

[SAP ODP] Parse value error or data misalignment

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Issue

When you use MDF SAP to read data and meet one of following issues:

1. Failed when parsing data, parsing value: ', **expected data type 'Decimal', column index** '.Please check your origin data in SAP
side,Source=Microsoft.DataTransfer.Runtime.SapRfcHelper,"Type=System.FormatException,Message=Input string was not in a correct format.,Source=mscorlib
2. The data in your stage storage or sink table is data misalignment, for example:

Customer ID	First name	Last name	Address	City	State	Country	Zip Code	Change date for this record
2	LILY	COLE	MINHANG	SHANGHAI	SHANGHAI	CHINA	200252	03.01.2020
4	TOM	LIU	888, JIANGCHUAN ROAD, MINHANG	SHNAGHAI	SHANGHAI	CHINA	200241	03.01.2020
5	TOM	LIU	888, JIANGCHUAN ROAD, MINHANG	SHNAGHAI	SHANGHAI	CHINA	200241	04.01.2020
6	TINA	HU	999, ZIXING ROAD	SH	SH	CHINA	200241	04.01.2020
7	MOHAN	SANKARAN	1234 ONE WAY	REDMOND	WA	USA	12345	20.09.2022

CUSTOMERID,FIRSTNAME,LASTNAME,ADDRESS,CITY,STATE,COUNTRY,ZIPCODE,ODQ_CHANGE_DATE,ODQ_ENTITYCNTR,_SEQUENCENUMBER
 "2","LILY","COLE","MINHANG","SHANGHAI","SHANGHAI","CHINA","200252","2",200103,0.0000000001
 "4","TOM","LIU","888, JIANGCHUAN ROAD, MINHANG","SHNAGHAI","SHANGHAI","CHINA","200241","2",200103,0.0000000002
 "5","TOM","LIU","888, JIANGCHUAN ROAD, MINHANG","SHNAGHAI","SHANGHAI","CHINA","200241","2",200104,0.0000000003
 "6","TINA","HU","999, ZIXING ROAD","SH","SH","CHINA","200241","2",200104,0.0000000004
 "7","MOHAN","SANKARAN","1234 ONE WAY","REDMOND","WA","USA","12345","2",220920,0.0000000005

Root Cause

Mostly the customer has hidden column settings in his SAP table.

Field Name	Short text	Selection	Hide field	Inversion	Field only K...
ADDRESS	Address	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CHANGEDATE	Change date for this record	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CITY	City	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

When MDF SAP try to read data from SAP server, it returns all the schema (columns, including hidden ones), but returned data does not contains related values. So data misalignment is happened and lead to parse value issue or wrong data value issue.

Resolution

When customer meets these issues, please ask him to use one of following options to workaround/solve it:

- Option-1: Ask customer to remove hidden setting from related column(s) through SAP GUI.
- Option-2: If customer wants to keep existed SAP settings without change, he can use hidden feature (manually add DSL property "enableProjection:true" in script) in MDF SAP to filter the hidden column(s) and continue to read data.

```
source(allowSchemaDrift: true,  
      validateSchema: false,  
      store: 'SapOdp',  
      format: 'sapObject',  
      staged: true,  
      context: 'SAPI',  
      objectName: 'ZODPTEST',  
      enableCdc: true,  
      enableProjection: true,  
      readMode: 'fullAndIncrementalLoad',  
      keys: ['CUSTOMERID']) ~> SapZODPTEST
```

Additional Information:

- Icm Reference: N/A
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