

ORACLE TOTAL RECALL

KEY FEATURES AND BENEFITS

FEATURES

- Secure retention of historical data
- Application independent
- Easy access to historical data
- Efficient and automatic storage of historical data

BENEFITS

- Eliminates requirement for 3rd party or hand-crafted solutions
- Preserves history with no extra effort
- Enforces data retention policies
- Data forensics and fraud detection
- Information Lifecycle Management (ILM)
- Error recovery
- Tamper-proof history

Organizations need an efficient mechanism for long term data tracking and retention that doesn't involve application rewrites, 3rd party or handcrafted software solutions, or additional administrative overheads. The Total Recall option of Oracle Database 11g meets these challenges by ensuring complete, secure, and easy tracking, retention and management of all your historical data.

Data History and Retention

Businesses are increasingly realizing the immense value that historical data can provide to help them understand market trends and customer behavior, and to help them detect and repair incorrect or malicious changes. In addition, regulatory and compliance policies require retention of historical data: failing to comply with regulations such as SOX, HIPAA and BASEL-II could mean significant legal risks for businesses, adversely impact their business prospects and damage their reputation among investors and customers.

Unfortunately, there hasn't been an efficient way of generating and managing historical data, until now. Oracle Database 11g introduces Total Recall based on the Flashback Data Archive feature, which transparently tracks changes to database tables in a highly secure and efficient manner.

Data Retention Requirements

Any data retention system should meet some basic requirements:

- Historical data should be completely secure: only authorized people should be able to view the data
- Historical data must be protected from any updates
- Historical data should be easily accessible without requiring special interfaces or application changes
- Storage requirements for historical data can easily grow to many terabytes, making storage efficiency critical
- Managing historical data and access to that data should be as simple as possible

Enabling Total Recall

With Flashback Data Archive, all data changes are transparently tracked to provide a complete change history. It can be enabled on all tables, or on a subset of tables. There is no limit on how long the history can be retained, allowing Flashback Data Archive to handle any retention period your business requires. When a record exceeds the retention period, it is purged automatically.

RELATED PRODUCTS AND SERVICES

Total Recall provides a simple and transparent way to enable tracking of all changes to data, with full security on the historical data, and minimal performance impact.

RELATED PRODUCTS

The following products can be used in conjunction with Total Recall to provide a complete picture of all historical data changes:

- Oracle Audit Vault
- Oracle Database Vault
- Oracle Advanced Security
- Oracle Label Security

Total Recall Features

Some of the features of Flashback Data Archive are:

- **Ease of configuration:** You can easily enable historical data capture for one table or all tables in your database with a simple ‘enable archive’ command, and you do not need to change any of your applications
- **Efficiency of performance and storage:** The capture process is efficient, minimizing performance overhead, with historical data stored in a compressed format to reduce storage requirements
- **Complete protection from accidental or malicious update:** No one – not even administrators - can update historical data directly, and only authorized users can view the historical data.
- **Ease of access to historical data:** Historical data can be viewed at any prior point in time using the “AS OF” and “BETWEEN” flashback SQL clauses
- **Automated ongoing historical data management tasks:** Historical data that ages beyond the specified retention is automatically purged, thereby freeing up administrators from a repetitive but critical task

Seamless Compliance and Historical Data Management

With the Total Recall Option (based on Flashback Data Archive technology), managing historical data should no longer be a painful task. It provides an extremely secure, efficient, easy-to-use and application-transparent solution for managing historical data, as well as a centralized, secure query-able historical data store that makes the most efficient use of all your resources – CPU, storage, administrator time – and enables and reduces your cost of compliance.

Contact Us

For more information about Oracle Total Recall, please visit oracle.com or call +1.800.ORACLE1 to speak to an Oracle representative.



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