

DSS024 - Querying metadata under snapshot isolation

Last updated by | Keith Elmore | Apr 5, 2021 at 7:57 AM PDT

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Issue

This error can occur if you are querying metadata under snapshot isolation and there is a concurrent DDL statement that updates the metadata that is being accessed under snapshot isolation.

Cause

SQL Server does not support versioning of metadata. For this reason, there are restrictions on what DDL operations can be performed within an explicit transaction running under snapshot isolation.




An implicit transaction, by definition, is a single statement which makes it possible to enforce the semantics of snapshot isolation even with DDL statements.

The following DDL statements are not permitted under snapshot isolation after a BEGIN TRANSACTION statement:

ALTER TABLE,
CREATE INDEX,
CREATE XML INDEX,
ALTER INDEX,
DROP INDEX,
DBCC REINDEX,
ALTER PARTITION FUNCTION,
ALTER PARTITION SCHEME, or any common language runtime (CLR) DDL statement.

These statements are permitted when you are using snapshot isolation within implicit transactions. An implicit transaction, by definition, is a single statement which makes it possible to enforce the semantics of snapshot isolation even with DDL statements.

Public Doc Reference

<https://docs.microsoft.com/en-us/dotnet/framework/data/adonet/sql/snapshot-isolation-in-sql-server> 
[https://docs.microsoft.com/en-us/previous-versions/sql/sql-server-2016/bb933783\(v=sql.130\)z](https://docs.microsoft.com/en-us/previous-versions/sql/sql-server-2016/bb933783(v=sql.130)z) 
<https://docs.microsoft.com/en-us/sql/relational-databases/databases/tempdb-database?view=sql-server-ver15> 

Classification

Root cause Tree - DataSync/User issue/error/SyncFail

How good have you found this content?

