

Salesforce connector with wrong precision or scale

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Key words: Salesforce, precision, scale, decimals, digits, rounding

Issue

Data on Salesforce source data precision and/or scale is not accurately reflected in ADF, resulting in missing digits or decimal numbers.

For example, via the Salesforce API or Workbench the data is retrieved correctly:

Enter or modify a SOQL query below:

SELECT Ammonia_kgkg_FPCM__c FROM AGR_KPI__c

Query

Query Results

Returned records 1 - 200 of 13978 total records in 2.346 seconds:

More...

	Ammonia_kgkg_FPCM__c
1	0.005982647489684265
2	0.004386699851703411
3	0.004813984987422822
4	0.00478274664323185
5	0.006914951824414087
6	0.0063611687911836546
7	0.005274208868829356
8	0.005515000591544771
9	0.006821061960310084

But on ADF it is rounded to 2 decimals in Preview:


Preview data

Linked service: ls_salesforce_any

Object:

Ammonia_kgkg_FPCM_c	fmt_Ammonia	N_surplus_kgkg_FPCM_c	fmt_surplus
0.01	0.006	0.01	0.009
0.0	0.004	0.0	0.005
0.0	0.005	0.0	0.003
0.0	0.005	0.01	0.01
0.01	0.007	0.01	0.006
0.01	0.006	0.01	0.014
0.01	0.005	0.0	0
0.01	0.006	0.0	0.005

Cause

The Salesforce connector rounds the value according to the schema definition. If the column datatype is not defined with the adequate scale/precision, it could result in the behaviour above. For Salesforce, defining the schema is not required to retrieve the data; setting a value via the API will store it in the DB and will be returned as it was set regardless of the scale of the field definition: <https://help.salesforce.com/s/articleView?id=000336833&type=1> 

Resolution

However, ADF honours the column definition in Salesforce. Regardless of whether the data can be retrieved via the Salesforce API correctly, the column definition needs to be updated to accurately reflect the scale & precision of the data.

References

Case 2201070050001037 Ava post Wilson Ramstead (MINDTREE LIMITED): Ava 121010724005321 Customer is using sale... posted in ADF - CSS Collaboration / General at Friday, January 8, 2021 2:38:59

Additional Information

- Icm References:
- cases: 2201070050001037
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