

# **DBArtisan® 8.6 New Features Guide**

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# **New Features Summary**

#### **Oracle Graphical Query Plan support**

Graphical Query Plan support, previously provided for other DBMS platforms, is now available for Oracle. With the ISQL editor in Show Plan mode, executing a script now displays a graphical representation of the query plan for the script. You can drill down to view details on individual steps, toggle between graphical and tree-based views, and make use of a number of viewing options.

#### **XML Support**

Support for XML has been expanded for release 8.6. XML parameters can now be passed to stored procedures. DBMS-specific upgrades include:

- Results grid and Data editor support on Oracle
- Optional inclusion/exclusion of XML columns when collecting statistics against DB2

#### **Unicode Support**

Similarly, support for Unicode has been expanded for release 8.6. Previously only supported in the Text editor, now the Results grid and Data editor support Unicode characters. Datatypes that can be displayed or entered differ according to the DBMS platform.

#### **SQL Pre-processor**

DBArtisan 8.6 offers SQL preprocessing similar to C language compiler directives. The ISQL Editor supports simplified versions of the #define and #include directives.

#### **Expanded DBMS support**

DBArtisan functionality available for Microsoft SQL Server 2000 and Microsoft SQL Server 2005 is now available for Microsoft SQL Server 2008. DBArtisan 8.6 also introduces support for Sybase 15 Cluster Edition. To account for Sybase clustered servers, 8.6 features updates to the data source registration process and a revamped Data Cache editor.

#### **Extraction and Migration Wizards**

The extraction/ migration wizards feature a more intuitive user interface. Improvements include:

- Text search qualification to narrow choices during data source or database selection
- Side-by-side object type and specific object selection for improved dependency handling
- Dependency defaults specified on a DBMS-by-DBMS basis.
- A new preview pane provides detail on the results of the extraction/migration

### **Additional currency features**

As with other releases of DBArtisan, Embarcadero has responded to customer requests for additional or improved feature support. General improvements include Vista support upgrades and 64-bit Backup Analyst support.

# **Top New Features**

Top new features for this release fall into the following functional categories:

- User Interface Improvements
- Sybase Cluster Edition
- Explain plan
- SQL Execution
- Data editor
- Database Object Management
- Extraction and Migration Wizards

### **User Interface Improvements**

DBArtisan 8.6 continues the reworking of object editors and wizards. Aimed at improving workflow and the user interface experience, the new editors and wizards adopt a .NET look and feel, and are being reworked for consistency.

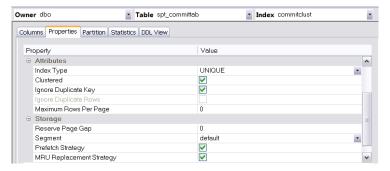
#### **Toolbar**

DBArtisan now provides greater control over the toolbars displayed in the application. Freeing up real estate by eliminating infrequently used commands, default display now includes a single toolbar. Additional toolbars can be added as needed.



#### **Object and Wizard Updates**

General improvements to the DBArtisan object editors and wizards include replacement of TRUE/FALSE combo boxes with check box controls.



#### **Improved Options Dialog**

The Options editor has been substantially reworked.



Key improvements include:

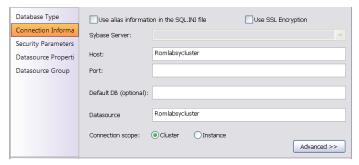
- Page navigation is now tree-based. Expand/collapse icons provide access to tabbed pages.
- A text filter lets you type search text and have only those pages with the specified content displayed in the page navigation tree

## **Sybase Cluster Edition**

This release introduces support for Sybase Cluster edition.

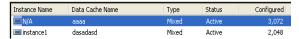
#### Instance/Cluster Connection

Data source registration lets you specify connection to an instance or to the entire cluster.



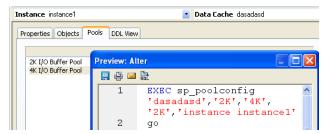
#### **Available Instance Information in Datasource Explorer**

Related updates include Datasource Explorer display of the instance name for data caches.



#### **Updated Wizard/editor**

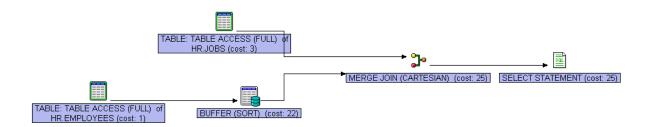
The wizard and editor for creation and editing of data caches have been revamped to account for new Cluster Edition-based features. When adding a pool to a local data cache for example, DBArtisan respects the instance on which it was created.



### **Explain plan**

#### **Graphical Query Plan Support for Oracle**

With the ISQL window set to Query Plan mode, clicking the Execute button now opens a window showing a graphical representation of the generated query plan.



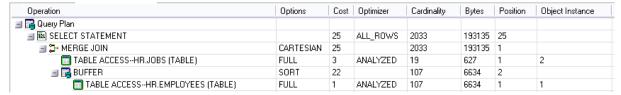
DBArtisan provides a full range of functions for working with the graphical query plan. You can obtain detailed information on each node in the plan by hovering the mouse over the node. DBArtisan also provides a facility for searching nodes in particularly large plans:



Viewing options include zoom functions and the ability to change the orientation. You can also save a .GIF representation of the Query Plan.

#### **Updated Look for the Traditional Tree-based View**

The standard tree-based view for query plans is still available. Icons displayed in the traditional tree view have been updated for a more graphical look. DBArtisan lets you toggle between the two views.



#### **DB2 Shared Explain Plan**

Explain Plan tables can now be stored in either SYSTOOLS or in the default schema. You specify your choice on the Options dialog.

#### **SQL Execution**

#### SQL Server 2008 Date/Time support

Procedure execution has been updated to support datatypes newly available with SQL Server.



#### **Double Byte Character Display and Unicode Support**

Support for Unicode data types, including character, varchar and clob on SQL Server, Sybase, Oracle and DB2, has been added to the SQL Results view. If the Regional code page selected in the OS supports the characters used in the Unicode fields, the data will be displayed correctly in the results view. This is also true of fields containing double byte data reflective of the Regional code page.



#### **SQL Pre-processor**

DBArtisan 8.6 provides SQL preprocessing similar to C language compiler directives. The ISQL Editor supports a simplified version of the following

- #define provides a simple, global search and replace function within a script. This is useful, for example, with variable substitution at execution time (#define &&owner dbo).
  - Note: Variables must be prefixed with "&&".
- #include provides a means to include the contents of a file in a script at the location of the directive, during execution. File locations, specified globally or by data source, are selected in the Options editor.

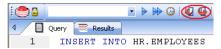
Preprocessing execution options are controlled by the Preprocess button on the ISQL toolbar. It lets you set the mode for subsequent executions:



Directives can be preprocessed only or can be both preprocessed and immediately executed.

#### **Transactional Support**

Auto-commit can be disabled for any platform and transactional management, via the UI or script, can be used instead. Addition isolation level support has been added to DB2.



### **Data editor**

#### LOB and XML support

XML data and other LOB data can now be modified and added in the data editor.



#### SQL Server 2008 Date/Time support

Fields of Date or Time data types can be modified in data editor.

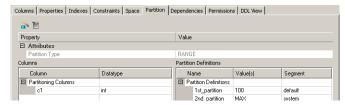
#### **Double Byte Character Display and Unicode Data Support**

Unicode characters or double byte data in a table can be modified in the Data editor.

## **Database Object Management**

#### **Sybase Partitions**

New in Sybase ASE 15 are three forms of semantic partitioning. In addition to the existing round robin partitioning, range, hash and list variations are now available. The DBArtisan wizards and editors for tables and indexes have been upgraded to provide support for these options.



In addition, support is provided for the following, related Sybase features: Update Statistics, Delete Statistics, Reorganize, Truncate Table, DBCC Check allocation, Check Table, and Check Index.

#### **Sybase Data Cache**

Object binding and memory pool additions do not have to be created immediately. Rather, the information is collected and only committed when Alter is executed.

#### Sybase Device Enhancements

Devices now include properties to improve the performance of a device with high write activity by disabling DSync. In addition, you can force the device to write directly to disk rather than using buffers by enabling DirectlO. Finally the size parameter has been modified to accommodate large devices by letting you specify size in kilobytes, megabytes, gigabytes or terabytes.

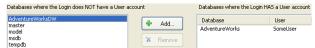


#### **SQL Server Login Updates**

The Login editor has been updated to include support password policy enforcement, password expiry, login encryption using certificates or asymmetric key, and abilities to immediately change the password and enable/disable logins.

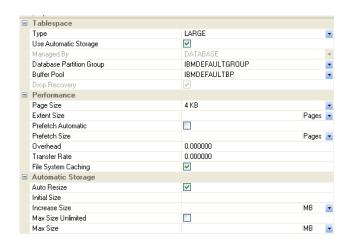


In addition, it is now easier to add a login to specific databases.



#### **DB2 Automatic Storage**

The Tablespace editor has been updated to include options to enable automatic storage and provide resize options. Disk usage is now available on the Space tab.



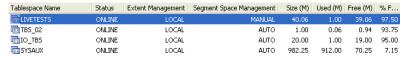
Buffer pools also reflect options for specifying automatic storage. You can also now modify the number of pages to use in a block.



#### **Oracle Tablespaces**

Updates to the Tablespace editor include new 10g options for setting a table space as the default and renaming a tablespace. Other improvements include bigfile support, and upgraded UI support for the CHANGE STATUS, COALESCE, and SET UNDO TABLESPACE commands.

Datasource Explorer display for Oracle tablespaces has been updated to indicate Extent Management and Segment Space Management.

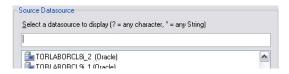


## **Extraction and Migration Wizards**

DBArtisan 8.6 continues with improvements to the recently revamped Extraction and Migration Wizards. The key functional addition is finer control over dependencies for ad hoc extraction. As well, both wizards now provide a more intuitive user interface.

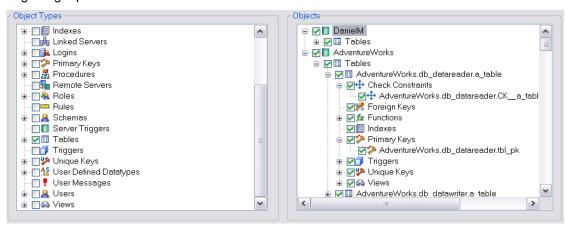
#### **Data Source and Database Selection**

There are now search boxes included in the selection to assist in locating and selecting the target data source or database.



#### **Object and Dependency Selection**

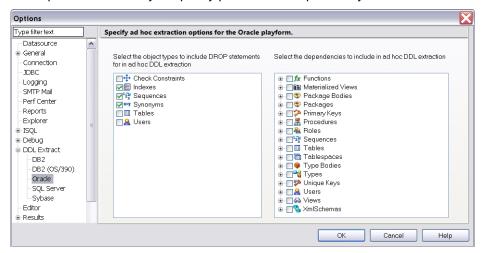
It is often confusing to determine which items are actually going to be included in an extraction or migration job because different dependency selections can result in different objects being selected. This is further complicated by deselection of individual objects being overridden and re-included as being part of a dependency. You can now select which child objects are included when extracting or migrating a parent.



Object type refinement is included on the same page as the individual object selection. Both trees stay synchronized as you make selections. The child objects can be individually selected or deselected using the objects tree.

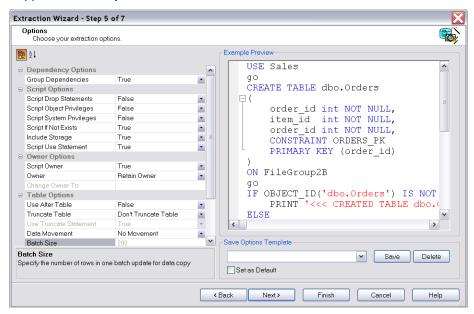
#### **Dependency Defaults**

The Options editor lets you specify parent/child dependency defaults on a DBMS-by-DBMS basis.



#### **Preview Option**

As an aid in understanding the effect of changing extraction or migration options, wizard a preview pane has been added. The preview updates as options are selected or changed, and reflects what will happen when the job is run.



## **Additional Currency Features**

In response to customer requests, a number of new or enhanced features are now available. General enhancements include:

- Vista support upgrades New Windows Vista support upgrades include support for Vista scheduling practices, and enhanced support for user types, display technology, and MSXML 3.0 compilation
- 64-bit Backup Analyst support DBArtisan 8.6 introduces Backup Analyst support on 64-bit operating systems (Windows XP Professional, Windows Server 2003, and Windows Vista) hosting Microsoft SQL Server 2000 and Microsoft SQL Server 2005
- Additional XML support Stored procedures can now take XML input, implemented as LOB data, at execution or debugging time
- Virtualized Text editor content The DBArtisan text editor has been updated to provide better performance when working with large files, such as extracted schema, large CLOB data or other ASCII results.

DBMS-specific updates include the following:

 Against DB2 data sources, the Update Statistics function now lets you optionally exclude XML columns when collecting statistics for a table

## **Additional Resources**

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