Data inconsistency after Sync

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

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Symptom

User notice inconsistent primary key data after a successful sync. A sync is reported as successful, and the log shows no failed or skipped rows, but you observe that primary key data is inconsistent among the databases in the sync group.

Cause

This result is by design. Changes in any primary key column result in inconsistent data in the rows where the primary key was changed.

Resolution

To prevent this issue, ensure that no data in a primary key column is changed. To fix this issue after it has occurred, delete the row that has inconsistent data from all endpoints in the sync group. Then, reinsert the row.

Please run following on the sync source database (need to replace the table_name and primary_key):

```
SELECT COUNT(*)
FROM DataSync.[table_name]_dss_tracking t
WHERE sync_row_is_tombstone=0
AND NOT EXISTS (
SELECT *
FROM [table_name] s
WHERE t.[primary_key] = s.[primary_key]
)
```

If it output any record, it means they changed PK, which result in mismatch between tracking records & original records.

Public Doc Reference

https://docs.microsoft.com/en-us/azure/sql-database/sql-database-troubleshoot-data-sync#sync-pkdata ⧉

Classification

Root cause Tree - DataSync/Service issue/SyncFail

How good have you found this content?