryi)
- DB2 Web Query for i Wiki
  - [Ibm.co/db2wqwiki](http://ibm.co/db2wqwiki)
- DB2 Web Query Getting Started Enablement:
  - <https://ibm.biz/db2wqconsulting>
- Demonstrations:
  - Wizard Analytics: <https://ibm.biz/DB2WQWizards>
  - End User Demos: <https://ibm.biz/db2wqreportingdemos>
  - Getting Started Videos: <https://ibm.biz/db2wqgettingstarteddemos>
- Follow DB2 Web Query guy Doug Mack on twitter at @mckdrmoly or check out his blog at <http://db2webqueryi.blogspot.com/> for all the latest



Thank You