

DBAudit™ v3.0

Analyze IMAGE log files, modify databases, create audit trails and monitor database security.

Products for HP e3000 Systems

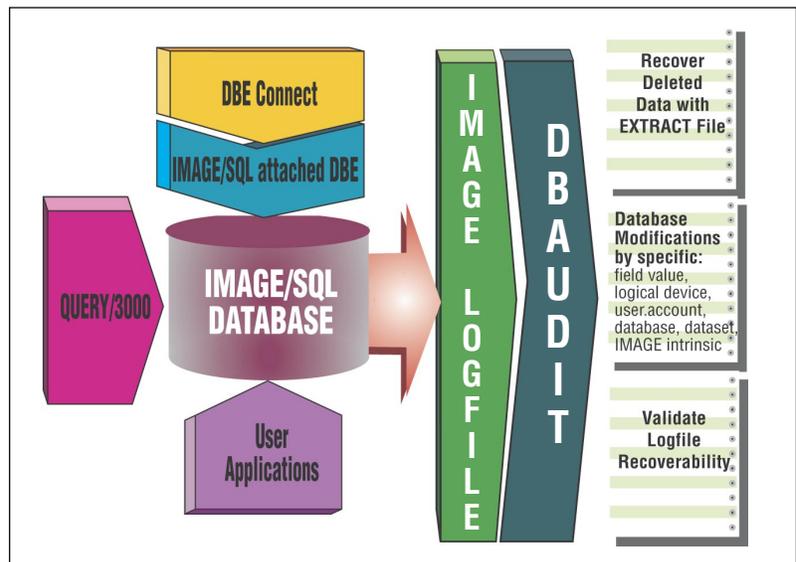
Overview

Each action that modifies the IMAGE/SQL database is recorded (logged) to the logfile. These actions are separately identifiable, relating to specific DBOPENs, and can be analyzed and reported by **DBAudit**.

The DBAudit utility allows database administrators to read IMAGE logfiles to analyze database modifications. Various detail or summary reports provide a wealth of data relating to the database accessors and modifications. Some columns of most reports include: database, dataset, device (where the database is accessed), logon MPE user and account, program name, group and account, IMAGE intrinsic type, item name and contents, etc. DBAudit provides an easy method for generating database transaction analysis reports.

Key Benefits

- Fulfill auditor's need for reports which track database activity by individual user and/or application program.
- Easily obtains information regarding specific database modification through a variety of selection criteria, even from massive logfiles, and even if the data no longer exists in the database.
- When a problem is found in the database with regard to data values in a particular field, DBAudit allows highly specific playback of the responsible transaction by particular field value.
- Pinpoints the logical status of the transaction and facilitates recovery. Status reports (epilog) show the database status at the time of the system abort.



Track database activity... Which dataset or user terminal has the most activity? How long does it take to recover a logfile? Obtain pertinent information about database actions.

More than a transaction analyzer, DBAudit is a powerful tool for monitoring database security.

Users of the database are highlighted in several reports by time, logical device, logon user, and account name.

When to use logging

Logging is recommended if users have:

- *A high volume of transactions without paper backup for transactions.*
- *Individual high-dollar-value transactions (for example, changing the terms of a commercial loan).*
- *Auditor's requests for an audit trail of changes to certain data fields in company records.*
- *Remote, unmonitored users entering data on a very large database.*

With logging, backup frequency could be reduced from daily to

weekly, saving hours of processing time. Logging may be the only way to recover transactions when data is corrupted. Intermittent logging is a good idea for debugging programs, quality assurance testing, and performance and capacity planning.

Ensure logfiles are valid for recovery

DBAudit will validate IMAGE logfiles for recoverability by reading each logfile in the logfile set, checking file transition links and transaction validity, and producing the resulting exception reports. When logging for recovery, it is important to know that a logfile is bad before using it.

Isn't logging a heavy load on the system? Logging should have little impact on the system. Most users don't even notice when logging is turned on. Good candidates for logging are programs that request information, and go on to interactively edit the various fields, and finally, update the database.

Doesn't logging require program changes? Logging can begin without program changes. To take advantage of the full power of logging, programs may be modified to define logical transactions.

Logging is only for recovery, right? It's not only for recovery, but it is useful for debugging, auditing, and tuning, especially with a tool like DBAudit to print the log files. The log file contains a complete record of every added, deleted, or modified entry in a database.

When using the OUTPUT DEFERRED option of TurboIMAGE, transaction logging is necessary. Otherwise, a system failure could result in the loss of the current database with no recovery options except loss of data to previous backup.

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