



IBM Software Group

LAADB2UG

Mark Talens

DB2 I/T Specialist

12/6/2007

DB2. Data Management Software



December 6, 2007

Agenda

08:30 - Doors open for coffee and refreshments.

08:45 - IBM comments and announcements

09:00 - **Matt Emmerton presents Viper 2's new and improved features**

10:30 - **Bio- Break and return for part 2.**

10:45 - **Willie Favero presents Structure and Format Enhancements in DB2 9 for z/OS**

12:00 - **LUNCH PROVIDED BY IBM**

DB2 End of Service Dates

V8.x	DB2 Universal Database and DB2 Connect		April 30, 2009
V9	DB2 Universal Database and DB2 Connect		September 30 2011
V7	DB2 for OS/390		June 30, 2008
V8	DB2 for z/OS		TBA
V9	DB2 for z/OS		TBA
V7	IMS for OS/390		11/8/2005
V8	IMS for z/OS		11/5/2008
V9	IMS for z/OS		TBA
V10	IMS for z/OS		TBA

News



Voice of the DB2 Community - Podcast series

- Interviews and discussions on topics vital to DB2 users
- Conducted interviews with technical leaders, users, and business partners, who offer their expert insights and discuss technology innovation and evolution.
- <http://www-306.ibm.com/software/data/db2/podcast/>
- **Threading in Viper 2 [16 Jul 2007, 2.9MB, 8min]**
 - Matt Huras discusses the new multi-threaded DB2 architecture in Viper 2.
- **Viper 2 Availability Enhancements [16 Aug 2007, 2.4MB, 7min]**
 - Dale McInnis outlines the High Availability (HA) enhancements in DB2 Viper 2.

DB2 9.5 GA

- Highlights of the DB2 Viper 2 Release
 - Increased integration between relational and XML functionality allowing for easy development and XML publishing of relational data
 - Greater knowledge and control of your systems with integrated workload management
 - Hand's off fail over with automated and easy to use high availability
 - Greater flexibility and granularity in security, auditing & access control
 - Simplified memory management and increased customization capabilities

<http://www-306.ibm.com/software/data/db2/podcast/>

IBM to acquire Cognos

- November 12, 2007 Announcement
- Cognos is a recognized industry leader and one of the largest providers of business intelligence and performance management solutions
- 25,000 customers and over 3,000 partners.
- Together, IBM and Cognos will become the industry's leading provider of technology and services for Business Intelligence and Performance Management.

IBM Acquires Princeton Softech

- Princeton Softech is a leading provider of
 - Data archiving
 - Test data management
 - Data privacy
 - Data classification and discovery software

Events



Learn



White Papers

- Introducing DB2 9: Application development enhancements
 - <http://www-128.ibm.com/developerworks/db2/library/techarticle/dm-0607ahuja/>
- Leveraging DB2 9 for z/OS pureXML technology
 - http://www-03.ibm.com/developerworks/wikis/download/attachments/1824/Leveraging_DB29_for_zOS_whitepaper_v1.pdf
- SQL and XQuery tutorial for IBM DB2: SQL and XQuery tutorial series for IBM DB2
 - <http://www.ibm.com/developerworks/db2/library/1p/sqlxquerytutorials.html>

White Papers

- Manage Microsoft Office 2007 documents with DB2 9 pureXML
 - <http://www.ibm.com/developerworks/db2/library/techarticle/dm-0705gruber/>
- Get started with Industry Formats and Services with pureXML
 - <http://www.ibm.com/developerworks/db2/library/techarticle/dm-0705malaika/index.html>



My Support

- The "My Support" page is not just for DB2 but for any IBM Hardware, Software or Services you may be interested in.
- 1. Register on IBM.COM. This is the same ID that you use to attend IBM Webinars. If you have never registered, go to:
<https://www-1.ibm.com/support/mysupport/us/en/>
- Select "**Register Now**"
- 2. If you are already registered, user IBM ID and Password to sign In.
- <https://www-1.ibm.com/support/mysupport/us/en/>
- 3. Once you are signed in fill out your Profile to build your custom "My Support" page.
 - Select the "Add Products" to indicate the products you want to be informed about
 - Select the "Subscribe to Email" tab and select the type of information you want to be notified about.

DB2 Magazine

- The DB2 Magazine is a FREE resource available to you.
- You'll find many articles written by DB2 Experts from around the world.
- Including:
 - Curt Cotner
 - Roger Miller
 - Susan Lawson
 - Sheryl Larsen
 - Bonnie Baker
 - George Baklarz
 - Paul Zikopoulos
 - Dwaine Snow
 - Scott Hayes
 - Grant Hutchison
- You can even write an article yourself.
- To subscribe: <http://www.db2mag.com/subscribe>
- If you have subscribed in the past and are no longer getting the magazine delivered, then subscribe again and select RENEW.
- You can also subscribe to the DB2 E-Newsletter at: <http://www.db2mag.com/newsletter/>



Latest Redbooks

- Draft Redbook – DB2 for z/OS Administration Tools for Enhanced Change Management
- Draft Redbook – WebSphere Portal for z/OS Version 6
- Draft Redbook – Oracle to DB2 Conversion Guide
- Redbook - Securing DB2 and Implementing MLS on z/OS
- Redbook - DB2 Express-C: The Developer Handbook for XML, PHP, C/C++, Java and .NET
- Redbook – DB2 9 pureXML Guide
- Redbook – LOBs with DB2 for z/OS: Stronger and Faster
- Redbook – DB2 for z/OS and WebSphere: The Perfect Couple
- Redbook – Systems Programmer's Guide to Resource Recovery Services (RRS)
- Redbook – Disaster Recovery with DB2 UDB for z/OS

DB2 Web Sites

- IBM Software for z/OS
 - ▶ <http://www-306.ibm.com/software/os/zseries/>

- IBM Data Management Tools
 - ▶ <http://www-3.ibm.com/software/data/db2imstools/index.html>

- DB2 Information Management Software
 - ▶ <http://www-306.ibm.com/software/data/>

- developerWorks : Information Management
 - ▶ <http://www-128.ibm.com/developerworks/db2>

- DB2 for z/OS Library
 - ▶ <http://www-306.ibm.com/software/data/db2/zos/library.html>

- IBM Redbooks
 - ▶ <http://www.redbooks.ibm.com/>

DB2 Web Sites - Support

- APAR Search
 - ▶ <https://techsupport.services.ibm.com/server/zseries.srchBroker>
- Data Management Consulting
 - ▶ Health Check
 - ▶ High Availability Health Check
 - ▶ Data Management Tools Services Health Check
 - ▶ Security Health Check
 - ▶ <https://techsupport.services.ibm.com/server/services>
- DB2 Library
 - ▶ <http://www-306.ibm.com/software/data/db2/zos/library.html>

DB2 Products



DB2 V9.1 for z/OS

- DB2 V9.1 for z/OS GA on March 16, 2007
- This new version expands the value delivered to your business through innovations in key areas including:
 - ▶ pureXML for on demand applications
 - ▶ Optimization Service Center
 - ▶ Unparalleled security and resiliency for business critical innovations
 - ▶ Improved data warehousing capabilities
 - ▶ Enhanced SAP and ERP vendor support
 - ▶ Improved cost of ownership and reduction in administration costs

QMF V9.1 and DB2 Tools

- QMF V9.1 Enterprise Edition GA on March 16, 2007
- Unparalleled business productivity with:
 - ▶ Visual query building
 - ▶ Multiple format reporting solutions
 - ▶ Create virtual “information appliances”
 - ▶ Improved OLAP analytics by “dragging and dropping” visual data elements

DB2 Software Downloads

- <http://www-306.ibm.com/software/data/db2/zos/dld.html>
- Optimization Service Center for DB2 for z/OS ***NEW Release**
- Visual Explain
- DB2 Estimator for Windows
- DBRM Colon Finder
- Control Center for DB2

DB2 Tools

- Administration Tools
 - ▶ **DB2 Administration Tools**
 - ▶ DB2 Automation Tools
 - ▶ DB2 HP Unload
 - ▶ DB2 Object Comparison Tool
 - ▶ DB2 Utilities Suite
 - Application Management Tools
 - ▶ DB2 Bind Manager
 - ▶ DB2 Test Database Generator
 - ▶ DB2 Path Checker
 - ▶ DB2 Table Editor
 - ▶ DB2 Web Query Tool
 - Performance Management Tools
 - ▶ DB2 Buffer Pool Analyzer
 - ▶ DB2 Performance Expert
 - ▶ DB2 Performance Monitor
 - ▶ Omegamon
 - ▶ DB2 Query Monitor
 - ▶ DB2 SQL Performance Analyzer
 - Recovery and Replication Management Tools
 - ▶ DB2 Archive Log Compression
 - ▶ DB2 Change Accumulation
 - ▶ Webshere Information Integrator Replication for z/OS
 - ▶ DB2 Log Analysis Tool
 - ▶ DB2 Object Restore Tool
 - ▶ DB2 Recovery Expert for Multiplatform
 - ▶ DB2 Data Archive Expert Tool
- * New Enhancements

Whats New with DB2 Tools

- DB2 Connect Monitoring
- SQL Exception Alerting
- Exploitation DB2 V8 – More than Toleration
- Schema Evolution
- System and Application Database Recovery
- Queue Replication to increase availability, flexibility and minimize administration
- Data Archiving

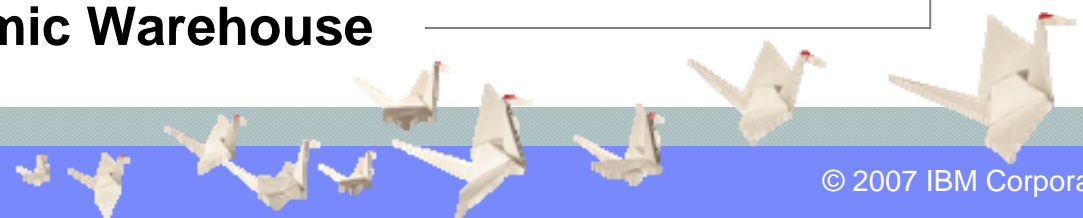
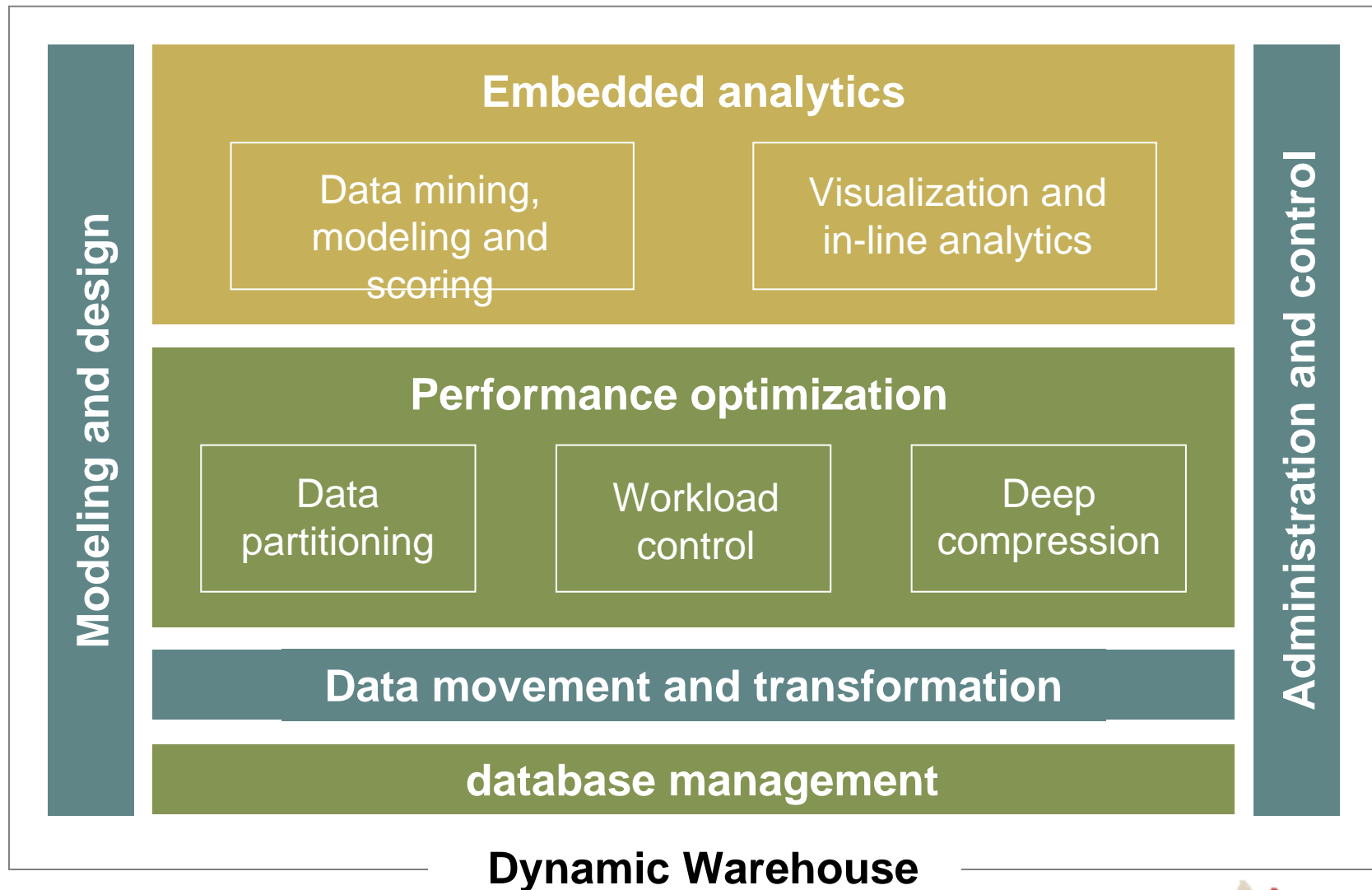
DB2 Multiplatform Tools

- DB2 HP Unload ***NEW Release**
- DB2 Table Editor
- DB2 Performance Expert ***NEW Release**
- DB2 Recovery Expert ***NEW Release**
- DB2 Web Query Tool
- DB2 Test Database Generator

The DB2 Multiplatform Tools support DB2 Universal Database (UDB) running on Linux (Intel32), UNIX, and Windows (LUW). All DB2 Multiplatform Tools support DB2 UDB Version 7 and Version 8. In addition, Try-and-Buy code for DB2 Multiplatform Tools is shipped with every licensed copy of DB2 UDB Enterprise Server Edition, Version 8.

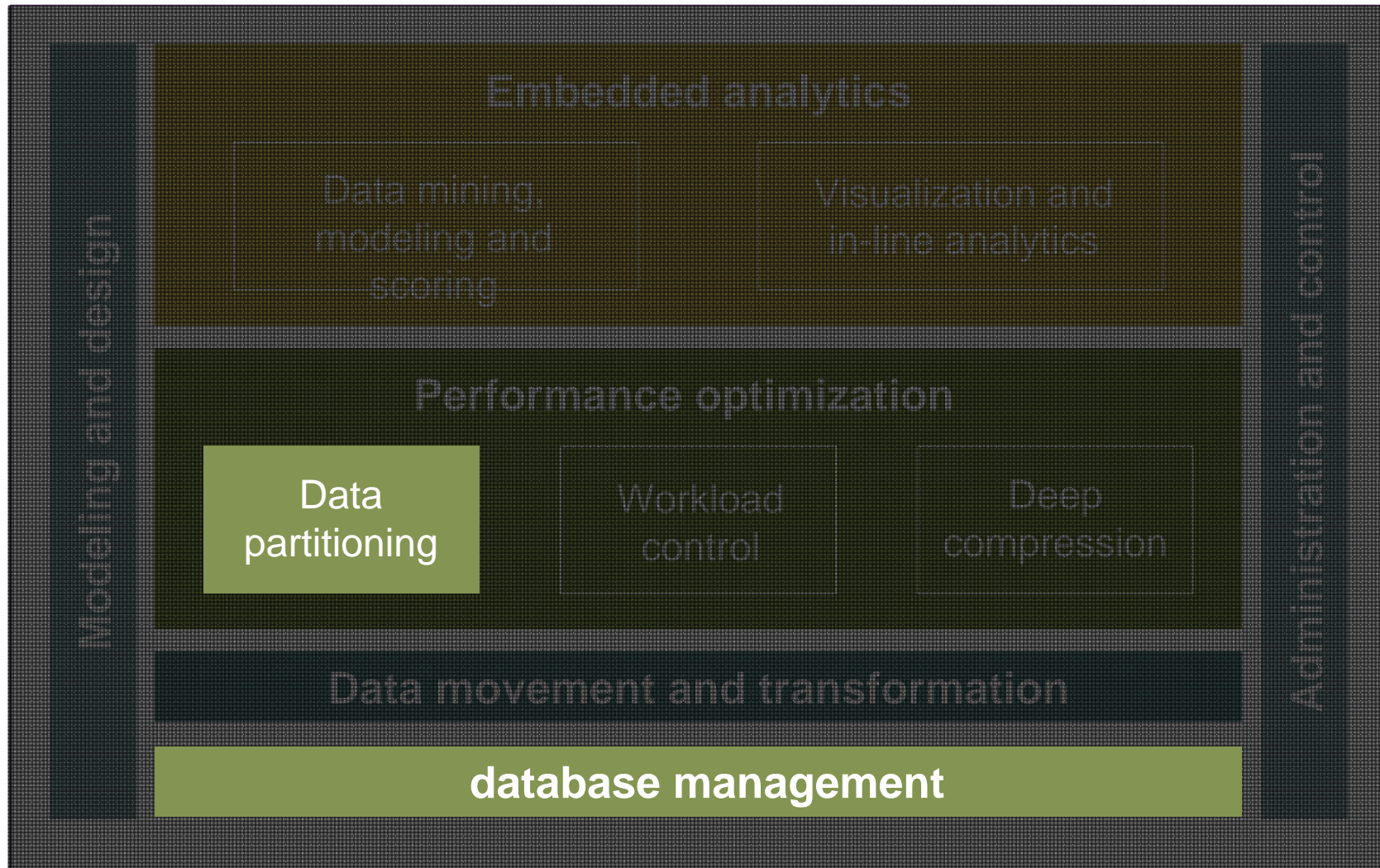
IBM Warehouse software

A complete, integrated platform



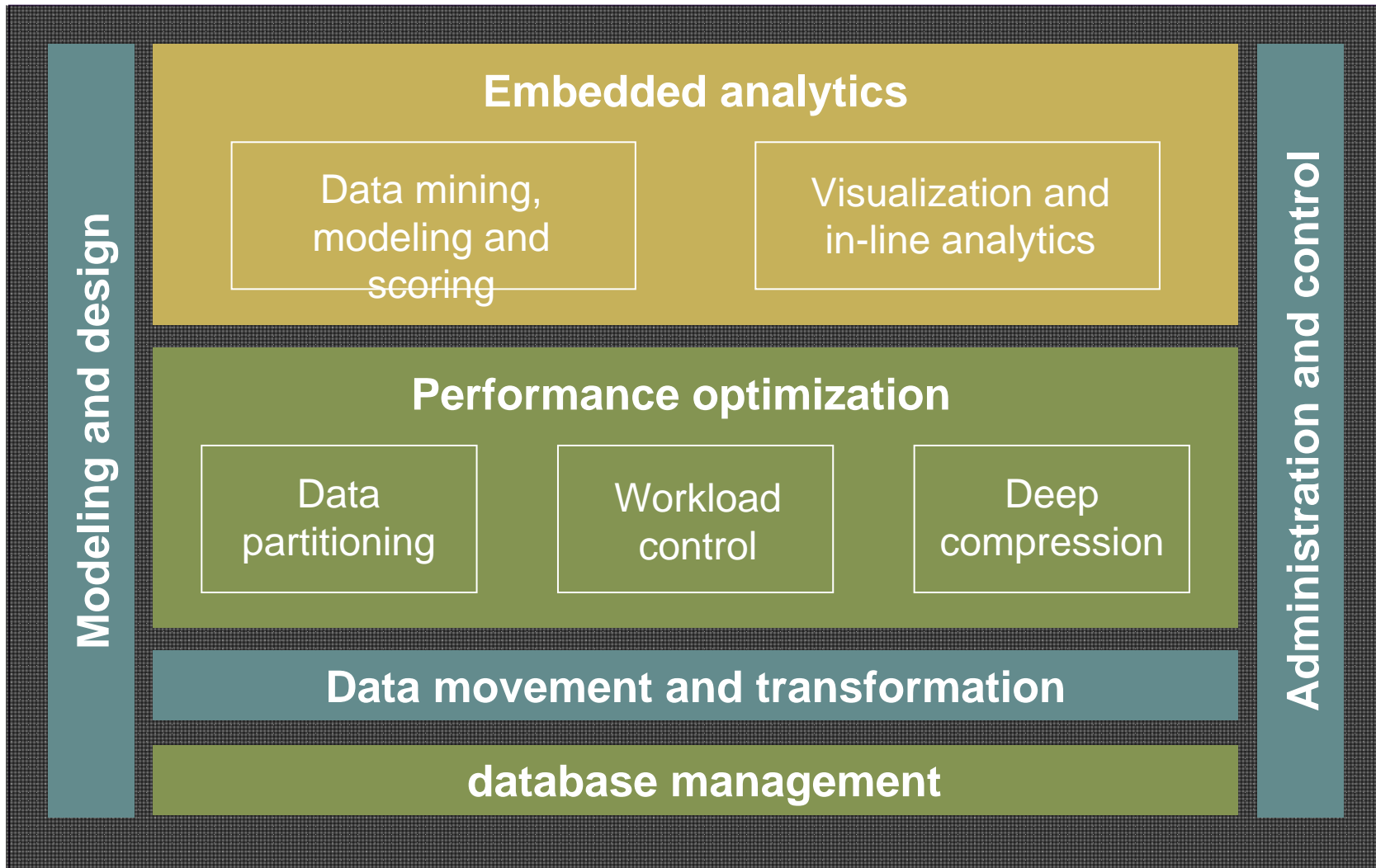
IBM DB2 + DPF

You are NOT using the tools we provide to make your life easier!



IBM DB2 Warehouse Enterprise Edition

A complete, integrated platform



Seamless integration of data modeling, SQL, mining in a common Data Warehouse project

Data exploration components give you an overview on the content and quality of your data.

Design Studio Mining Editor

from Design

The screenshot shows the Design Studio Mining Editor interface. On the left is a tree view of the project structure. The main workspace contains a workflow diagram with components: <Table Source> HEART, <Random Splitter> Random Splitter_02, <Predictor> Predictor_04, <Tester> Tester_09, and <Visualizer> Visualizer_01. On the right, a 'Table statistics of (240...)' window displays a table of field statistics:

Field name	Data type	Nulls
AGE	Continuoi	0
SEX	Categoric	0
PAIN_TYPE	Categoric	0
BLOOD_PRESSURE	Continuoi	0
CHOLESTEROL	Continuoi	0
SUGAR	Categoric	0
ECCG	Categoric	0
HEART_RATE	Continuoi	0
ANGINA	Categoric	0
OLD_PEAK	Continuoi	0
SLOPE	Categoric	0
NUM_VESSELS	Categoric	0
THAL	Categoric	0
DISEASED	Categoric	0

Below the table are three histograms for AGE, BLOOD_PRESSURE, and CHOLESTEROL. A red arrow points from the 'from Design' text to the Visualizer_01 component in the workflow.

Interactive flow editor: Stepwise execution All SQL operators can be reused in the mining context

to embedded applications

The screenshot shows a Microsoft Internet Explorer browser window displaying a clustering visualization application. The address bar shows 'http://9.15...'. The main content area features a grid of charts and a list of customer segments. The segments include:

- Carry-On S
- Merlot Dining C
- MAHAGONI T
- ESPUMAT
- CUCHARON N 123503
- PLATO PC
- PLATO POSTI DS979*IM018:

Each segment is associated with a pie chart and a bar chart. At the bottom, there is a 'Cluster size' legend with a color scale from 3.33% to 32.33% and a '9 clusters' indicator.

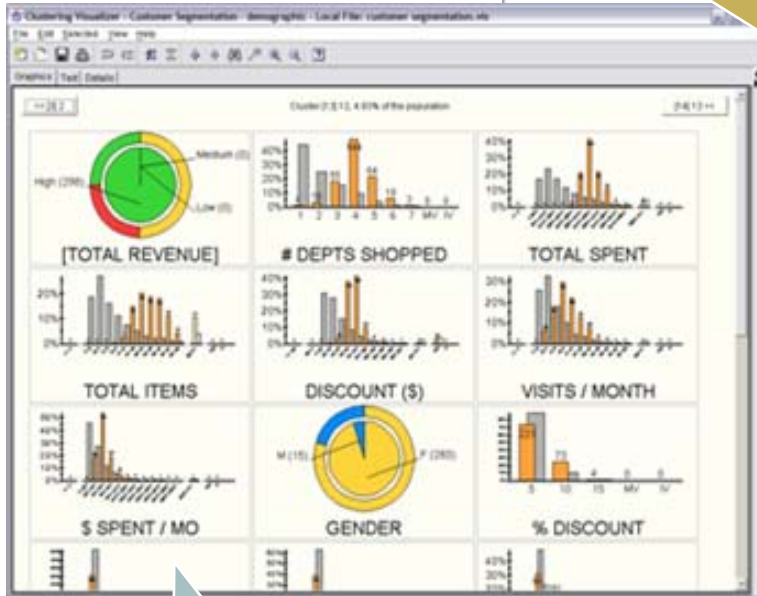
Simplicity

Extended Insight

Deliver inline visualization and analytics

Embedded analytics capabilities

Can be embedded directly into applications and Web pages



Out-of-the-box visualization tools

The screenshot shows the Huntington National Bank website interface. At the top, there's a navigation bar with links like 'About Us', 'Contact Us', 'Careers', etc. Below that, a search bar and a menu with categories: 'Personal', 'Business', 'Planning & Tools', and 'Customer Service'. The main content area features a 'Goal Tracking' chart with a horizontal bar chart comparing 'Actual' (green) and 'Goal' (grey) performance across five time periods (10-04, 10-11, 10-18, 10-25, 10-31). Below the chart are promotional sections: 'How can we help you today?' with dropdown menus for 'Help me' and 'I want to'; 'Ring in the new year with lower bills!' with a link to 'Learn more today.'; 'Check into the right checking account today!' with a link to 'Learn More'; 'TurboTax for the Web' with a link to 'Learn More'; and 'The Simple Truth' with a link to 'Learn More'. On the right side, there's an 'Online Banking' login section with fields for 'Username' and 'Password', and a 'Log In' button. Below that is a 'Locator' section with 'Select Location Type' (Banking Office, ATM) and 'Zip Code' fields. At the bottom, there's a map of the United States and a footer with legal disclaimers and copyright information: '© 2006 Huntington Bancshares Incorporated'.



Announcing IBM DB2 Warehouse 9.1.2 Offerings

Flexibility to Meet Customer Specific Needs

Enterprise Base Edition

Departmental Data Marts, Basic Reporting Data Warehouses and SAP Business Warehouses

Unlimited Warehouse Size

Administration & Control Tools

Modeling & Design Tools

Data Movement & Transformation

Database Partitioning

Advanced Edition

Smaller Warehousing Applications and Data Marts that Require High Performance Characteristics

Limited to 2 TB

Administration & Control Tools

Modeling & Design Tools

Data Movement & Transformation

Database Partitioning

Workload Control

Deep Compression

Enterprise Edition

Enterprise Warehousing Solutions Requiring Advanced Business Insight and Optimization through Analytics

Unlimited Warehouse Size

Administration & Control Tools

Modeling & Design Tools

Data Movement & Transformation

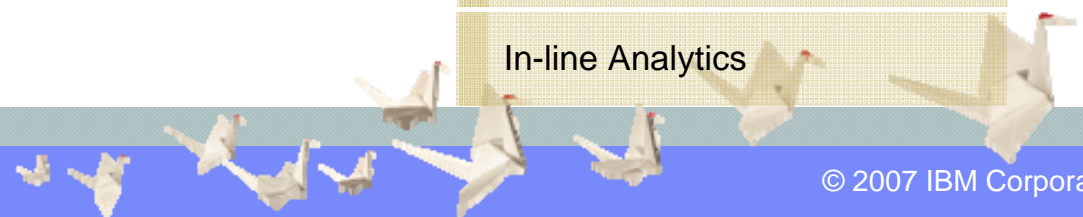
Database Partitioning

Workload Control

Deep Compression

Data Mining & Visualization

In-line Analytics

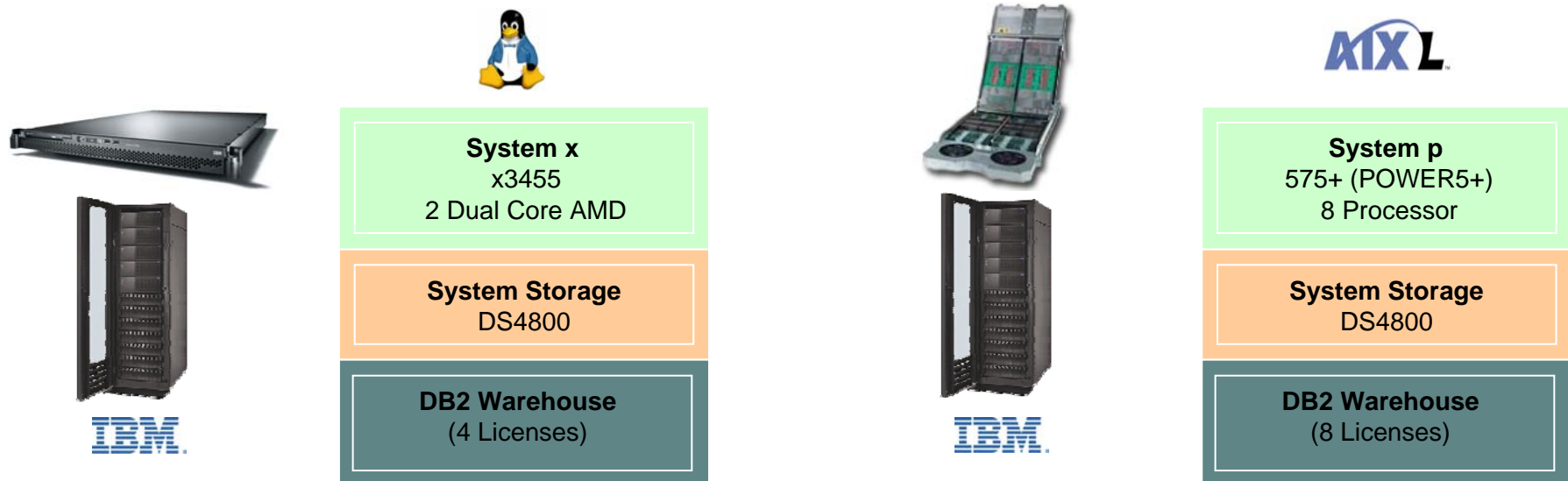


IBM Balanced Warehouse

What is a 'BCU'?

A BCU (..or Balanced Configuration Unit) is a pre-configured, pre-tested allocation of server, storage and software resources, balanced for optimum performance.

– Data BCU: Is the modular scalable unit that grows the IBM Balanced Warehouse.



Note: Balanced Warehouses will scale in sizing units associated with the BCU.

– *With our current BCUs this would be 1 and 2 TB units, for Linux and AIX respectively.*

How The Balanced Warehouse Is Delivered – The IBM Cluster 1350

Unpack & Configure

vs.

Plug It In & Go



Introducing IBM Balanced Warehouse Solutions

Flexibility to Meet Customer Specific Needs

D-Class

IBM Balanced Warehouse™

Small to Mid-Size Data Warehouses

1TB to 5TB

Modular Scalability

Mid-Range Hardware & Storage



E-Class

IBM Balanced Warehouse™

Large Enterprise Data Warehouses

4TB and up

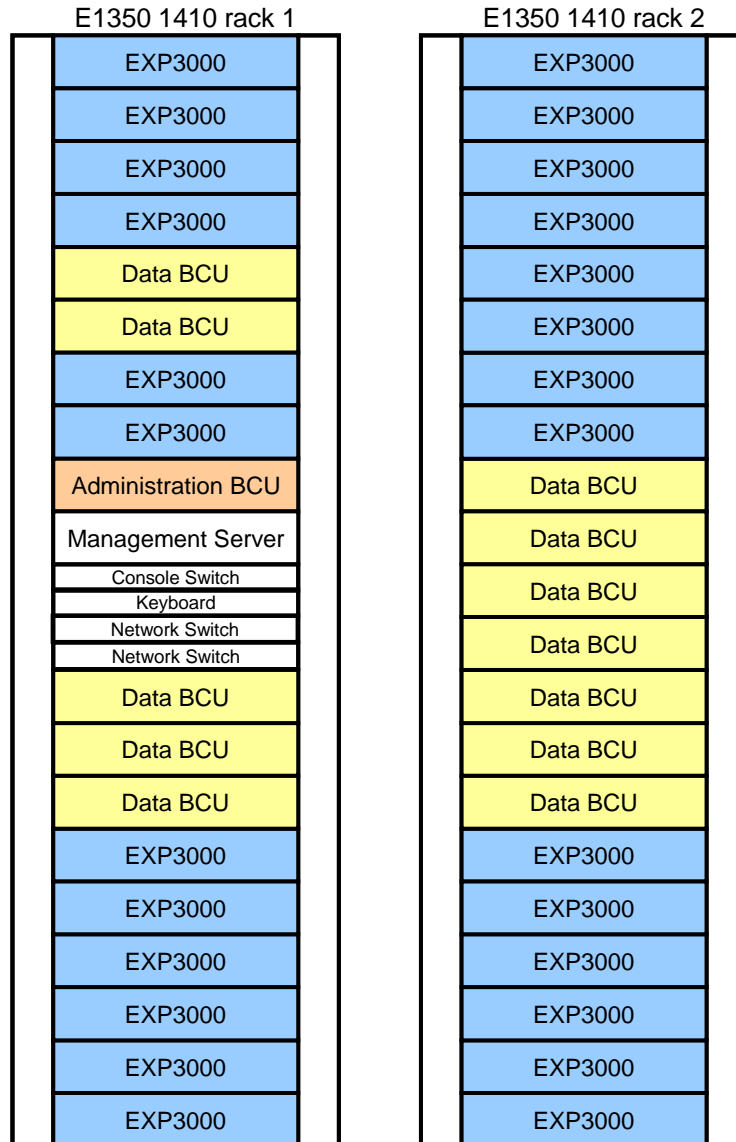
Unlimited, Modular Scalability

High End Hardware & Storage



IBM Balanced Warehouse

Scalability



10 TIBB ...