

[AzureSqlDatabase] - Syntax error when using query as input

Last updated by | Jackie Huang | Jan 4, 2022 at 12:24 AM PST

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Issue

When use query as input in dataflow source with AzureSQL, if it fail with following error message:

at Source 'source1': shaded.msdataflow.com.microsoft.sqlserver.jdbc.SqlServerException: Incorrect syntax XXXXXXXX.

Error details

Failure type

User configuration issue

Details

```
{
  "StatusCode": "DFExecutorUserError",
  "Message": "Job failed due to reason: at Source 'source1': shaded.msdataflow.com.microsoft.sqlserver.jdbc.SqlServerException: Incorrect syntax near the keyword 'with'.",
  "Details": {
    "at Source 'source1': shaded.msdataflow.com.microsoft.sqlserver.jdbc.SqlServerException: Incorrect syntax near the keyword 'with'."
  }
}
```

Source

Pipeline [pl_insert_empty](#)
 Data flow [df_insert_empty](#)

How helpful or unhelpful was this error message?

	Run start	Duration	Status	
lf_insert_empty	ExecuteDataFlow	2020-11-25T09:58:51.1940065Z	00:00:35	Failed

Root Cause

Query used in dataflow source should be able to run as a subquery, the reason of the failure is either the query syntax is incorrect or it can't be run as a subquery. We can suggest customer to run following query in SSMS to verify:

```
SELECT top(0) * from ($customerQuery) as T_TEMP
```

Resolution

- Ask customer to provide a correct query and test it in SSMS first