


Beyond Query/400


IBM System i™

IBM DB2 Web Query for System i

Paul Masschelein
Senior IT Specialist
Paul_masschelein@be.ibm.com

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

© Copyright IBM Corporation, 2007. All Rights Reserved.
This publication may refer to products that are not currently available in your country. IBM makes no commitment to make available any products referred to herein.

© 2006 IBM Corporation


IBM System i

Business Intelligence In the News: 2007

- 3/1: Oracle Announces Acquisition of Hyperion
- 3/14: IBM Announces Dynamic Data Warehouse Initiative
- 3/15: Gartner produces report on Msoft's BI Strategy for midmarket
- **4/10: IBM Announces IBM DB2 Web Query for System i**
- 4/24: HP Announces NeoView
- **9/18: IBM Starts Shipping DB2 Web Query**
- 10/7: SAP Acquires Business Objects
- 11/12: IBM Announces plans to acquire Cognos
- **12/31: IBM Ships close to 6000 licenses of DB2 Web Query and exceeds 10,000 downloads of the DB2 Web Query Redbooks**

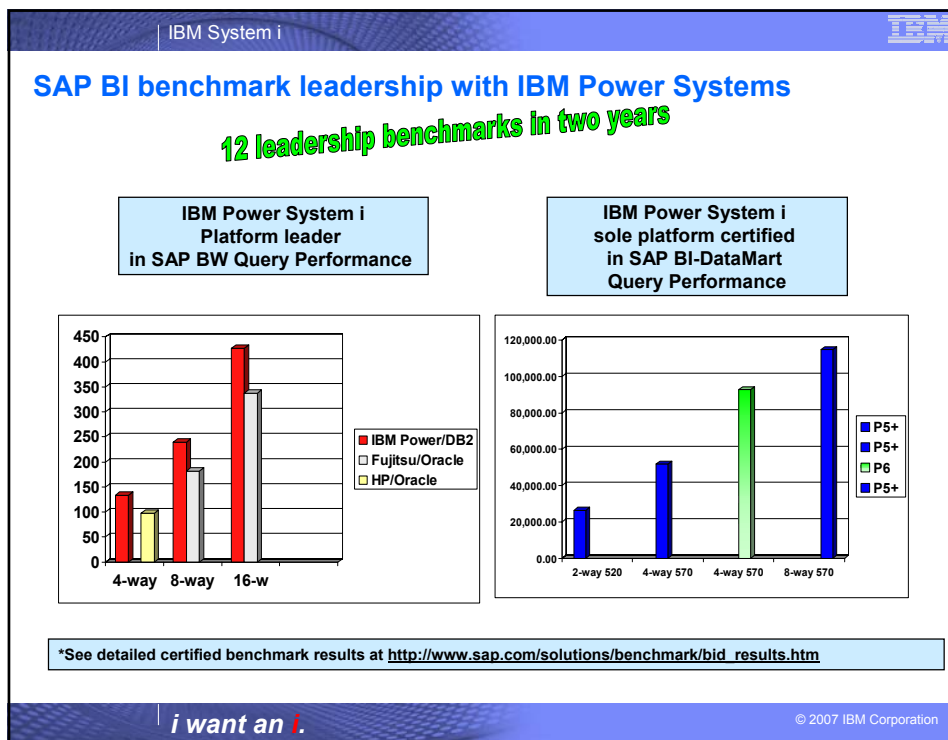


The image shows two overlapping screenshots of web pages. The top screenshot is from the Cognos website, displaying a news article about IBM's acquisition of Cognos. The bottom screenshot is from the IBM System i website, featuring a headline about Arcadia's business intelligence capabilities with WebFOCUS and DB2 on System i, accompanied by a photograph of a modern building.

i want an i.

© 2007 IBM Corporation

Beyond Query/400



IBM System i

Today's BI Requirements

- **Remove Dependency on IT for reporting purposes**
 - Ease IT backlog of reporting requests
 - **Parameterized Reporting**
 - Reduce Report Maintenance
 - Empower End Users
- **Client Independence**
 - Web Based
 - Reduce Software Maintenance
- **Multiple Viewing Options**
 - Dashboards/Scorecards
 - Spreadsheet Integration
 - Static Reports/Intelligent Bursting
 - Report Archival
- **Operational or Data Warehouse**
 - Real time or Historical Reporting
- **Secure the Data**
 - Avoid Data replication
 - Adhere to compliance requirements


i want an i. © 2007 IBM Corporation

Beyond Query/400

IBM System i
IBM

IBM DB2 Web Query for System i Powered By Information Builders

- **5733-QU2 V1R1 Available 9/14**
- Base Program Product Includes:
 - i5/OS Web Reporting Server
 - Several Web Based authoring tools
 - RA, GA, Power Painter
 - Query/400 (5722-QU1)
 - Web Enable Query/400 Reports
 - Unlimited users
 - **BASE PRODUCT OFFERED AS NO CHARGE UPGRADE FROM QU1**
 - Does not include Software Maintenance
 - Includes handful of user licenses based on tier



<http://www.ibm.com/systems/i/db2/webquery>


- Additional Features
 - Additional Named Users
 - Active Reports (Disconnected Analysis)
 - On Line Analytical Processing
 - Requires Meta Data provided with Developer Workbench
 - Developer Workbench
 - IT Tool for meta data

i want an i.
© 2007 IBM Corporation

IBM System i
IBM

DB2 Web Query Enhancement

- New Run-Time User License Enablement Feature
 - New Flexible Pricing option
 - Can now define a single user license as either a:
 - Report "Author"
 - Can create/edit reports with web based tools
 - Synonymous with a Named User as known today
 - Run Time Only Group of Users
 - Can only run reports
 - Can Group multiple users into a single license
- Significantly reduced prices for scenarios with large set of run-time users



Named User Pricing

Tier	Number of Named Users	Price*
P05	40	\$15,200
P10	80	\$32,000
P20	150	\$57,600

New Run Time Pricing

Tier	Number of "Authors"	Number of Run Time Groups	Price*
P05	4	5	\$6,000
P10	4	10	\$10,400
P20	8	20	\$23,200

US list prices, subject to change without notice
 *Assumes upgrade into QU2 from QU1

i want an i.
© 2007 IBM Corporation

Beyond Query/400

IBM System i

Run Time User Enablement Feature (DB2 Web Query Opt. 4)

- Enablement feature licensed to SERVER
 - Provides ability to define user LICENSES as either
 - Report Authors (named "developers")
 - A Group of Run Time Only (can only execute reports, but can execute concurrently)

NEW

Tier	QU2 Base Server License (includes QU1)	Included Users	Additional User (Author or group run-time)	Run-time User Enablement Feature
P05	\$1,600	2	\$400	\$3,200
P10	\$3,200	4	\$400	\$6,400
P20	\$9,600	6	\$400	\$9,600
P30	\$19,200	8	\$400	\$19,200
P40	\$28,800	10	\$400	\$28,800
P50	\$38,400	15	\$400	\$38,400
P60	\$48,000	20	\$400	\$48,000

i want an i.

© 2007 IBM Corporation

IBM System i

What is Different about DB2 Web Query

- Single Server Solution
 - Simpler Software Maintenance
 - Multiple functions in single OS/server
 - OLAP, Report Writer, Web Server, Meta Data, Database
 - Simpler Licensing
- Vertical Scalability
 - Grow without Disruption
- Start Small, Grow Big
 - DB2 Web Query provides FOUNDATION
 - Add additional features per requirements
- Security/Auditability
 - All the data in ONE PLACE
 - No Viruses, No "Patch Tuesday"
- DB2 Query Optimization
 - Patented IBM Technology
 - SQE vs. CQE (Query/400)
- Simplified Data Access
 - No Data Replication Required

i want an i.

© 2007 IBM Corporation

Beyond Query/400

IBM System i			
Comparisons			
Function	Query/400	DB2 Web Query Base + IBM Features	DB2 Web Query IBI Add-ons
UI for Query Developer	5250	Browser (BASE) or Windows (Developer Workbench)	
UI for End User	5250	Browser or Windows (Active Reports or output formats requiring Windows, e.g., Excel)	
Remote DB2 for i5/OS Access	No	Via DRDA (BASE)	
Remote Oracle, SQLServer or other DBMS Access	No	Yes	Future Direction. Available today with WebFOCUS Adapters
Interactive Output	5250, Spoolfile, DB2 Table	PDF, XML, Spreadsheet, HTML, PC-File Formats, Spoolfile, DB2 Table, etc. (BASE)	
Batch Scheduling and Output	i5/OS Scheduler; Spoolfile, DB2 Table	i5/OS Scheduler; Spoolfile, DB2 Table (BASE)	Future Direction. Available today with WebFOCUS and Report Caster
Traffic Lighting	No	Yes (BASE)	
Linked Reports with Drill Down	No	Yes (BASE)	
OLAP	No	Yes (OLAP Feature)	
Disconnected Analysis	No	Yes (Active Reports Feature)	
Dashboarding	No	Yes (requires Developer Workbench)	
Parameterized Reporting	Prompting via 5250 RUNQRY Single Parameter	Yes (BASE), advanced parameterization controls with Dev. Workbench)	
Meta Data Layer	No	Yes (customization of meta data available with Dev. Workbench)	
i want an i. © 2007 IBM Corporation			

IBM System i			
Function	Query/400	DB2 Web Query Base + IBM Features	DB2 Web Query IBI Add-ons
Unlimited User Licensing	Yes	Named User Only	Unlimited User option with upgrade into IBI's WebFOCUS
i5/OS Support	V5R2 and up	V5R4	V5R2 and up with WebFOCUS
Report Content Management	No	No	WebFOCUS Report Caster
Target Audience for developing reports	IT	IT and Business Community	
Portal Integration	No	No	Future Direction (available today with WebFOCUS)
Integration with Operational application	Via RunQry API	As callable URL from Browser	Future Direction (available today with WebFOCUS)
Web Application Server Support	N/A	Comes with Lightweight Web Server	WebSphere, TomCat (requires WebFOCUS)
Compound Reports	No	Yes (BASE), additional capabilities with Dev. Workbench)	
ESSBASE API	No	No	Future Direction
Data Mining API	No	No	Future Direction
Excel Integration	No, must run Query, Download, then Import	Yes, Excel is an output option with report characteristics preserved	
DB2 for i5/OS Optimization	CQE Only	SQE or CQE	
Impact Analysis and Data Profiling	No	Yes (Developer workbench)	
i want an i. © 2007 IBM Corporation			

Beyond Query/400

IBM System i

DB2 Web Query interface

Country KPI Analysis

United States

Run

Product Type Revenue

City Shipped

Revenue by Plant

Product Rev for United States

COUNTRY	Product Type	Line Total	# of Orders
United States	Video	\$386,699,009.00	5103
	Camcorders	\$325,874,300.00	4344
	Audio	\$284,659,563.00	10683
	Cameras	\$139,270,463.00	4493
	Office	\$22,538,102.00	2486

Top 3 Salesreps

Rank	Sales Rep	Line Total
1	Web	\$130,770,007.00
2	Andri Kristensen	\$50,379,924.00
3	Bjorn Danielson	\$49,906,101.00

i want an i.

© 2007 IBM Corporation

IBM System i

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	\$30,245,686.

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
TOTAL			\$382,683,321.	\$219,978,500.	\$379,234,991

Prepared on 04/21/07 at 11.55.53

i want an i.


© 2007 IBM Corporation

Beyond Query/400

IBM System i

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



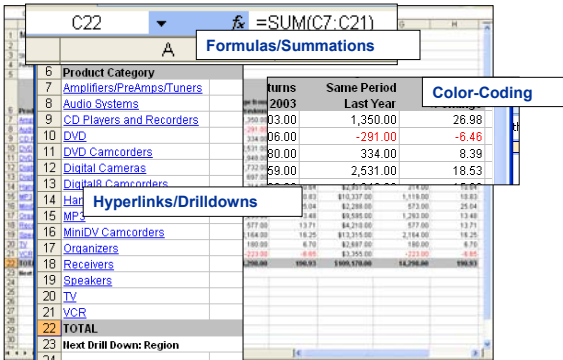
i want an i.

© 2007 IBM Corporation

IBM System i

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



i want an i.

© 2007 IBM Corporation

Beyond Query/400

IBM System i

Graphing Assistant

Revenue by Product Type
Plant comparison

Product Type

Line Total: BGS Line Total: DAL Line Total: LA Line Total: ORL Line Total: SEA Line Total: STL

i want an i.

© 2007 IBM Corporation

IBM System i

Import Query/400 Definitions

Store Revenue by Product


Country	Product Type	Product Category	Store Name	Line Total
Canada	Audio	Amplifiers/Phono/Tuners	ABC Electronics	3,324,489.00
TOTAL TBL_STORENAME ABC Electronics				3,324,489.00
Home Audio Outfitters				1,478,274.00
TOTAL TBL_STORENAME Home Audio Outfitters				1,478,274.00
Pinnacle Digital				54,145.00
TOTAL TBL_STORENAME Pinnacle Digital				54,145.00
Winning Audio				262,517.00
TOTAL TBL_STORENAME Winning Audio				262,517.00
TOTAL TBL_PRODUCT Amplifiers/Phono/Tuners				5,059,445.00
Audio Systems				12,008,899.00
TOTAL TBL_STORENAME ABC Electronics				17,068,899.00

Then Modify with Report Assistant

i want an i.

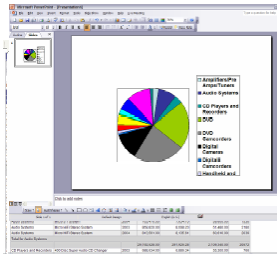


© 2007 IBM Corporation

Beyond Query/400


IBM System i


Active Reports: Disconnected Support

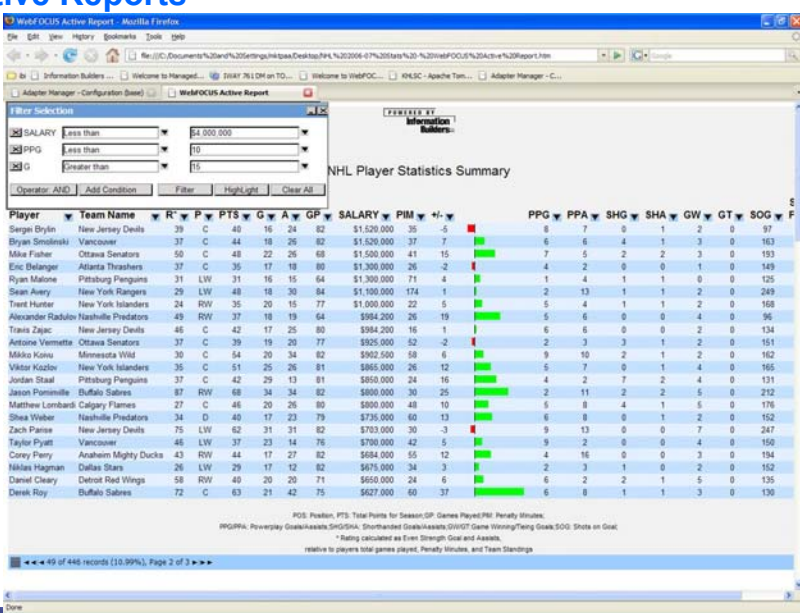
- Self-contained analytical reports
 - Delivered to users via email or browser
- Users interact with the data on the report w/o being connected to infrastructure
- Intuitive built-in controls
 - Sorting, Filtering, Visualization, Charting, Dynamic Roll-ups
 - Export to HTML, CSV or Excel
 - Export Charts to Word, Excel, or PowerPoint
- Great for mobile sales reps and other users that are not connected or defined to the System i

i want an i.
© 2007 IBM Corporation

IBM System i


Active Reports



i want an i.
© 2007 IBM Corporation

Beyond Query/400

IBM System i

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

Gross Profit by Product Category

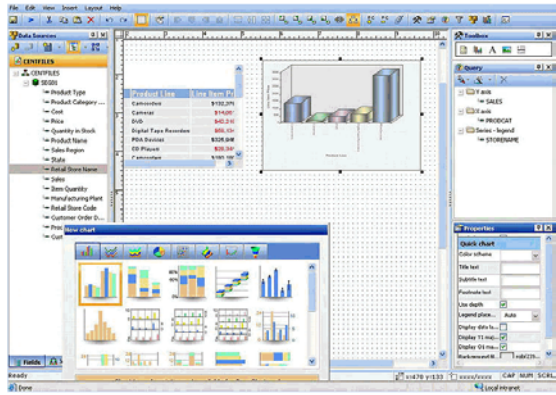
Product Type	Product Category	Line Total	Cost of Goods Sold	Gross Profit
Audio	Amplifiers/PreAmps/Tuners	\$42,374,428	\$25,739,570	\$42,011,058
	Audio Systems	\$122,345,680	\$82,282,820	\$121,004,220
	CD Players and Recorders	\$53,847,459	\$37,838,460	\$53,200,739
	MP3	\$43,491,588	\$26,438,660	\$43,090,478
	Receivers	\$35,907,113	\$22,998,000	\$35,555,263
	Speakers	\$84,717,053	\$24,680,990	\$84,373,233
Camcorders	Digital Camcorders	\$13,614,953	\$6,512,600	\$13,535,923
	DVD Camcorders	\$379,376,637	\$300,373,350	\$375,144,437
	MiniDV Camcorders	\$51,539,451	\$34,128,360	\$50,991,761
Cameras	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
TOTAL		\$1,561,923,919	\$1,129,157,915	\$1,545,410,404

i want an i. © 2007 IBM Corporation

IBM System i

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



i want an i. © 2007 IBM Corporation

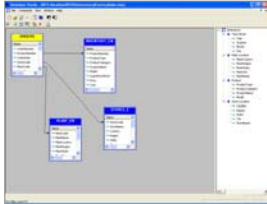
Beyond Query/400

IBM System i

IBM

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



i want an i.

© 2007 IBM Corporation

IBM System i

IBM

Development priorities for DB2 Web Query*

- Improved Batch reporting and automated report distribution
 - Automated scheduling of batch reports with additional output options and automated report distribution
- Software Development Toolkit
 - Enables embedding of report execution within application/portal
 - Over 25 ISVs have already asked for this
- DB2 Web Query Data Connectors (Name may change)
 - Features for:
 - SQL Server
 - JDBC (any DBMS Type 4 JDBC driver can allow for reports to access other DBMS's)
 - JDE (first ERP adapter we will deliver as part of IBM product)
 - Product Vehicle for future Adapter Support
 - SAP, Lawson/Intentia, Infor, Domino, SPSS Adapters being assessed
- Improved Excel Integration
 - “pull” data (vs. current “push” approach)
- Other improvements
 - Additional NLS Support, HTTPS/SSL, etc.

All statements regarding IBM's future direction and intent are subject to change or withdrawal without notice, and represent goals and objectives only.

i want an i.

© 2007 IBM Corporation

Beyond Query/400

IBM System i

Building a Reporting Repository

ERP
i5/OS LPAR
2 CPUs

Data Mart or DW
i5/OS
2 CPUs

MS SQLServer Or Other

ETL Tool or Remote Journal with Transformation Server

Information Builder's Data Migrator

- i5/OS Extract/Transform/Load
- GUI to define mappings
- Scheduler
- Can pull data from MANY different data sources
 - Not just DB2
- Other Options
 - Partner ETL Tools (e.g., Coglin Mill's Rodin)
 - Remote Journaling/IBM's (DataMirror) Transformation Server

WebFOCUS Data Migrator

i want an i.

© 2007 IBM Corporation

IBM System i

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

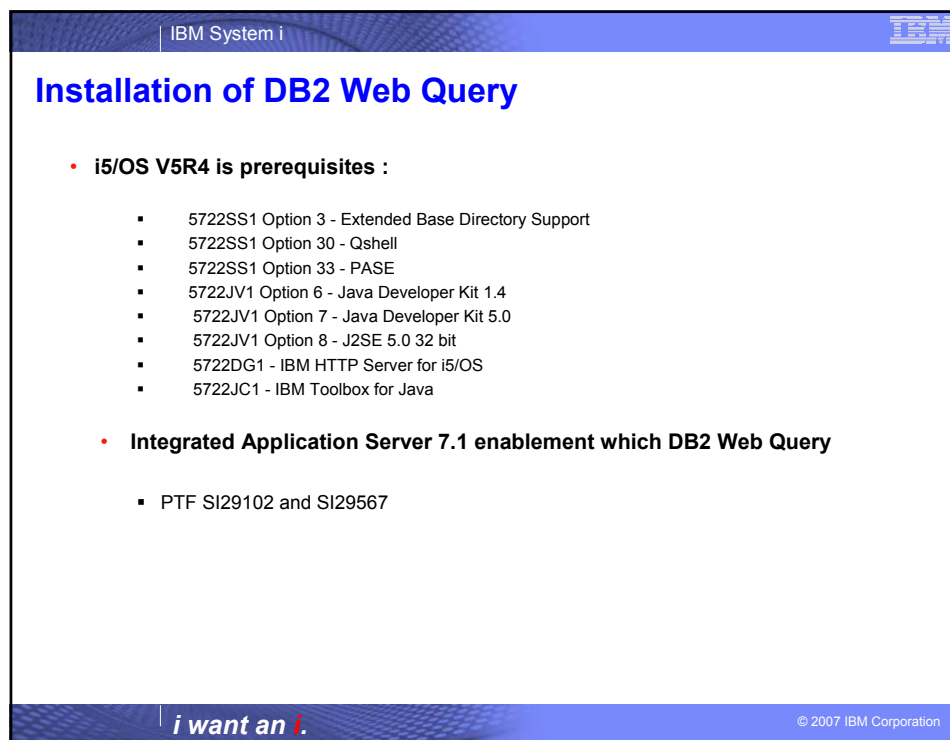
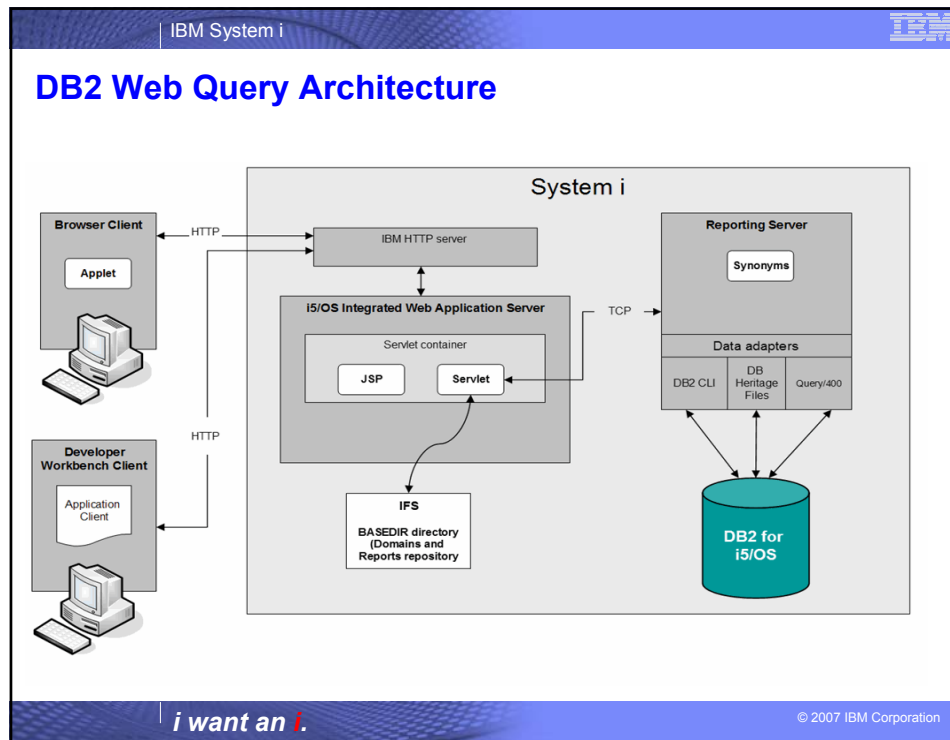
System Configuration	IBM Power/DB2	Fujitsu/Oracle	HP/Oracle
4-core	~150	~100	~100
8-core	~250	~150	~150
16-core	~450	~350	~350

*See detailed certified benchmark results at http://www.sap.com/solutions/benchmark/BW2_results.htm

i want an i.

© 2007 IBM Corporation

Beyond Query/400



Beyond Query/400

IBM System i

IBM

Installation of DB2 Web Query

- Base product:
 - RSTLICPGM LICPGM(5733QU2) DEV(OPT01)
- Active Reports was purchased
 - RSTLICPGM LICPGM(5733QU2) DEV(OPT01) OPTION(1)
- OLAP Enablement option
 - RSTLICPGM LICPGM(5733QU2) DEV(OPT01) OPTION(2)
- Developer Workbench
 - RSTLICPGM LICPGM(5733QU2) DEV(OPT01) OPTION(3)
- Read and press F14 to accept the license.
- Load and apply the latest 5733QU2 PTFs, informational APAR II14318.
- CALL QWEBQRY76/REGWEBQRY // Register the DB2 Web Query HTTP instance.
- User profile QWEBQRYADM created at 1st installation

i want an i.

© 2007 IBM Corporation

IBM System i

IBM

Registering Named Users

- **Registering Named Users.**
 - CALL QWEBQRY76/WQADDLIC 'USERPROFILE'
 - USERPROFILE references your System i user profile name and must be specified in upper case letters.
- **Removing a DB2 Web Query registration**
 - CALL QWEBQRY76/WQRLSLIC 'USERPROFILE'
 - Again your user profile needs to be in upper case.
- **Displaying registered users**
 - WRKLICINF PRDID(5733QU2), option 8 for #5050
- **User Categories**
 - Administrator (MRADMIN), Developer (MDMONTHEND), basic User (MUMONTHEND)
- **Named user**
 - I5/OS user (defined by user profile), registered to use the product
 - User must be "named" user to build and to execute queries against DB2
 - Viewing a report (excel or pdf): no named user required , creating report (pdf or excel): Named user required

i want an i.

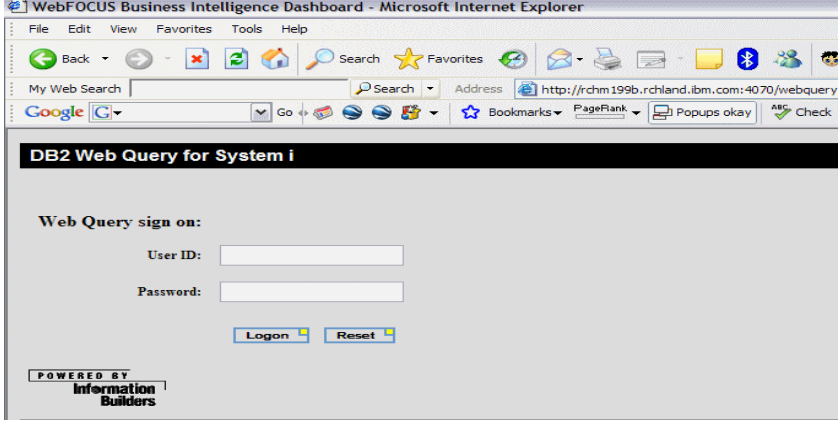
© 2007 IBM Corporation

Beyond Query/400

IBM System i

DB2 Web Query Sign on

- <http://mysystem.abc.acme.com:11331/webquery>



POWERED BY
Information
Builders

i want an i.

© 2007 IBM Corporation

IBM System i

DB2 Web Q sales roadmap

- Until January 8, 2008 : all the edition orders will still include 5722-QU1
- Effective 8 Jan 2008 QU1 will no longer be included at no charge in these new systems
- 5722-QU1 is WDFM on January 4, 2008
- 5722-QU1 can no longer be ordered with V5R4
 - Only with V5R3
- SWMA specific to 5733-QU2
 - Grace period of 90 days for transition
 - After grace period : after licence fee

i want an i.

© 2007 IBM Corporation

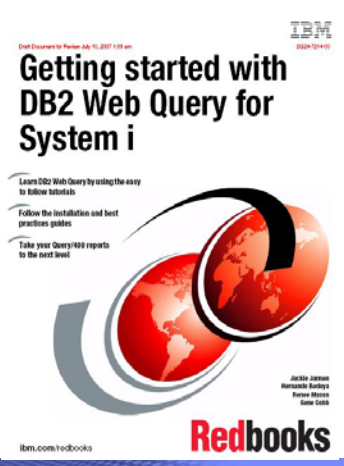
Beyond Query/400

IBM System i

IBM

Redbook:
Getting Started with DB2 Web Query for System i

- SG24-7214
- Downloadable from:
<http://www.redbooks.ibm.com/redpieces/abstracts/sg247214.html?Open>



First Document in Series July 10, 2007 1:08 am

**Getting started with
DB2 Web Query for
System i**

Learn DB2 Web Query by using the easy
to follow tutorials

Follow the installation and best
practices guides

Take your Query/400 reports
to the next level

IBM
SG24-7214-01

Jackie Lamm
Kathleen Rodgers
Brian Morris
Gene Cobb

Redbooks

ibm.com/redbooks

i want an i.


© 2007 IBM Corporation

IBM System i

IBM

DB2 for i/OS Home Page ibm.com/systems/i/software/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



IBM DB2 for i/OS Home Page

IBM DB2 for i/OS is an advanced, 64-bit relational database management system (RDBMS) that leverages the 64-bit General Purpose Architecture (GPA) of the IBM System i. It is a member of the DB2 family of products. DB2 for i/OS supports a broad range of applications and development environments at a low cost of ownership due to its unique partitioned table architecture.

Advanced Computing Features

The next generation of DB2 for i/OS provides unique attributes to this 64-bit, single user, single and the object-based operating system. DB2 for i/OS is designed to manage the data and the applications, while supporting the enterprise line and security. Automation of many of the common database management (DB2) tasks required to other DB2's and its components of DB2 for i/OS have been automated. Reports show business gathering to automatic Computing Features are available by using the self-assessment tool (SAS) for i/OS.

Open Development Environments

DB2 for i/OS is designed to support many different development environments through its ability to create and manage open standards and standard development environments on the IBM i/OS. DB2 for i/OS is available through 2007. It includes a full set of products, in the same way as the 400 code on the new platform, including the DB2 for i/OS. It also supports the i/OS environment.

Availability

DB2 for i/OS manages the on-demand capabilities of System i, including dynamic logical partitioning and On-Demand Capacity Upgrade on Demand to simply and easily respond to changing needs to reduce business continuity in a dynamic environment. DB2's sophisticated job-based query

NEW DB2 Web Query Website: <http://www.ibm.com/systems/i/software/db2/webquery>

- Frequently Asked Questions
- Detailed Demonstration
- “Why System i for BI” White Paper
- Links to Information Builder Add-on product information

i want an i.

© 2007 IBM Corporation

Beyond Query/400

IBM System i

IBM

Questions & Answers



i want an i.

© 2007 IBM Corporation

IBM System i

IBM

Trademarks and Disclaimers

© IBM Corporation 1994-2006. All rights reserved.
References in this document to IBM products or services do not imply that IBM intends to make them available in every country.

The following terms are trademarks of International Business Machines Corporation in the United States, other countries, or both:
Instruction: Refer to the following URL: <http://www.ibm.com/legal/copytrade.shtml>. Edit the list below, IBM subsidiary statement, and special attribution companies which follow so they coincide with your presentation.

AS/400	e-business on demand	IS/OS
AS/400e	IBM	OS/400
eServer	IBM (logo)	System i5
@server	System i	

Rational is a trademark of International Business Machines Corporation and Rational Software Corporation in the United States, other countries, or both.
Intel, Intel Logo, Intel Inside, Intel Inside logo, Intel Centrino, Intel Centrino logo, Celeron, Intel Xeon, Intel SpeedStep, Itanium, and Pentium are trademarks or registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries.
Linux is a trademark of Linus Torvalds in the United States, other countries, or both.
Microsoft, Windows, Windows NT, and the Windows logo are trademarks of Microsoft Corporation in the United States, other countries, or both.
UNIX is a registered trademark of The Open Group in the United States and other countries.
Java and all Java-based trademarks are trademarks of Sun Microsystems, Inc. in the United States, other countries, or both.
Other company, product or service names may be trademarks or service marks of others.

Information is provided "AS IS" without warranty of any kind.

All customer examples described are presented as illustrations of how those customers have used IBM products and the results they may have achieved. Actual environmental costs and performance characteristics may vary by customer.

Information concerning non-IBM products was obtained from a supplier of these products, published announcement material, or other publicly available sources and does not constitute an endorsement of such products by IBM. Sources for non-IBM list prices and performance numbers are taken from publicly available information, including vendor announcements and vendor worldwide homepages. IBM has not tested these products and cannot confirm the accuracy of performance, capability, or any other claims related to non-IBM products. Questions on the capability of non-IBM products should be addressed to the supplier of those products.

All statements regarding IBM future direction and intent are subject to change or withdrawal without notice, and represent goals and objectives only. Contact your local IBM office or IBM authorized reseller for the full text of the specific Statement of Direction.

Some information addresses anticipated future capabilities. Such information is not intended as a definitive statement of a commitment to specific levels of performance, function or delivery schedules with respect to any future products. Such commitments are only made in IBM product announcements. The information is presented here to communicate IBM's current investment and development activities as a good faith effort to help with our customers' future planning.

Performance is based on measurements and projections using standard IBM benchmarks in a controlled environment. The actual throughput or performance that any user will experience will vary depending upon considerations such as the amount of multiprogramming in the user's job stream, the I/O configuration, the storage configuration, and the workload processed. Therefore, no assurance can be given that an individual user will achieve throughput or performance improvements equivalent to the ratios stated here.

Photographs shown are of engineering prototypes. Changes may be incorporated in production models.

i want an i.

© 2007 IBM Corporation