

Druid: The Database Manager Documentation

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1. About

1.1. Welcome to Druid: The Database Manager

1.1.1. What it is

The druid is a tools that allows users to create databases in a graphical way. The user can add

tables, fields, folders to group tables and can modify most of the database options that follow the SQL-92 standard. In addition to sql options, the user can document each table and each field with HTML information. Once the database is created, the druid can generate:

- **HTML documentation:** for all tables, with browsing facilities
- **PDF documentation:** for all tables
- **Java classes:** (one class for each table) that contain tables' constants (such as fields size) plus java code added by the user
- **A data dictionary** that contains all tables and fields present in the database
- **SQL script** which contains all table definitions that can be piped to the DBMS
- And much more info...

1.1.2. Features

- Graphical editing
- Tables groupable in a hierarchy
- Extended generation capabilities including HTML documentation, Data Dictionary, SQL script, Java classes
- Custom datatypes for the database that are mapped into real DBMS datatypes
- Revision history and automatic build increment
- Custom java code for each table
- Table summary
- Table editing facility
- Automatic table localization for multi-language applications
- Cut & Paste

1.1.3. More Info...

This page refers to release 1.0. For more (and updated) information please visit the [Druid Project](#) on SourceForge

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Version 2, June 1991

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1.3.

1.4. Hall of Fame

1.4.1. Contributors

Here is the people that helped to build Druid. In strictly alphabetical order:

Name	Work
Marco Allegretti	MySQL template
Paul Boos	E/R features
Andrea Carboni	Project Started and Project Leader
Mirko Caserta	Basic tutorial
Nicolae P Costescu	Features
David Croy	Patch for PostgreSQL and MySQL
Guillaume Deflache	1.0 to 2.5 converter
Paul Evans	Help with docs
Antonio Gallardo	Modules localization
Misko Hevery	Generation modules, bug fixing
David Hoag	Query import module
Jim Meyer	Packaging
Randolf C. Richardson	Features
Nuno Rodrigues	Features, beta testing
Hristo Stoyanov	Xml features
Emanuele Tajariol	Bug report, features
Bruno Vernay	XHTML for docs gen. module
Tomasz Wysocki	Patch to Java/JDO

1.5. History of Changes



[RSS](#)

1.5.1. Version 3.2 (unreleased)

- Website updated using Apache Forrest. (AG)
- Added new letter and legal Paper Size for PDF generation (AC)
- Improved sql gen architecture (AC)
- Added sql gen modules for : oracle, postgres, hsqldb, mckoi (AC)
- Added sql adapter architecture. This allows to import views, proc/func and sequences (AC)
- Added sql adapters for : mckoi (AC)
- Added possibility to name table constraints (PKs, FKs) and indexes (AC)
- Added preview for : views, procedures, functions, sequences, triggers (AC)
- Added options in options dialog : create backup, save jdbc password (AC)
- Added possibility to run druid as an ant task (AC)
- Added patch to Java/JDO generation by Tomasz Wysocki (AC)
- Added stats for folders (AC)
- Improved integrity check when generating sql: checks on empty type's size, empty sets and invalid min/max values for domains (AC)
- Added field attribs usage and merging (AC)
- In datatypes and fields usage, a double click on a row of the dialog shows the selected table (AC)
- Added shortcuts DEL, CTRL-C, CTRL-X, CTRL-V to: project view, datatypes view, sql navigator, er view, all tables (AC)
- Added shortcut DEL to: trigger view, rules views (AC)
- Added other datatypes to the postgres db template [779257] (AC)
- Added DocBook generation module (by Bruno Vernay) (AC)
- Improvements on E/R view: [776677] Added "snap to grid" when dragging er entities (CTRL key) [775914] All entities can be translated when panning (CTRL key) [510125] Added possibility to show only name+pk+fk (to see relations) [510125] Added tooltips to relations to show imported/exported keys (AC)
- Added tab table->extra. Added the possibility to specify sql commands (AC)
- Removed code for loading old formats (< 3.0 beta) (AC)
- Option "Use comments" moved from GUI to sql gen modules (AC)
- Tablespace moved from GUI to Oracle module (AC)
- Removed dbGen module (AC)
- Sql gen module : padding is now automatically calculated [781309] (AC)
- Replaced "Extra SQL" tab for tables with new architecture (AC)
- Removed template substitution for indexes (AC)

- Removed "Don't resolve bit" : now the pg "serial" type is handled differently by the postgres module (AC)
- Due to heavy changes the old releases cannot load data saved by this one (AC)
- Improved table's sql preview (AC)
- The jdbc sql module choice has been moved inside the "Rebuild in jdbc" menu (AC)
- Improved html summary module and added ' '; to table cells (AC)
- Added a version to the project file (AC)
- PDF gen : Font sizes for 'normal', 'code' and 'table cell' set to 10 Table's sql summary : reduced size of name and type and increased size of string attribs (AC)
- XHTML gen : empty vars, triggers and rules are not generated now (AC)
- JDBC : - table and field comments are now properly imported - Postgres : during jdbc rebuild, old table sequences are now removed (AC)
- Database PreSql and PostSql textareas have now the same size (AC)
- Removed tab table->edit data (AC)
- NullPointerException when starting druid if there are no scan privileges (AC)
- Druid Error when dragging a table into a different DB width different field attribs (AC)
- Fixed bug in the druid loader that caused a NullPointerException on windows (AC)
- Fixed bug [781292] : generated html had cells without ' '; (AC)
- If a table is removed all E/R views are now correctly updated (AC)
- Fixed bug [781289] : removed leading '/' on windows (AC)

1.5.2. Version 3.0 (27-Jul-2003)

- Added docs generation module in PDF format (uses iText) (AC)
- Added localization to XHTML docs generation module (by Antonio Gallardo) (AC)
- Added many docs (AC)
- Added all bindings to velocity (AC)
- XHTML docs generation : Improved ER/Views thumbnails (AC)
- Removed unused imports (by Antonio Gallardo) (AC)
- Documentation moved from html to pdf and revised (AC)
- XHTML docs generation : now generates correct XHTML (fix by Bruno Vernay) (AC)
- Postgres sql gen module : fixed bug in sequence creation (AC)

1.5.3. Version 3.0 beta (04-Jun-2003)

- Added basic tutorial (by Mirko Caserta) (AC)
- Added mySql template (by Marco Allegretti) (AC)
- Added new dialog when loading/saving projects (AC)
- Added the possibility to import databases from another druid project (AC)
- Added text antialiasing and improved GUI look (AC)
- Added docs to triggers (AC)
- Added doc editor (AC)

- Added notes object to contain notes that don't fit anywhere (AC)
- Added sequences (AC)
- Added rules to table (generic constraints) (AC)
- Triggers are now rebuilt in the jdbc database (AC)
- Added `{cfields}` to custom indexes (AC)
- Added new Sql diff module (AC)
- Changed sql-panels font to "monospaced" to avoid font problems (AC)
- Changed the font of the online docs to arial (AC)
- Reading of project files is now 40% faster (AC)
- Most dialogs now are not recreated and maintain old location/size (AC)
- Changed about dialog and added tools tab (AC)
- Cut & paste now works for different objects in different databases (for example, it is possible to paste a field from another table) (AC)
- Removed footer attrib from docs (databases and tables). Anyway, old data is correctly imported (AC)
- Changed `xxx` for custom indexes (see docs) (AC)
- Improved velocity support : now all database information can be accessed (AC)
- Improved html docs generation. Added triggers, rules and er-views (AC)
- The druid file is now saved in UTF-8 (AC)
- Config file is now saved in a hidden directory under linux (AC)
- Fixed bug in database -> field attribs : changing the attrib type didn't set the value to its default (AC)
- Fixed serial datatype in postgresql template (AC)
- After opening a project, this was considered already modified (AC)
- On cyclic fkeys, the DataTypeLib hanged (AC)
- Datatype selector : the fkey panel sometimes remained hidden (AC)
- Fixed bug that caused the "changed" status to the project when selecting nodes in a specific order (AC)
- During loading, xml text where not decoded (AC)
- In the trigger panel, on insert/update/delete change the "changed" event was not fired (AC)
- During a copy operation, triggers where not copied (AC)
- Fixed wrong icons when editing trenodes text (AC)
- In the database/options tab, if the user changed some options the data generation didn't use the new values (AC)
- Jdbc : - db structure->datatypes : Fixed "maps to" column - Fixed exception raised with dbms that don't support UDTs - Fixed the wrong decimal digits with McKoi which returned -1 - Work around in the record-editor : there was a problem with oracle 8.1.7 and null values that caused an exception in the PreparedStatement - Work around in the record-editor : oracle 8.1.7 rised an exception when inserting new data in an empty table -

Fixed bug in the record-editor : there was a parameters mismatch when nulls were present
- Fixed entities order when rebuilding entities via jdbc (AC)

1.5.4. Version 3.0 INT (19-Oct-2002)

- One config file for each user (AC)
- E/R diagrams: - Now the E/R import dialogs works on folders (all tables in a selected folder and subfolders are imported) - The E/R image can be saved as png (AC)
- Druid is now current path independent. Also, you can use environment vars to specify several paths in order to split druid into pieces (each piece in a separate directory) (AC)
- Improved plug-in architecture. This include: - db import /export modules plug-in - data import / export modules plug-in for jdbc records - generic and template module plug-in - jdbc panels and record editors module plug-in (AC)
- Added new modules: castor (from Misko Hevery) (AC)
- Added jedit syntax highlighting package - syntax for sql and code (c,c++ and java) - expanded sql syntax to include oracle - added cut & paste (AC)
- Java module - Now it is possible to generate or not constants - Added generation of field names - Added JDO generation (from Misko Hevery) (AC)
- Sql script : possibility to use tablespaces or not (same for sql comments) (AC)
- Added queries import module by David Hoag (AC)
- Added xml modules for data dictionary, summary and docs (AC)
- Added html module for summary (AC)
- Added velocity template engine (by Misko Hevery) - Added template to generate simple summary (AC)
- Added "generic" and "template" options to "-gen" command of CLI (AC)
- JDBC : - Database entities are now loaded on the fly (faster data retrieval) - More info showed for UDTs - Sql navigator - Added query import module (by David Hoag) - Now it is possible to export and reimport, via the ddf format, the following sql types: binary, varbinary, long varbinary, long varchar, blob, clob - Data editing : - Changed Integer to Long to edit large integers - Added possibility to specify max number or rows to retrieve - Added 'fit' and 'autosize' buttons for table columns - Added possibility to search data into the table ('find' control) - Column width are preserved between refreshes - Data is loaded only if the 'Data' tab is visible (from David Croy patch) - Record editor : - Now it is possible to edit long varchars, but the update method works as is the result-set is not updatable (workaround for oracle) - Now the record editor is embedded into the data editor - SqlNavigator : - Added 'fit' and 'autosize' features - Now refresh maintains column widths - Added 'max rows' feature - Added find textfield (AC)
- Avoid refresh in treeviews when the same node is selected (AC)
- Added docs for issues with postgresql (from Nuno Rodrigues) (AC)
- For tables and fields : added possibility to specify comments (AC)
- Added triggers to tables (AC)

- Sql generation module : - Changed object generation order (function first) - Added possibility to generate objects sequentially - Added several comment styles - Possibility to add sql comments to tables and fields (AC)
- Added docs for velocity (AC)
- Added docs for castor (by Misko Hevery) (AC)
- Fixed ant build file (AC)
- E/R diagrams: - Improved printing support using java 1.4 - Improved drawing of dashed lines - Roars and circles are now drawn as shapes (best printing quality) (AC)
- Config file is now saved in xml (AC)
- Ansi C, C++ and Java generation: if a var is empty its value is not added. This allows null strings in java (AC)
- Added other var types for a table (long, char, float, double) (AC)
- Sql comments are now handled by the sql generation module (AC)
- Removed startup scripts (use 'java -jar druid.jar' to start druid) (AC)
- Tables : now data is pasted after the selected row (AC)
- The druid file format has been changed (and database templates too) (AC)
- Fixed bug in the JarClassLoader : resources where not loaded properly (AC)
- Fixed bug in some treeviews : when cutting the last node the refresh was incorrect (AC)
- Drag 'n' drop now works with database nodes (AC)
- Fixed bug in jdbc/ResultSetEditor : integers could not be edited (AC)
- Fixed bug in jdbc/ResultSetEditor : if the new record failed, the record-editor was activated (AC)
- Fixed bug in dff char conversion (int -> char) (AC)

1.5.5. Version 3.0 PRE (09-Dec-2001)

- Added E/R support. Possible operations: - E/R Views - Add, cut, copy, paste - Edit properties - Add E/R entities - View printing - E/R Entities - Add, cut, copy, paste - Edit properties - Added possibility to have entities formed by several tables - Extended IDEF1X notation - Automatic E/R links drawing - On screen editing (partial) including: - Moving of entities - Background scrolling - Popup menus (AC)
- Added drag and drop features to trees for data moving (AC)
- Added advanced printing support - Full control over resolution, color and other page settings - Print in multiple pages (AC)
- Added some patches by David Croy (AC)
- Some faqs (AC)
- Added ".druid" extension automatically on the save dialog (AC)
- Tree View control: - Move up and down menuitems have been substituted with d'n'drop feature - Accept node renaming if user selects another control - Node renaming is now performed with a double click - When removing nodes, now the node before is selected (not the first) (AC)

- JDBC access: - In the db panel, some checkboxes now show a question mark if the method was not implemented - Now the import data method checks if there are objects to import - The "disconnect" button now launches a thread and doesn't hang the machine - More entities recognized (sequences, UDT and system objects) - Database objects are now organized into folders (AC)
- During a cut/copy data was not stored before operation (for datatypes and sql-queries) (AC)
- CLI parameters were not properly recognized (AC)
- Fixed a bug that could cause the "too many open cursors" with oracle (AC)
- JDBC Access: - NullPointerException when working with multiple DB - Removed a bug that caused a very slow data retrieving (AC)
- DB-wizard: NullPointerException on template listing (AC)
- Code generation: now empty classes are not generated (AC)
- The closing button in the main frame now shows only one closing dialog (AC)
- In database -> options -> generation an ItemListener was missing to combos (AC)
- HTML generation. The "field details" section didn't report the "on delete cascade" correctly (AC)

1.5.6. Version 2.7 Finished JDBC support, DB import and more (28-Jun-2001)

- Added "Reload last project" facility (AC)
- Now druid remembers the size of its window (AC)
- Possibility to turn off build in code generation (useful for CVS) (AC)
- Datatype remapping. Now it is possible to paste a datatype into a different class (for eg. from const-size to var-alias): Druid converts the type automatically (AC)
- Datatype merging. All fields that have one type are changed to the new type (AC)
- Datatype usage. Now it is possible to know how many fields use a given type (AC)
- Added multiple fkeys (AC)
- Added code preview (AC)
- Added tooltips to trees (AC)
- Jdbc new features: - Now it is possible to import the jdbc db structure into druid - Edit/Delete table data for drivers that don't support editable result-sets - Possibility to add new records to a table - Added tooltips to show an object's type - Added the possibility to edit a single table record (for both editable and not editable drivers). With this editor is possible to view both binary and blob types - Added import / export facilities for both one table and entire db - Added find feature for jdbc entities (AC)
- Added "BEGIN WORK;" and "COMMIT;" to the postgres db template (AC)
- Added new chapters to documentation (AC)
- Added new plug-in architecture for: - Docs generation - Sql and db generation - Code generation - Summary and data dictionary generation - Popupmenus in the projectview / datatypes / jdbc panels (AC)

- Added dialog to show all loaded modules (AC)
- Added sort facility for db nodes, datatypes and jdbc entities (AC)
- Added summary generation in tab delimited form (AC)
- Improved html generation (sorted all object list, used primary keys to have visual feedback, added "see also" and tablespace generation only if used) (AC)
- In the datatype selector is now possible to select a table. The first field that is a primary key is used (AC)
- Improved datatype recognition in JDBC (AC)
- Parsing of jdbc drivers config under Windows (AC)
- Fixed bug in moveup / movedown operations when a node was expanded (AC)
- Some bugs in the database / file-dirs panel (AC)
- The find feature didn't scroll to the selected node (AC)

1.5.7. Version 2.5 Added JDBC support (19-May-2001)

- Sql preview of a table (AC)
- Jdbc access. This includes: - Driver manager dialog - Retrieval of db info and structure - Sql navigator - Table data view/edit - Sending of druid data to jdbc db - Some operation on jdbc db - save table/query data to a file (AC)
- Added procedures and functions (AC)
- Added the 'set default' constraint to update/delete of fkeys (AC)
- A Command Line Interface (AC)
- More comment styles (AC)
- The possibility to use autoincremental types (like the serial) (AC)
- Added faq file in the help navigator (AC)
- The datatype selector dialog is now bigger (AC)
- The druid.jar file can now be executed with `java -jar druid.jar` (AC)
- Improved tables check during data generation (for circular refern.) (AC)
- In every data-entry panel, the cut button didn't enable the paste button. (AC)
- In every data-entry panel, the copy button didn't remap objects serials. This caused data corruption. The cut & paste didn't maintain the serial of the first paste (AC)
- A cut operation, followed by a paste operation didn't maintain the object's serial. If a table or a field was cut & pasted this way all references to it where destroyed. (AC)
- The generation of java and C++ classes included fields with invalid size (like `numeric(10,4)`). (AC)
- Trailing comma when table didn't have a table attrib set. (AC)
- Oracle template. Oracle wants the 'default' attrib before the 'not null' attrib (AC)
- Fields pasted into a different db caused an exception due to the wrong field attribs (AC)
- The datatype selector dialog sometimes didn't show the fkey panel (AC)
- Circular reference error when a fkey refers the same table (AC)

1.5.8. Version 2.0 Final release (27-Apr-2001)

- Added a splash screen (AC)
- Added a db wizard to create empty / minimal / from template db (AC)
- Added templates for oracle, interbase and postgresql (AC)
- Added a "save alert" dialog on exit if data is changed but not written (AC)
- Added three tutorials (AC)
- Added a list of contributors to the about dialog (AC)
- The index attrib now supports custom indexes. Read the druid's manual: chapter "Field Attributes", paragraph "Scope types". (AC)
- The sql editing areas now use a fixed font (AC)
- Added full browsing facilities to the help frame (AC)
- More chapters in the manual (AC)
- HTML table generation. Now fkey fields have the type column clickable (AC)
- Adding a new revision now the current date is set (AC)
- The start script doesn't need to be modified to set the jdk location. Now it requires the "java" command to be in the path. (AC)
- Paste of objects on field nodes. This introduced data inconsistencies. (AC)
- The "save" option in the menu (after creating a new project) didn't work due to a bug in the newProject method (AC)
- The database/filedirs/code file browse button opened a dir dialog not a file one. (AC)
- Serious bug fixed when the user changed a field attrib type and saved the project. The saved file was corrupted. (AC)
- The DataEntryPanel (widely used in the GUI) enabled the down button after a cut operation even though there was only one row (causing an exception). (AC)
- Removed check on a datatype's size during integrity check. The size may not be a number (like a number(x,y) datatype). (AC)
- Paste of a table or field into a different db did not reset datatypes and tablespace (AC)

1.5.9. Version 2.0b New major release (beta) (10-Apr-2001)

- Added the generation of a summary in HTML or ascii form (AC)
- Added a dialog to have stats about DB (AC)
- Added tip of the day (AC)
- Added views (AC)
- Added extra sql to both db and tables (AC)
- Added cut,copy & paste features for all db objects (AC)
- Added a "Find" option (for db objects and datatypes) (AC)
- Added a simple frame to show help (AC)
- Added field attribs (AC)
- Added generation of tablespaces (AC)

- The druid's file format is incompatible with the previous one (AC)
- Localized fields have been removed (AC)
- Improved datatypes with sql-checks (AC)
- Improved HTML generation (AC)
- NullPointerException when the user exits without opening any project (AC)

1.5.10. Version 1.0 Some bug fixed and new features (26-Feb-2001)

- The file docs/druid-internals.txt has been added for developers (AC)
- Split-panel between the projectview and the workpanel (AC)
- Images and stylesheet are now copied during html generation (AC)
- Added recent files list (AC)
- Revisions now can be modified (AC)
- Table/Summary data can be modified (AC)
- Added a minimal tablespace support (AC)
- The FlexLayout package has been deleted (can be downloaded as a separate package) (AC)
- Some new lines in the TODO file (AC)
- Removed field 'version' for databases. Use revisions instead In the html generation this field has been substituted with the last version in the revisions (AC)
- Removed field 'use trigger to fkeys' for databases (maybe will be implemented in future releases) (AC)
- Minor fixes to GUI strings (AC)
- Html and java class generation: added a "/" at the end of the path when needed (AC)
- Java class generation: fixed some bugs that caused some tables or fields to be skipped (AC)

1.5.11. Version 0.9 First Public Release (21-Nov-2000)

- Html generation(AC)
- Changed User Interface(AC)
- SQL generation(AC)

1.5.12. Version 0.1 Start Coding (29-Jul-1999)

- Start Coding(AC)

1.6. Todo List

1.6.1. high

- **[docs]** Customize this template project with your project's details. This TODO list is generated from 'status.xml'. # JB

- **[docs]** Add lots of content. XML content goes in `src/documentation/content/xdocs`, or wherever the `${project.xdocs-dir}` property (set in `forrest.properties`) points. # JB
- **[feedback]** Mail forrest-dev@xml.apache.org with feedback. # JB

1.7.

2. Getting Involved

2.1.

2.2.

2.3.

2.4.

2.5.

2.6.

3. Documentation

3.1. Documentation of Druid: The Database Manager

3.1.1. To be done

Stay tuned, changes soon....

4. Samples

4.1. Samples of Druid: The Database Manager

4.1.1. To be done

Stay tuned, changes soon....

5. All the site