

SAP® MaxDB™ Expert Session

SAP® MaxDB™ Data Integrity I – Automated and Manual Checks
News 2015

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SAP® MaxDB™ Expert Session

SAP® MaxDB™ Data Integrity I – Automated and Manual Checks

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News - General Remarks

- Some functionality might have been changed or expanded over the years.
 - Recommendations might have changed.
- ➔ For each expert session an update with the most important changes is published.
- Check the additional remarks after having heard or read the expert session.
 - Feedback to the responsible author is welcome if you recognize outdated information within the session.

Agenda

1. ‚Check Data‘ Variants

2. DB_Online – Check Data on Snapshot

3. Further References



„Check Data‘ Variants

Database State	Available Checks
DB_Online	Check Data
	Check Table
	Check Index (since SAP MaxDB 7.8)
	Check Data on Snapshot (since SAP MaxDB 7.9)
	Check Catalog (for internal use by SAP MaxDB support)
DB_Admin	Check Data (also deletes unreferenced page entries)

‘Check ... [extended]’ -> keyword currently obsolete

This option was implemented to test a new 'Ascending-Key-Order Check' which has become part of any default check since SAP MaxDB 7.6.01.00 and 7.7.01.04.

DB_Online – Check Data on Snapshot

Database State	Check Type	
DB_Online	Check Data on Snapshot	<p>Checks all data using Snapshot technology (since SAP MaxDB 7.9)</p> <ul style="list-style-type: none"> ▪ Tables & Indexes ▪ LOBs (Binary Large Object Files e.g. a ,picture'-type file) ▪ History Data ▪ Internal structures like e.g. Catalog entries, Filedirectory Pages
		<p>Usage ...db_execute check data on snapshot</p>
		<p>Pros</p> <ul style="list-style-type: none"> • Verifies all objects and removes unreferenced pages • No table locking issues, because working on Snapshot. • Runs with low I/O priority in background to minimize performance impact.
		<p>Cons</p> <ul style="list-style-type: none"> • Long runtime • Might need considerable free disk space, if existing data is frequently changed while Snapshot is active.

Further References

If you have SAP OSS access, do not miss these notes:

- SAP note 940420 'FAQ: Database structure check (verify)
- SAP note 846890 'FAQ: SAP MaxDB Administration'
- SAP note 1423732 'FAQ: SAP MaxDB Snapshots'
- SAP note 1837280 'SAP MaxDB: CHECK DATA runtime optimization'



Thank you

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