

Oracle Flashback Technology: Overview

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Objectives

After completing this lesson, you should be able to explain how to use flashback technologies to protect against and recover from various types of errors.



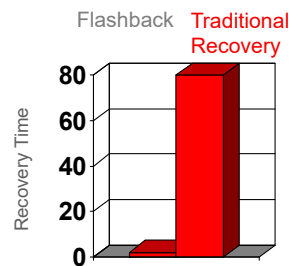
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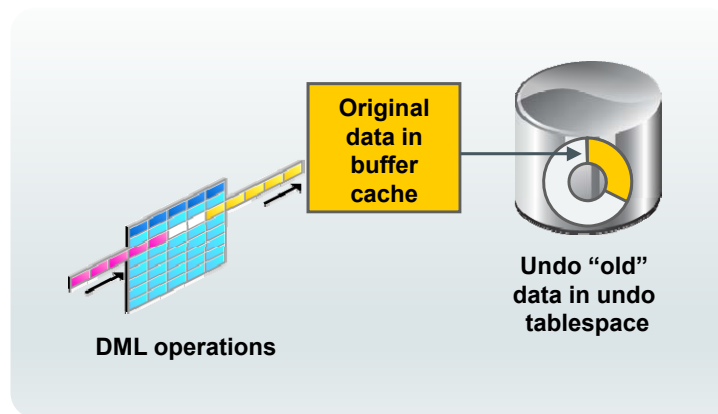
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Flashback Technologies Error Detection and Correction

- Flashback makes error recovery much easier by:
 - Enabling you to view data as of a past point in time
 - “Rewinding” unwanted data changes
 - Minimizing the time it takes to correct an error
- Flashback is easy to use and includes simple commands, with no complex procedures.



Review: Transactions and Undo



Flashback Technology

Using Flashback technology:

- Viewing past states of data
- Winding data back and forth in time
- Assisting users in error analysis and recovery



For error analysis:

Oracle Flashback Query

Oracle Flashback Version Query

Oracle Flashback Transaction Query

For error recovery:

Oracle Flashback Transaction Backout

Oracle Flashback Table

Oracle Flashback Drop

Oracle Flashback Database

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Flashback Technology

Object Level	Scenario Examples	Flashback Technology	Depends On	Affects Data
Database	Truncate table, undesired multitable changes made	Database	Flashback logs	TRUE
Table	Drop table.	Drop	Recycle bin	TRUE
	Update with the wrong WHERE clause.	Table	Undo data	TRUE
	Compare current data with data from the past.	Query	Undo data	FALSE
	Compare versions of a row.	Version Query	Undo data	FALSE
Transaction	Investigate and back out suspect transactions.	Transaction Query	Undo/redo from archive logs	TRUE
Table and transaction	Audit, compliance, historical reports, ILM	Data Archive (Temporal)	Tablespace	FALSE

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Summary

In this lesson, you should have learned how to use flashback technologies to protect against and recover from various types of errors.

