

# Beyond Query/400

IBM System i™

IBM

## Beyond Query/400: IBM DB2 Web Query for System i

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*i want stress-free IT.*  
*i want control.*  
*i want an i.*


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**"The Information you already possess holds the knowledge you seek"**



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# Beyond Query/400

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## System i for BI is **Hot** Again!

- New Model 515 and 525
  - New Entry Point Pricing
- New System i POWER6 570
  - Enterprise Data Warehousing
  - #1 in SAP Data Mart Benchmark
- DB2 for i5/OS V5R4
  - On Demand Performance Center
  - System Wide Index Advice and Autonomic Indexes
  - Encoded Vector Index Advice and MQT Statistics
  - Sustained Leadership in SAP BW Benchmark
- DB2 Web Query for System i
  - New modernized version of Query/400
- IBM and Tools Innovation Products for BI
  - [http://www.ibm.com/jct09002c/partnerworld/wps/ubb/systems/i/technical/iii/tools\\_roadmap?gcLang=en](http://www.ibm.com/jct09002c/partnerworld/wps/ubb/systems/i/technical/iii/tools_roadmap?gcLang=en)

**#1 in SAP BW Query/Hr Benchmark**

Core Count	IBM Power/DB2	Fujitsu/Oracle	HP/Oracle
4-core	~180	~100	~100
8-core	~280	~180	~180
16-core	~420	~350	~350

\*See detailed certified benchmark results at [http://www.sap.com/solutions/benchmark/BW2\\_results.htm](http://www.sap.com/solutions/benchmark/BW2_results.htm)

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## Industry Acceptance: Gartner Magic Quadrants

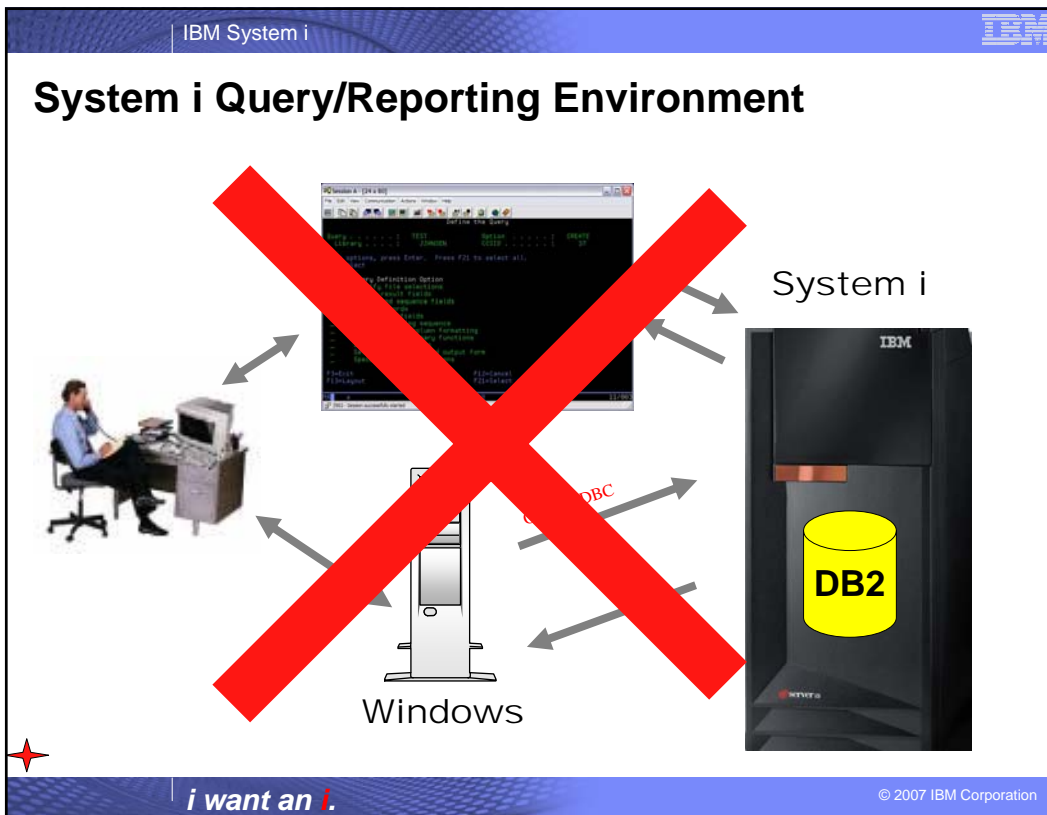
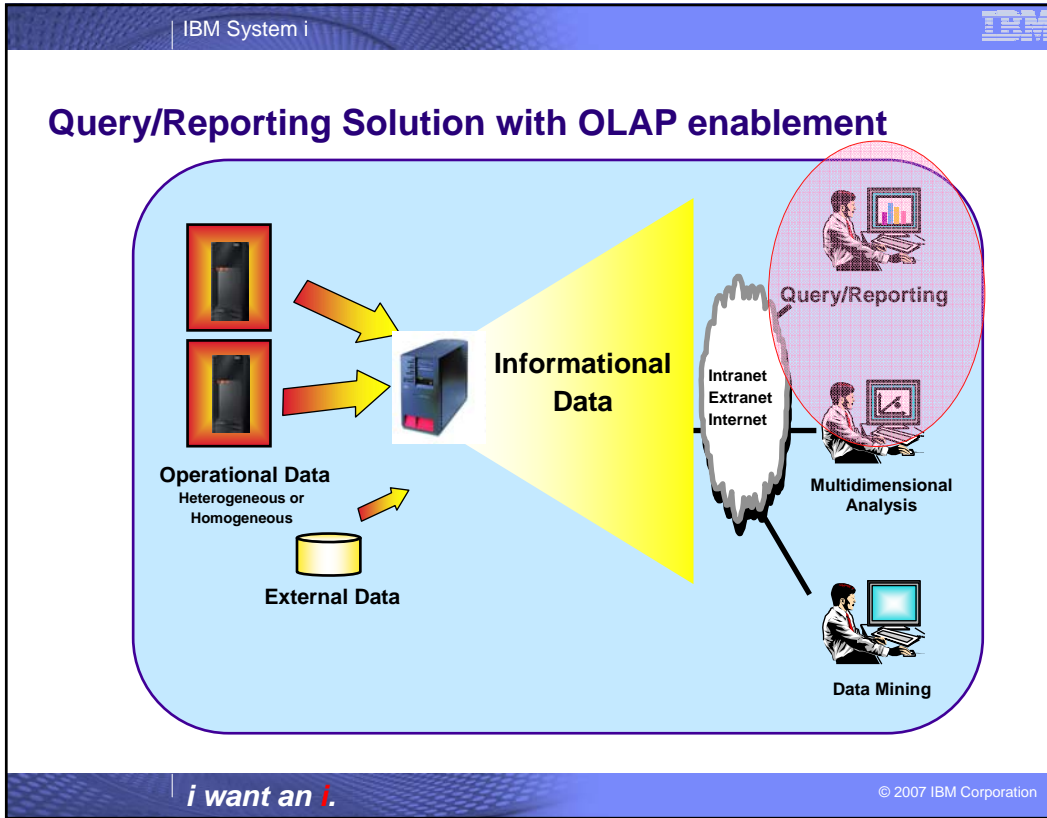
**Gartner Magic Quadrant: Data Warehouse DBMS Servers**

**Figure 1. Magic Quadrant for Data Warehouse Database Management Systems, 2006**

Publication Date: 25 August 2006 ID Number: G00141428

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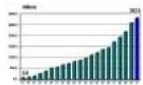


# Beyond Query/400

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## DB2 Web Query Overview

- Comprehensive Enterprise Query and Reporting Suite
  - Report, Analyze, Visualize
  - Grow into enterprise data warehousing
- Provides SIMPLE Information Access
  - For users at all skill-levels
- Built on the “Best-In-Class” integration platform
  - Extensible connectivity to 250+ data sources and many System i ERP systems
- For Strategic, Tactical and Operational information Systems throughout your organization and beyond

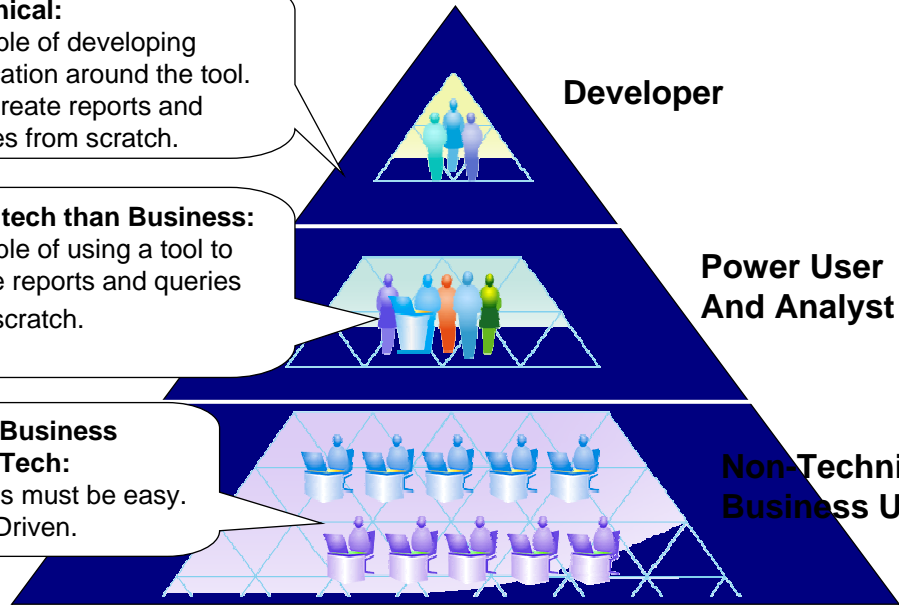


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## Know Your Audience



**Technical:**  
Capable of developing application around the tool.  
Can create reports and queries from scratch.

**More tech than Business:**  
Capable of using a tool to create reports and queries from scratch.

**More Business Than Tech:**  
Access must be easy.  
Data-Driven.

**Developer**

**Power User And Analyst**

**Non-Technical Business User**


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## Know Your Audience



**DB2 Web Query Is Easier to Learn for Business Users**

*According To Independent Research...*

- Most end users of DB2 Web Query need little or no training
- With most query and reporting products end users required from 3 to as many as 10 days of training.




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## End User Tools



~~Get them the most sophisticated tools~~

Get them the right tools:

- Excel users want to use Excel
- Match the tools to the requirements
- Tools need to be simple and intuitive
- End users will not endure heavy training
- Internet capable, installable, auto upgradeable

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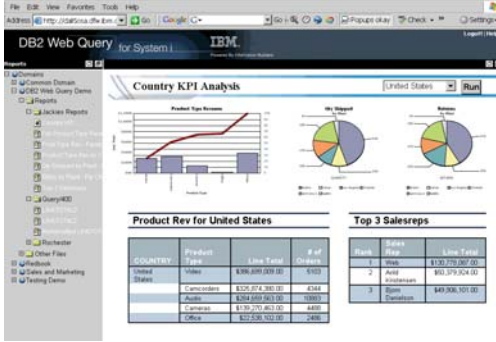
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# Beyond Query/400

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## IBM DB2 Web Query for System i

- IBM delivers a Web-based query and report writing product that replaces IBM Query for iSeries (Query/400)
- Base Product
  - Report and graphing Assistants
  - Power Painter
  - Spreadsheet integration
  - Web-enable Query/400 reports
- Additional IBM Features
  - Active Reports (Disconnected)
  - On Line Analytical Processing
  - Developer Workbench
- Additional Add-On Available
  - ERP Adapters
  - Database/Cube/Mining Connectors
  - Extract/Transformation/Load



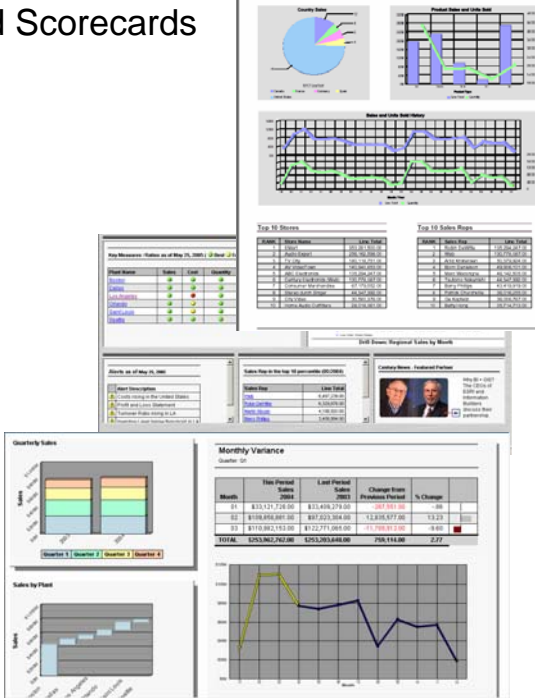
For more details, refer to:  
<http://www.ibm.com/systems/i/software/db2/webquery>

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## Intelligence Dashboards and Scorecards

- Manage corporate objectives and strategies
- KPIs
- Drill downs
- Operational Reporting, Data Marts, Data Warehouse
- Fastest time to market and lowest TCO



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# Beyond Query/400

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## Graphing Assistant

Revenue by Product Type  
Plant comparison

Product Type	Line Total: BOS	Line Total: DAL	Line Total: LA	Line Total: ORL	Line Total: SEA	Line Total: STL
Audio	382,683,321.00	444,531,041.00	184,103,667.00	30,245,685.00	520,360,205.00	1,561,923,919.00
Camcorders	444,531,041.00	184,103,667.00	30,245,685.00	520,360,205.00	1,561,923,919.00	1,561,923,919.00
Cameras	184,103,667.00	30,245,685.00	520,360,205.00	1,561,923,919.00	1,561,923,919.00	1,561,923,919.00
Office	30,245,685.00	520,360,205.00	1,561,923,919.00	1,561,923,919.00	1,561,923,919.00	1,561,923,919.00
Video	520,360,205.00	1,561,923,919.00	1,561,923,919.00	1,561,923,919.00	1,561,923,919.00	1,561,923,919.00
<b>TOTAL</b>	<b>1,561,923,919.00</b>	<b>1,561,923,919.00</b>	<b>1,561,923,919.00</b>	<b>1,561,923,919.00</b>	<b>1,561,923,919.00</b>	<b>1,561,923,919.00</b>

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## Report Assistant

Reporting from file: CEN\_ORDERS

Product Type	Line Total
Audio	382,683,321.00
Camcorders	444,531,041.00
Cameras	184,103,667.00
Office	30,245,685.00
Video	520,360,205.00
<b>TOTAL</b>	<b>1,561,923,919.00</b>

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## Gross Profit by Product Category

Product Type	Gross Profit Rank	Product Category	Line Total	Cost of Goods Sold	Gross Profit
Audio	1	Audio Systems	\$122,345,680.	\$82,282,820.	\$121,004,220
	2	Speakers	\$84,717,053.	\$24,680,990.	\$84,373,233
	3	CD Players and Recorders	\$53,847,459.	\$37,838,460.	\$53,200,739
	4	MP3	\$43,491,588.	\$26,438,660.	\$43,090,478
	5	Amplifiers/PreAmps/Tuners	\$42,374,428.	\$25,739,570.	\$42,011,058
	6	Receivers	\$35,907,113.	\$22,998,000.	\$35,555,263
*TOTAL PRODUCTTYPE Audio			\$382,683,321.	\$219,978,500.	\$379,234,991
Camcorders	1	DVD Camcorders	\$379,376,637.	\$300,373,350.	\$375,144,437
	2	MiniDV Camcorders	\$51,539,451.	\$34,128,360.	\$50,991,761
	3	Digital8 Camcorders	\$13,614,953.	\$6,512,600.	\$13,535,923
*TOTAL PRODUCTTYPE Camcorders			\$444,531,041.	\$341,014,310.	\$439,672,121
Cameras	1	Digital Cameras	\$184,103,667.	\$133,328,830.	\$182,200,567
*TOTAL PRODUCTTYPE Cameras			\$184,103,667.	\$133,328,830.	\$182,200,567
Office	1	Handheld and PDA	\$18,533,190.	\$14,067,420.	\$18,374,880
	2	Organizers	\$11,712,495.	\$4,957,305.	\$11,655,940
*TOTAL PRODUCTTYPE Office			\$30,245,685.	\$19,024,725.	\$30,030,820
Video	1	DVD	\$329,872,045.	\$248,768,900.	\$326,179,845
	2	TV	\$168,799,539.	\$150,771,700.	\$166,628,939
	3	VCR	\$21,688,621.	\$16,270,950.	\$21,463,121
*TOTAL PRODUCTTYPE Video			\$520,360,205.	\$415,811,550.	\$514,271,905
<b>TOTAL</b>			<b>\$1,561,923,919.</b>	<b>\$1,129,157,915.</b>	<b>\$1,545,410,404</b>

Prepared on 04/21/07 at 10.37.53

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## Report Assistant: Drill Down

### Revenue by Product Type

Product Type	Line Total
Audio	\$382,683,321.
Camcorders	\$444,531,041.
Cameras	\$184,103,667.
Office	\$30,245,685.

### Gross Profit for Audio

Product Type	Gross Profit Rank	Product Category	Line Total	Cost of Goods Sold	Gross Profit
Audio	1	Audio Systems	\$122,345,680.	\$82,282,820.	\$121,004,220
	2	Speakers	\$84,717,053.	\$24,680,990.	\$84,373,233
	3	CD Players and Recorders	\$53,847,459.	\$37,838,460.	\$53,200,739
	4	MP3	\$43,491,588.	\$26,438,660.	\$43,090,478
	5	Amplifiers/PreAmps/Tuners	\$42,374,428.	\$25,739,570.	\$42,011,058
	6	Receivers	\$35,907,113.	\$22,998,000.	\$35,555,263
*TOTAL PRODUCTTYPE Audio			\$382,683,321.	\$219,978,500.	\$379,234,991
<b>TOTAL</b>			<b>\$382,683,321.</b>	<b>\$219,978,500.</b>	<b>\$379,234,991</b>

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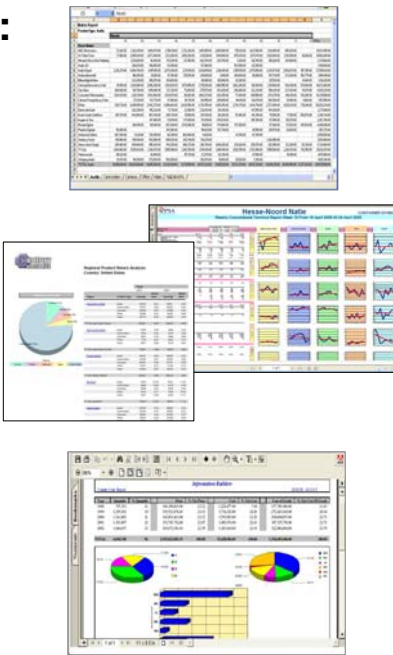
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## Output Reports and Graphs to:

- HTML
- PDF
- Excel 97/2k/2k w formula's
- Active Reports
- Postscript

• DB2 for i5/OS table

- Excel 95
- Doc with and without page breaks
- WK1
- DIF
- Lotus
- Tab Delimited
- XML

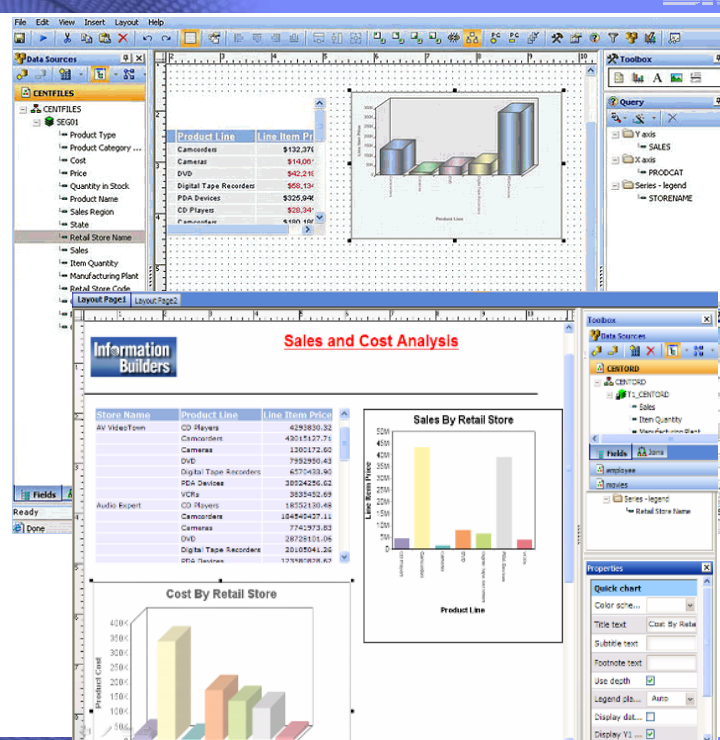


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## Power Painter

- Business people designing reports for business people
- Powerful thin-AJAX based Report Design tool
- Build Rich Compound Reports in your business unit
- Simple, flexible access without the need to rely on IT



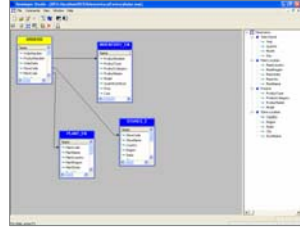
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# Beyond Query/400

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## DB2 Web Query Developer Workbench

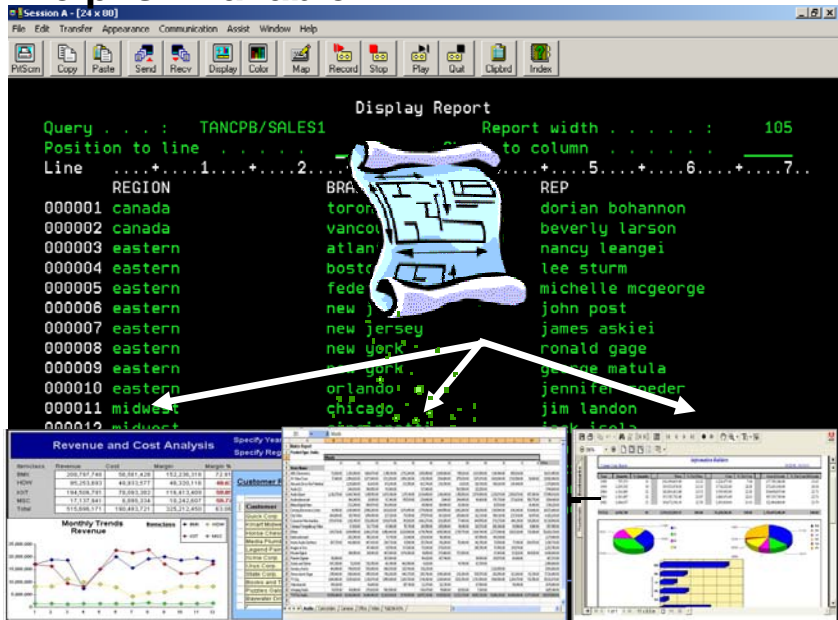
- Excellent Date understanding and added functionality including Date decomposition (Year, Quarter, Month, Day)
- Creation of Hierarchies and Dimension
- Very good awareness of DB2 Foreign Key constraints
- Basic DB2 Web Query metadata also includes: Column-titles, Business Descriptions, Alias, Format, Usage, Pre and Post Processing Calculations, hundreds of data manipulation functions
- Federated Queries
- SQL Wizard
- **HTML Layout painter**



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## Help is Available



Query . . . : TANCPB/SALES1 Report width . . . . : 105  
Position to line . . . . . to column . . . . .  
Line . . . . .1 . . . . .2 . . . . .5 . . . . .6 . . . . .7 . . . . .

REGION	BRA	REP
000001 canada	toron	dorian bohannon
000002 canada	vancou	beverly larson
000003 eastern	atlan	nancy leangei
000004 eastern	bost	lee sturm
000005 eastern	fede	micelle mcgeorge
000006 eastern	new j	john post
000007 eastern	new jersey	james askie
000008 eastern	new york	ronald gage
000009 eastern	new york	george matula
000010 eastern	orlando	jennifer gader
000011 midwest	chicago	jim landon
000012 midwest	chicago	larry treala

Revenue and Cost Analysis

Monthly Trends Revenue

- HTML
- EXCEL
- PDF
- and more...

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# Beyond Query/400

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## Import Query/400 Definitions

Then Modify with Report Assistant

Country	Product Type	Product Category	Store Name	Line Total
Canada	Audio	Amplifiers/PreA	ABC Electronics	3,324,409.00
			TOTAL	3,324,409.00
			Home Audio Outfitters	1,415,374.00
			TOTAL	1,415,374.00
			Planète Digital	54,145.00
			TOTAL	54,145.00
			Winnipeg Audio	262,517.00
			TOTAL	262,517.00
			ABC Electronics	5,056,445.00
			TOTAL	5,056,445.00
			Audio Systems	12,000,859.00
			TOTAL	12,000,859.00

Select Country(s)  
Canada  
United States

Run Reset Clear Output Run in a new window

### Store Revenue by Product

Country	Product Type	Product Category	Store Name	Product Type	Line Total
Canada	Audio	Amplifiers/PreA	ABC Electronics	Audio	3,324,409.00
			Home Audio Outfitters	Audio	1,415,374.00
			Planète Digital	Audio	54,145.00
			Winnipeg Audio	Audio	262,517.00
			ABC Electronics	Audio	12,000,859.00
			Home Audio Outfitters	Audio	1,205,104.00
			Planète Digital	Audio	800,872.00
			Winnipeg Audio	Audio	985,209.00
			ABC Electronics	Audio	4,270,449.00
			Home Audio Outfitters	Audio	737,463.00
			Planète Digital	Audio	196,172.00
			Winnipeg Audio	Audio	397,070.00
			ABC Electronics	Audio	3,430,801.00
			Home Audio Outfitters	Audio	703,066.00
			Planète Digital	Audio	180,790.00

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## Query/400 Output

Session A - [24 x 80]

File Edit View Communication Actions Window Help

Display Report

Query . . . : CENTURY/LINETOTAL2 Report width . . . . . : 72  
Position to line . . . . . Shift to column . . . . .

Line	Country	Product Type	Product Category	Store Name	Line Total
000001	Canada	Audio	Amplifiers/PreA	ABC Electronics	
000002				TOTAL	3,324,409.00
000003					
000004	Canada	Audio	Amplifiers/PreA	Home Audio Outf	
000005				TOTAL	1,415,374.00
000006					
000007	Canada	Audio	Amplifiers/PreA	Planète Digital	
000008				TOTAL	54,145.00
000009					
000010	Canada	Audio	Amplifiers/PreA	Winnipeg Audio	
000011				TOTAL	262,517.00
000012					
000013	Canada	Audio	Amplifiers/PreA		
000014				TOTAL	5,056,445.00
000015					
000016	Canada	Audio	Audio Systems	ABC Electronics	
				More...	

F3=Exit F12=Cancel F19=Left F20=Right F21=Split

MA a 03/032

I902 - Session successfully started

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## Query/400 Output via DB2 Web Query

Country	Product Type	Product Category	Store Name	Line Total
Canada	Audio	Amplifiers/PreAmps/Tuners	ABC Electronics	3,324,409.00
<b>*TOTAL T01_STORENAME ABC Electronics</b>				<b>3,324,409.00</b>
			Home Audio Outfitters	1,415,374.00
<b>*TOTAL T01_STORENAME Home Audio Outfitters</b>				<b>1,415,374.00</b>
			PlanDte Digitale	54,145.00
<b>*TOTAL T01_STORENAME PlanDte Digitale</b>				<b>54,145.00</b>
			Winnipeg Audio	262,517.00
<b>*TOTAL T01_STORENAME Winnipeg Audio</b>				<b>262,517.00</b>
<b>*TOTAL T03_PRODCA Amplifiers/PreAmps/Tuners</b>				<b>5,056,445.00</b>
		Audio Systems	ABC Electronics	12,008,859.00
<b>*TOTAL T01_STORENAME ABC Electronics</b>				<b>12,008,859.00</b>

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## Very basic modifications with Report Assistant

Select Country(s)

France  
Germany  
Spain  
United States

Run Reset Clear Output  Run in a new window

### Store Revenue by Product

Country	Product Type	Product Category	Store Name	Product Type	Line Total
Canada	Audio	Amplifiers/PreAmps/Tuners	ABC Electronics	Audio	3,324,409.00
			Home Audio Outfitters	Audio	1,415,374.00
			PlanDte Digitale	Audio	54,145.00
			Winnipeg Audio	Audio	262,517.00
		Audio Systems	ABC Electronics	Audio	12,008,859.00
			Home Audio Outfitters	Audio	1,258,104.00
			PlanDte Digitale	Audio	880,672.00
			Winnipeg Audio	Audio	985,209.00
		CD Players and Recorders	ABC Electronics	Audio	4,270,449.00
			Home Audio Outfitters	Audio	737,463.00
			PlanDte Digitale	Audio	195,172.00
			Winnipeg Audio	Audio	397,070.00
		MP3	ABC Electronics	Audio	3,438,481.00
			Home Audio Outfitters	Audio	703,068.00
			PlanDte Digitale	Audio	180,750.00

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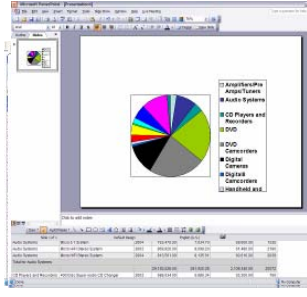



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# Beyond Query/400

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## DB2 Web Query - Intelligence Query and Analysis Active Reports

- Self-contained analytical reports
  - Delivered to users via email or browser
- Users interact with the data on the report w/o being connected to infrastructure
- Intuitive built-in controls
  - Sorting, Filtering, Visualization, Charting, Dynamic Roll-ups
  - Export to HTML, CSV or Excel
  - Export Charts to Word, Excel, or Powerpoint
- Perfect for large scale information delivery applications where extensive user training is not possible
  - Great for Non-technical users

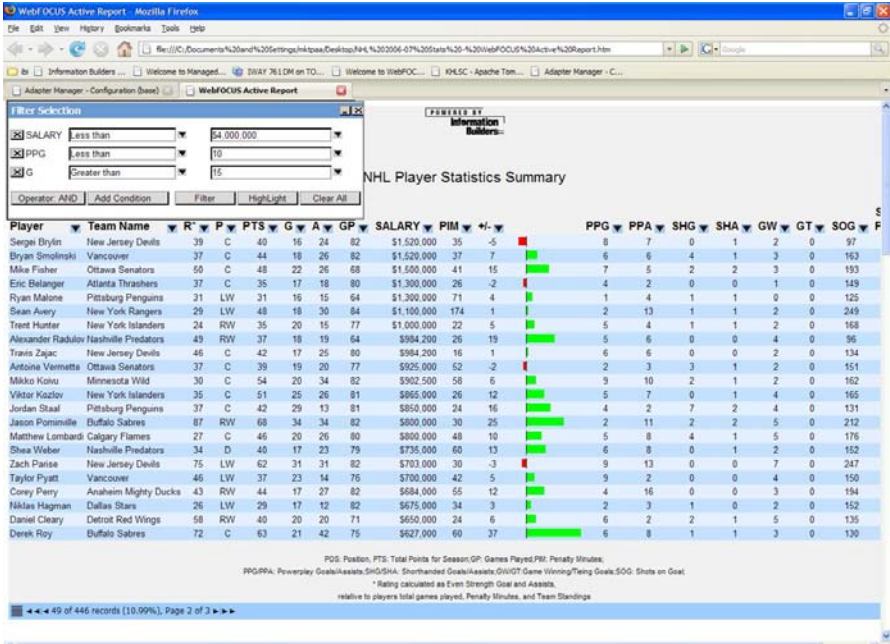





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## Active Reports



**NHL Player Statistics Summary**

Filter Selection:

- SALARY: Less than \$4,000,000
- PPG: Less than 10
- G: Greater than 15

Operator: AND | Add Condition | Filter | HighLight | Clear All

Player	Team Name	R*	P	PTS	G	A	GP	SALARY	PIM	+/-	PPG	PPA	SHG	SHA	GW	GT	SOG	F
Sergei Brylin	New Jersey Devils	39	C	40	16	24	82	\$1,520,000	35	-5	8	7	0	1	2	0	0	97
Bryan Smolinski	Vancouver	37	C	44	18	26	82	\$1,520,000	37	7	6	6	4	1	3	0	0	163
Mike Fisher	Ottawa Senators	50	C	48	22	26	68	\$1,500,000	41	15	7	5	2	2	3	0	0	193
Eric Belanger	Atlanta Thrashers	37	C	35	17	18	80	\$1,300,000	26	-2	4	2	0	0	1	0	0	149
Ryan Malone	Pittsburgh Penguins	31	LW	16	15	15	64	\$1,300,000	71	4	1	4	1	1	0	0	0	125
Sean Avery	New York Rangers	29	LW	48	18	30	84	\$1,100,000	174	1	2	13	1	1	2	0	0	249
Trent Hunter	New York Islanders	24	RW	35	20	15	77	\$1,000,000	22	5	5	4	1	1	2	0	0	168
Alexander Radulov	Nashville Predators	49	RW	37	18	19	64	\$984,200	26	19	5	6	0	0	4	0	0	96
Travis Zajac	New Jersey Devils	46	C	42	17	25	80	\$984,200	16	1	6	6	0	0	0	2	0	134
Antoine Vermette	Ottawa Senators	37	C	39	19	20	77	\$925,000	52	-2	2	3	3	1	2	0	0	151
Mikko Kolehmainen	Minnesota Wild	30	C	54	20	34	82	\$902,500	58	6	9	10	2	1	2	0	0	162
Viktor Kozlov	New York Islanders	35	C	51	25	26	81	\$865,000	26	12	5	7	0	1	4	0	0	166
Jordan Staal	Pittsburgh Penguins	37	C	42	29	13	81	\$850,000	24	16	4	2	7	2	4	0	0	131
Jason Pominville	Buffalo Sabres	87	RW	68	34	34	82	\$800,000	30	25	2	11	2	2	5	0	0	212
Matthew Lombardi	Calgary Flames	27	C	46	20	26	80	\$800,000	48	10	5	8	4	1	5	0	0	176
Shea Weber	Nashville Predators	34	D	40	17	23	79	\$735,000	60	13	6	8	0	0	1	2	0	152
Zach Parise	New Jersey Devils	75	LW	62	31	31	82	\$703,000	30	-3	9	13	0	0	0	7	0	247
Taylor Pyatt	Vancouver	46	LW	37	23	14	76	\$700,000	42	5	9	2	0	0	4	0	0	150
Corey Perry	Anaheim Mighty Ducks	43	RW	44	17	27	82	\$684,000	55	12	4	16	0	0	3	0	0	194
Niklas Hagman	Dallas Stars	26	LW	29	17	12	82	\$675,000	34	3	2	3	1	0	2	0	0	152
Daniel Cleary	Detroit Red Wings	58	RW	49	20	20	71	\$650,000	24	6	6	2	2	1	5	0	0	135
Derek Roy	Buffalo Sabres	72	C	63	21	42	75	\$627,000	69	37	6	8	1	1	3	0	0	130

PG: Position, PTS: Total Points for Season, GP: Games Played, PIM: Penalty Minutes, PPG/PPA: Powerplay Goals/Assists, SHG/SHA: Short-handed Goals/Assists, GW/GT: Game-Winning/Tieing Goals, SOG: Shots on Goal, F: Rating calculated as Even-Strength Goals and Assists, relative to players total games played, Penalty Minutes, and Team Standings

« 49 of 446 records (10.99%), Page 2 of 3 »

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# Beyond Query/400

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## On-Line Analytical Processing (OLAP)

Measures | Graph | Date Dimension | Product Hierarchy | Plant Hierarchy | Store Hierarchy

COUNTRY: --All--  
 REGION: --All--  
 STATE: --All--  
 CITY: --All--  
 Store Name: --All--

OLAP Run Reset Save Help

France  
 Germany  
 Spain  
 United States

### Gross Profit by Product Category

Product Type	Product Category	Line Total	Cost of Goods Sold	Gross Profit
Audio	Amplifiers/PreAmps/Tuners	\$42,374,428	\$25,739,570	\$42,011,058
	Audio Systems	\$122,345,680	\$82,282,820	\$121,004,220
	CD Players and Recorders	\$53,847,459	\$37,838,460	\$53,200,739
	MP3	\$43,491,588	\$26,438,660	\$43,090,478
	Receivers	\$35,907,113	\$22,998,000	\$35,555,263
Camcorders	Speakers	\$84,717,053	\$24,680,990	\$84,373,233
	Digital8 Camcorders	\$13,614,953	\$6,512,600	\$13,535,923
	DVD Camcorders	\$379,376,637	\$300,373,350	\$375,144,437
Cameras	MiniDV Camcorders	\$51,539,451	\$34,128,360	\$50,991,761
	Digital Cameras	\$184,103,667	\$133,328,830	\$182,200,567
Office	Handheld and PDA	\$18,533,190	\$14,067,420	\$18,374,880
	Organizers	\$11,712,495	\$4,957,305	\$11,655,940
Video	DVD	\$329,872,045	\$248,768,900	\$326,179,845
	TV	\$168,799,539	\$150,771,700	\$166,628,939
	VCR	\$21,688,621	\$16,270,950	\$21,463,121
<b>TOTAL</b>		<b>\$1,561,923,919</b>	<b>\$1,129,157,915</b>	<b>\$1,545,410,404</b>

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## DB2 Web Query - Intelligence Reporting MS Excel Integration

- DB2 Web Query has excellent MS Excel integration
- Dynamically generates fully formatted Excel spreadsheets
  - W/ Drilldowns, Formulas, Summations, Color-coding & more
- Improves end user productivity; reduces errors

The screenshot shows an Excel spreadsheet with the following data and features:

Product Category	2003	Same Period Last Year	Color-Coding
Amplifiers/PreAmps/Tuners	03.00	1,350.00	26.98
Audio Systems	06.00	-291.00	-6.46
CD Players and Recorders	80.00	334.00	8.39
DVD	59.00	2,531.00	18.53
DVD Camcorders	0.00	\$10,337.00	10.83
Digital Cameras	5.94	\$2,298.00	25.04
Digital8 Camcorders	3.48	\$8,595.00	13.46
Handheld and PDA	13.71	\$4,219.00	13.71
MP3	18.25	\$1,315.00	18.25
MiniDV Camcorders	8.70	\$2,887.00	8.70
Organizers	6.85	\$3,355.00	6.85
Receivers	196.93	\$99,176.00	14,298.00
Speakers			
TV			
VCR			
<b>TOTAL</b>			

Formulas/Summations: =SUM(C7:C21)

Hyperlinks/Drilldowns: Next Drill Down: Region

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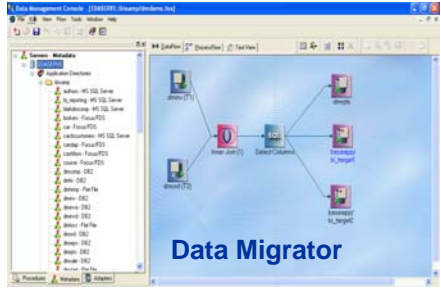


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## Additional Features from Information Builders

- Report Caster
  - Subscribe and publish paradigm
  - Intelligent Bursting
- ERP Adapters
- Data Mining and Cubing API Adapters
  - SPSS' Clementine and ESSBASE/400
- Geographical Information Systems (ESRI) API Adapters
- Extract Transformation Load (ETL)
  - Data Migrator
- Additional RDBMS Adapters

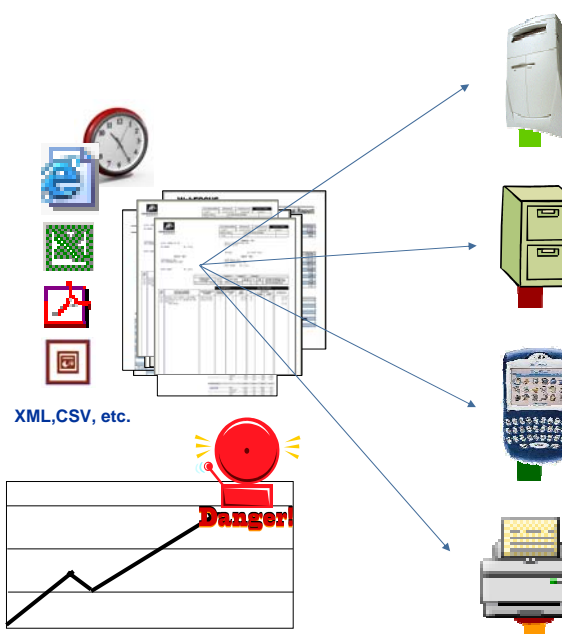


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## Report Caster

- Automated Delivery Of Information
  - a.k.a. "push" or "casting"
- On Schedule
  - Set by administrator
  - ...Or by user subscription
- On Alert/Event
  - Initiated by a real-time events
- Intelligent bursting
- Output format(s) required
- Delivery Destinations
  - Web Server
  - Database archive (library)
  - eMail
  - Mobile device
  - Printer/Fax



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## Leveraging HA/DR Servers

**Production** → **DB2 Mirrored Image** → **ODS** → **Data Warehouse**

**H/A Backup** → **Data Warehouse**

Queries against Production Databases

Queries against Data Warehouse/Marts

### I/T Optimization through Combined H/A and BI Server

- Leverage H/A software to create Operational Data Store (ODS) in near real time
- Utilize ODS as the source for ETL processes into the Data Warehouse
  - Combine with target side remote journaling for ETL efficiencies
- No impact to Production Databases
- Utilize mostly idle capacity of H/A Server for Data Warehouse Workloads
- Optionally mirror Data Warehouse

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## DB2 for i5/OS Enablers for BI

- Built into i5/OS
  - SQL Query Engine (SQE)
  - On Demand Performance Center
  - Database Parallelism\*
  - Real time statistics
  - Materialized Query Tables
  - Star Join/LPG
  - Query Rewrite
  - Encoded Vector Indexing
  - Remote Journaling (Trickle Feed)
  - Single Level Storage
  - Autonomic Indexes
  - Index Advisor
  - Database Monitors

### #1 in SAP BW Query/Hr Benchmark

Configuration	IBM Power/DB2	Fujitsu/Oracle	HP/Oracle
4-core	~150	~100	~100
8-core	~250	~150	~100
16-core	~450	~350	~100

\*See detailed certified benchmark results at [http://www.sap.com/solutions/benchmark/BW2\\_results.htm](http://www.sap.com/solutions/benchmark/BW2_results.htm)

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## Query Optimization Experiences

- SMB Distributor
  - Existing Informix on HP DW
    - 2 hour queries
  - i570 2 CPU LPAR
    - DB2, EVIs, LPG, SMP: **2 hours to 12-49 SECONDS**
- SMB Apparel Manufacturer/Distributor
  - 13 minute queries to 2.5 minutes
  - **25 second queries to .5 SECONDS**
- SMB Service Bureau
  - Batch oriented .NET query running on SQL Server, 2 hours
  - Migrated database to DB2 for i5/OS
  - **2 Hours to 6 MINUTES**
- Large Account Retailer
  - ETL with RPG Taking 7 hours
  - SQL, MQTs, EVIs: **7 hours to 8 MINUTES**

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## Building an SQL Optimization Education Plan

- Four day SQL/Query Performance Workshop
  - 4.5 Day Course in Rochester
    - [ibm.com/servers/eserver/series/service/igs/db2performance.html](http://ibm.com/servers/eserver/series/service/igs/db2performance.html)
- SQL Optimization Assessment
  - Available for use with Services Vouchers
  - NOT a performance analysis – only an assessment
- Database Analysis Tools from Centerfield Technology
  - <http://www.centerfieldtechnology.com/>
- IBM Global Services – Rochester – Performance Analysis Services
  - Contact: Dan Heithoff – [dheithoff@us.ibm.com](mailto:dheithoff@us.ibm.com)

**Note: Traditional Performance Analysis addresses RESOURCE utilization, but does not address database optimization**

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## Quick Start Services

- Getting Started with the New Web Query Tool

The service offering will help you get started with developing and running reports using the New Web Query Tool. IBM experts will help you install the software, create and import meta data, help you import query/400 definitions and assist you in building reports using either the built in reporting features and/or the graphical assistance components allowing you to do drill downs.

[ibm.com/systems/i/editions/services.html](http://ibm.com/systems/i/editions/services.html)

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## DB2 Web Query Pricing

- DB2 Web Query (5733-QU2) Base shipped to Query/400 Customers
  - If licensed to QU1 today and on SW Maintenance, then DB2 Web Query is shipped when i5/OS V5R4 is ordered (QU2 can also be ordered directly for customers on V5R4)
  - A specific number of named users are included based on processor tier
  - New QU2 SWMA
- DB2 Web Query Quick Start service added to voucher program for Enterprise and i5/OS Editions
- DB2 Web Query offered at a competitive price

Tier	Base Server License	Included Users	Additional Named User	Active Reports*	OLAP Module*
P05	\$1,600	2	\$400	\$400	\$400
P10	\$3,200	4	\$400	\$800	\$800
P20	\$9,600	6	\$400	\$2,400	\$2,400
P30	\$19,200	8	\$400	\$4,800	\$4,800
P40	\$28,800	10	\$400	\$7,200	\$7,200
P50	\$38,400	15	\$400	\$9,600	\$9,600
P60	\$48,000	20	\$400	\$12,000	\$12,000

Developer Workbench  
\$995 per user

\*Enables all named users to use this feature  
US List Prices, subject to change without notice

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## DB2 for i5/OS Home Page

[ibm.com/systems/i/db2](http://ibm.com/systems/i/db2)

- Your portal to everything DB2!
- General Information
- See it Action Demos
- What's New
- Education Roadmaps
- **HOW TO Papers**
  - Click on SUPPORT
  - Articles and White Papers
- Including:  
"Why System i for BI"  
[http://www-03.ibm.com/servers/eserver/iseries/db2/pdf/why\\_system\\_i\\_for\\_bi.pdf](http://www-03.ibm.com/servers/eserver/iseries/db2/pdf/why_system_i_for_bi.pdf)




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# Questions & Answers



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