

[Azure Synapse Analytics] - Failed with incompatible types (smallint, date) when Validate Schema enabled

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Contents

- [Issue](#)
- [Root Cause](#)
- [Resolution](#)
- [Additional Information:](#)

Issue

When customer uses Azure Synapse Analytics as source in dataflow (preview data, debug/trigger run...). He may find job will fail with following error message:

```
DF-SRC-005 at Source 'AzureSQLDWSource': Column 'ISMAILINT has incompatible types( Found: integer, Required:
```



or

```
DF-SRC-005 at Source 'AzureSQLDWSource': Column 'IDATE has incompatible types( Found: timestamp, Required:
```



Root Cause

Please check if customer is enable validate schema (validateSchema: true) and enable staging (staged: true) in portal or DSL, and see if customer's data contains smallint (xxx as short) or date (XXX as date) types in portal or DSL.

If so, the root cause is: Smallint, date are treated as ShortType, DateType when import schema for DW. But when enable staging, it uses polybase to create an external table with Parquet file. Parquet file convert smallint, date as int32, int96. Then while read from Parquet file, the data types are converted to IntegerType, TimestampType, which are different from DW. When customer enable validate schema, our system tries to compare Parquet's format with DW's format, causing such incompatible data type error.

Resolution

Please suggest customer to manually change smallint from short to integer (xxx as integer) or date from date to timestamp (xxx as timestamp) in DSL.

Or disable validate schema (validateSchema: true) while DW's schema contains smallint or date data type.

Additional Information:

- Icm Reference: N/A
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