

DSS022 - Database provisioning failed with the exception Cannot find the type

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Contents

- [Issue](#)
- [Error](#)
- [Cause](#)
- [Resolution](#)
- [Classification](#)

Issue

Unable to provision due to permission issues.

Error

Database provisioning failed with the exception "Cannot find the type 'Country_dss_BulkType_...guid...', because it does not exist or you do not have permission.

Inner exception: SqlException Error Code: -2146232060 – SqlError Number:15151, Message: Cannot find the type 'Country_dss_BulkType_...guid..', because it does not exist or you do not have permission.

For more information, provide tracing ID 'f8850c1a-ae99-4d8f-b971-a018fbe27dce' to customer support.

Cause

This error indicates the user lacks of permission

Resolution

Customer uses **sa** account resolved the issue.

But the least privilege he needed as follows:

Least database privilege

For sync setup

Objects	Permission
Table	CREATE, ALTER
Database	ALTER
Stored Procedure	CREATE
Schema	SELECT, ALTER
User Defined Type	CREATE

For ongoing sync

Objects	Permission
Base tables	ALTER
Metadata tables	SELECT, DELETE
Tracking tables	CONTROL
Stored Procedure	CONTROL
User Defined Type	CONTROL

For de-provisioning

Objects	Permission
Table (base, tracking, metadata)	SELECT, INSERT, UPDATE, DELETE
Stored Procedure	EXECUTE
User Defined Table Type	EXECUTE

As stated in the link <https://docs.microsoft.com/en-us/azure/sql-database/sql-database-best-practices-data-sync> ☐ , for sync member and hub db, "Select/ Insert/ Update/ Delete on tables that are selected for syncing, and on sync metadata and tracking tables; Execute permission on stored procedures created by the service; Execute permission on user-defined table types."

In sync metadata database, the role datasync_executor is required.

Classification

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

How good have you found this content?

