

ULT4DB2™

The UBS Log Tracker



Benefits

- ✓ Let DBAs quickly and easily identify, isolate and restore unwanted changes
- ✓ Identifies quiet points
- ✓ Efficient data propagation of changes to DB2, Oracle, SQL Server, etc
- ✓ Help auditors locate updates to sensitive data, provide information about those updates including who made them and when

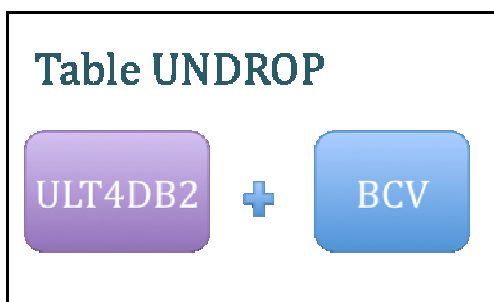
Features

- Identifies log records by various attributes as table, database, plan, user, group, job
- Presents DB2 log data decompressed and in every conceivable format
- Reports data changes, long running transactions, rollbacks
- Generates Undo and Redo SQL
- Flexible templates allow for easy adaption to naming standards

What Users Say About ULT4DB2

- Boosts performance and lowers costs
- Easier to handle than mainstream analyzers and executes faster
- Saved money and time
- Some repairs require to submit just a single job
- Minimizes downtime from conventional recovery sessions
- Keeps DB2 systems working even when large-scale corrections to data are required

See UBS White Paper on Undrop



Log Analysis / Auditing

ULT4DB2 is a powerful log analysis tool that simplifies how you can view and extract changes to DB2 tables. Whether you want to propagate data, undo faulty changes that were made to a production table, or populate an auditing table with a detailed list of previously made changes, ULT makes it easy for you to get the most from your DB2 log. With ULT4DB2 the desired data can be output in many preferred formats usable by z/OS and other platforms.

Repair

Most application systems are inter-linked - soon after updates are completed the records are forwarded to other systems and again updated. It is nearly impossible to apply traditional recover methods across these systems. Instead, specific repairs of the changed records are required for this correcting of the flawed change. Recovering the affected table to a point-in-time before the update may not be practical because it would undo all subsequent changes as well.

ULT4DB2 can create SQL statements that revert a specific change that happened at a given point-in-time. Filtering by various criteria helps you isolate the original operation that was executed against a single table or a set of tables.

Auditing

Businesses want to keep track of changes to sensitive information - who made a change to a table, when was it made, and what exactly was changed. The DB2 log contains all this data in assorted places.

ULT4DB2 helps you to put the pieces together and populate your auditing tables with the information you need. You can analyze all the changes over a given period of time, and filter by user name, plan, column contents or other criteria. If you already have auditing tables in place, ULT4DB2 can vary its output to match your existing table structures.

Quiet Points

Quiesce points are good candidates for recovery processes. However, in busy environments it is normally not possible to create preventively quiesce points. Even an unsuccessful attempt to create a quiesce point will have an impact on the availability. Hence consistent point-in-time recovery can become a challenge.

With ULT4DB2, you can scan the log for so-called 'quiet points', which are points in time where there happened to be no update activity for the set of table spaces in question, spontaneous quiet points so to say. You can use ULT4DB2 to scan for quiet points on unit of recovery (UR) or logical unit of work (LUW) level, whichever is more appropriate for your needs. You can easily recover to a quiet point that ULT4DB2 detected and then reset the CHECK-pending status using the REPAIR utility.

Rollback Report

The ULT4DB2 rollback report lists all rollbacks that occurred within the observation period, sorted by number of UNDO compensation records and lists the percentage of Undos.

Long Running Job Report

This report identifies potentially broken jobs and those transactions with low commit frequency. Filters are available for number of log records, execution time, number of DB2 checkpoints, and number of updated rows.

Data Propagation

Keep tables synchronized with ULT's data propagation feature. ULT4DB2 can directly execute the same INSERTs, UPDATES and DELETES to different target tables. Alternatively, you can have ULT4DB2 generate SQL statements for examination or later execution. If your target tables are in a different database system or platform like Oracle, SQL Server, or other DBMS, then you can change the syntax of the generated statements as well as vary the frequency of applying captured changes for every "n" minutes/hours or hold to apply all at one time.

ULT forwards DB2 data in an efficient way. Different from other propagation tools it does not increase the load on the source DB2 system as ULT4DB2 simply reads the log datasets. This results in significant savings in CPU time. Furthermore, the ULT runtime schedule can be controlled by the user to run at non-peak times and avoid higher cost levels (breach capping).

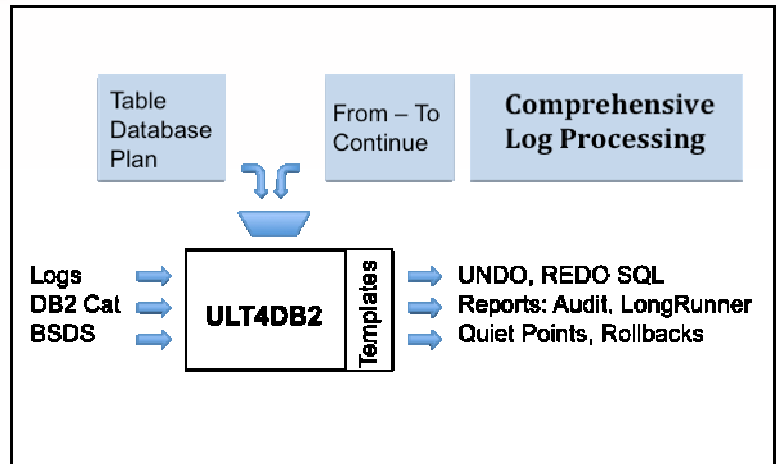
Ease of Use

ULT4DB2 is essentially a batch job that requires a one-time setup and then is scheduled to run daily or at a preferred time interval. It can be deployed as a data propagator to migrate changes from one subsystem to another, or to another DBMS on another platform. The ULT job requires as input the inspection interval (i.e. From, To) and the names of the tables monitored. ULT automatically detects if it is executed against a DB2 data sharing group, the relevant archived log datasets, and assembles the table structures from the DB2 catalogs. ULT4DB2 also has an efficient and flexible restart mode should the target table become unexpectedly full.

The ULT output can be written to one or more data sets. The output for different tables, or different sets of tables, can be written using templates to separate data sets. With ULT4DB2 you can optionally generate SQL statements ready for execution if your target database system is DB2 for z/OS.

If you use DB2 tables to store legacy data then you will sometimes want to treat this data as binary even if the DB2 catalog states otherwise. ULT4DB2 allows you to override the catalog information on a per-column-basis enabling you to manage this unwieldy data.

A change to your source tables may "trigger" additional changes that need to be taken into consideration during data propagation. Where these triggers do not exist in the target environment, ULT4DB2 can generate SQL statements to produce the same changes that the original triggers did. Optionally, you may simply skip the trigger actions - for some or all of the target tables.



What Challenges Does ULT4DB2 Meet?

In most enterprises you are dealing with multi-platforms and applications are inter-linked. Data is changed and shortly afterwards delivered to other business units or partners. Incorrect changes are often first detected when they are already in use at other places. Hence, standard recovery based on image-copies may be excluded from the process and instead specific repairs to the data are required.

ULT4DB2 quickly isolates the undesired changes to database tables and provides easy to use UNDO SQL statements to revoke wrong updates. It also provides REDO statements to apply a set of changes to other tables. It provides the ability to quickly recover mission-critical DB2 data. This capability to prevent prolonged unavailability of vital applications can translate into a large sum of money for the different businesses involved.

ULT4DB2 also makes data propagation affordable. The immense costs in CPU consumption on the production DB2 that other propagator programs require are significantly decreased by ULT.

ULT4DB2 is a powerful log analysis and propagation tool that aids in auditing data changes, recovering data, migrating changes and backing out errant updates.

Who Utilizes ULT4DB2?

Database administration, application development and maintenance programmers use ULT4DB2 to repair the result of an incorrect program execution, a wrongly scheduled job or some user error.

Auditors and administrators deploy ULT4DB2 to determine update sequences. The tool easily enables viewing data changes by dates, users, tables and other criteria.

Data centers replace expensive data propagator tools by ULT4DB2 because ULT offers reduced CPU consumption and reasonable license conditions.

Database administrators use ULT4DB2 to analyze update frequencies and idle times.

ULT4DB2 supports DB2 z/OS Version 8, 9, 10 in single & data-sharing modes.

Contact Us For More Information:

We offer a FREE web demo & 30-day trial evaluation.



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