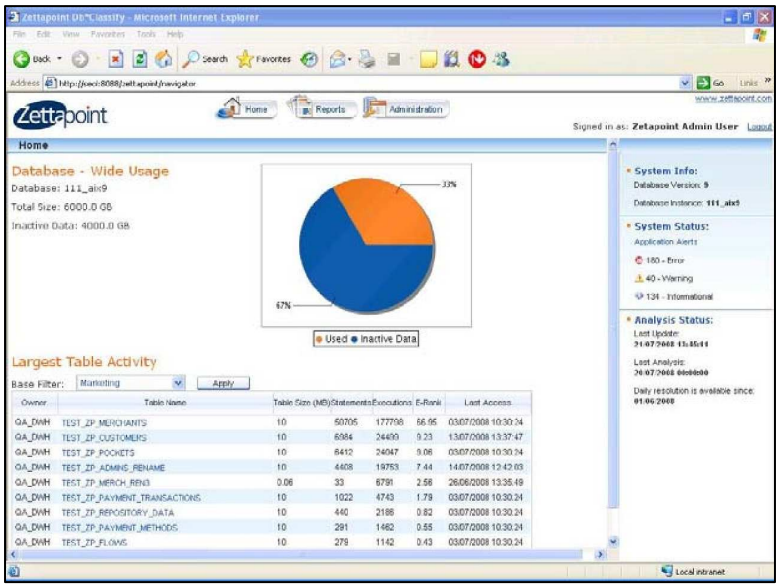
DBclassify™

Usage-Based Data Classification for Optimizing Oracle Database Environments

IT organizations face significant challenges as they seek to cost-effectively manage the continued growth of database environments *while* delivering optimal business user performance. DBclassify differentiates actual data usage patterns of database objects and automatically categorizes them by their importance to business users. This provides the ability to place the right data on the right storage tier, thereby, promoting a balanced and intelligent storage environment.

Cost-Effective Storage Management through Right Tiering[sm]

Right Tiering is where data is classified by actual business usage and value, and then placed on the appropriate storage tier to consistently deliver the highest possible service level at the lowest possible cost. Right Tiering optimizes the placement of data on the right devices, on the right tier and at the right cost. With DBclassify, you will realize significant cost savings while maintaining or improving end-user performance goals.



DBclassify automatically classifies structured data through a comprehensive analysis of actual usage patterns

In general, Right Tiering provides two main business benefits:

1. Improved SLA compliance for business users by significantly reducing I/O wait time for the most critical applications.

2. Reduced TCO by placing the right objects on the right tier based on their usage patterns (e.g. highly used “hot” data on fast devices; seldom used “cold” data on slower devices, etc.).

Zettapoint Ltd. 45 Walden St., Concord, MA 01742 USA (978) 369-9900 info@zettapoint.com
www.zettapoint.com

Full Visibility into Real-Life Data Use

DBclassify shows you:

- Which tables and columns are the most frequently used, and which are seldom used or dormant
- Which database objects are used by which applications and users
- Who accesses the data
- The ranges of data values are most frequently queried by business users, and which are never queried
- The data has the most/least value to business users
- Whether data access is different to what was planned or expected

> *We were able to identify terabytes of inactive data that we then moved to lower-tier storage. The ROI was immediate and obvious.*
> Keren Amar
> Data Warehouse
> Department Head

DBclassify provides an ideal solution for optimizing data models based on actual usage patterns, formulating intelligent indexing and aggregation strategies, and implementing cost-effective database information lifecycle management (ILM) policies.

Solving the problem with Right-Tiering

DBclassify takes into consideration actual, detailed data access and usage characteristics of the workloads serviced by the database, and classifies that data by its usage profile or **"temperature".** Only data classified as mission-critical (**"hot"**), frequently accessed by high value applications and users, should be stored on Tier 1 (e.g. high performance disks or Tier 0, SSD). Less frequently accessed, but still important, (**"warm"**) data with less stringent service level requirements is relegated to lower performance, higher capacity storage devices (e.g. SATA). Dormant (**"cold"**) data, typically historical or static, can be marked for archival storage.

DBclassify Unique Technical Highlights

- Non-invasive, high-speed data collection
- Real-time SQL capture (with configurable sample rate)
- Filters output according to business units/organizational structure
- Full visibility into all query traffic including local connections and stored procedures
- Extensive reporting (multi-format; browser-based)

DBclassify Benefits

- Significant cost savings by Right Tiering storage system
- Accelerate application performance by identifying prime candidates for tier 0
- Optimize database performance through agile database design; save DBA time
- Accelerate ETL processing
- Deliver data access auditing for security, fraud detection, internal/external governance or charge-back
- Reduce time, cost and risk of database consolidation or migration projects

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