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**Document overview details:**

|  |  |  |
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| **date** |  |  |

1. **Introduction**
   1. **Purpose:**

This document explains how we are testing the updated Transfix\_MD after moving from ADF pipelines to Databricks jobs. We aim to make sure everything works properly, meets business needs, and keeps the data accurate.

**1.2 Scope**

* Checking that Databricks jobs do the same work as the old ADF pipelines.
* Making sure data changes, movements, and links are correct.
* Testing speed and fixing any errors that happen.
* Ensuring the final data matches exactly what is expected in production.

**1.3 Application details**

|  |  |
| --- | --- |
| **Test environment** | **dev** |
| ADF resource name | ADF-productsupply-p203 |
| pipelines | Master pipeline:  Child pipeline: |
| Databricks workspace name | dbrproductsupplyn101 |
| Databricks job details | [pg\_tw\_fa\_Transfix] - MD |

# 

# 2.Test Strategy

## 2.1 Testing Approach

|  |  |  |
| --- | --- | --- |
| Test | Details | Status |
| Unit Tests | Validate individual notebook scripts and their transformations. | Check |
| Data Integrity Checks | Compare source and target datasets for correctness. | Check |
| Performance Testing | Compare execution time and resource consumption. | Check |
| Error Handling Tests | Ensure proper logging and error messages for failures. | Check |

# Test Environment & Data details:

## Data Source

### Source dataset details

|  |  |  |
| --- | --- | --- |
| Schema name | Table name | Table/file type |
| cdl\_ps\_prod.silver\_sap\_h1p\_104 | ZTXXPT0104 ZTXXPT0103 MARM ZTXXPTMELF ZTXXPTATVA ZTXXPTCPIK CABN AUSP KSSK KSML KLAH ZTXX\_PTWFREQ ZTXX\_PTWFCONFIG ZTXXPTNASS MARA MAKT | unity catalog-delta tables |
| cdl\_ps\_prod.silver\_sap\_n6p | tvko\_organizational\_unit\_sales\_organizations t001\_company\_codes lfa1\_vendor\_master\_general\_section lfb1\_vendor\_master\_company\_code plant\_dim t001k\_valuation\_area kna1\_general\_data\_in\_customer\_master adr6\_e\_mail\_addresses\_business\_address\_services | unity catalog-views |
| cdl\_ps\_prod.bronze\_rds | cust\_hier\_dim | unity catalog-delta table |

## Target/ Final Tables

### Target datasets

|  |  |  |
| --- | --- | --- |
| **Catalog/Schema used [catalog-name.schema-name.table-name]** | **Data Environment, Location** | **Description** |
| cdl\_ps\_dev.silver\_ps\_transfix\_na | Dev, Unity Catalog | Development Schema for Modernized Transfix |
| cdl\_ps\_prod.silver\_transfix\_tv\_na | Prod, Unity Catalog | Prod Transfix Schema |

**Transfix\_MD target tables:**

|  |
| --- |
| cust\_hierarchy656\_na\_lkp |
| cust\_na\_dim |
| plant\_na\_dim |
| prod1\_na\_dim |
| sales\_org\_na\_dim |
| vendor\_na\_dim |

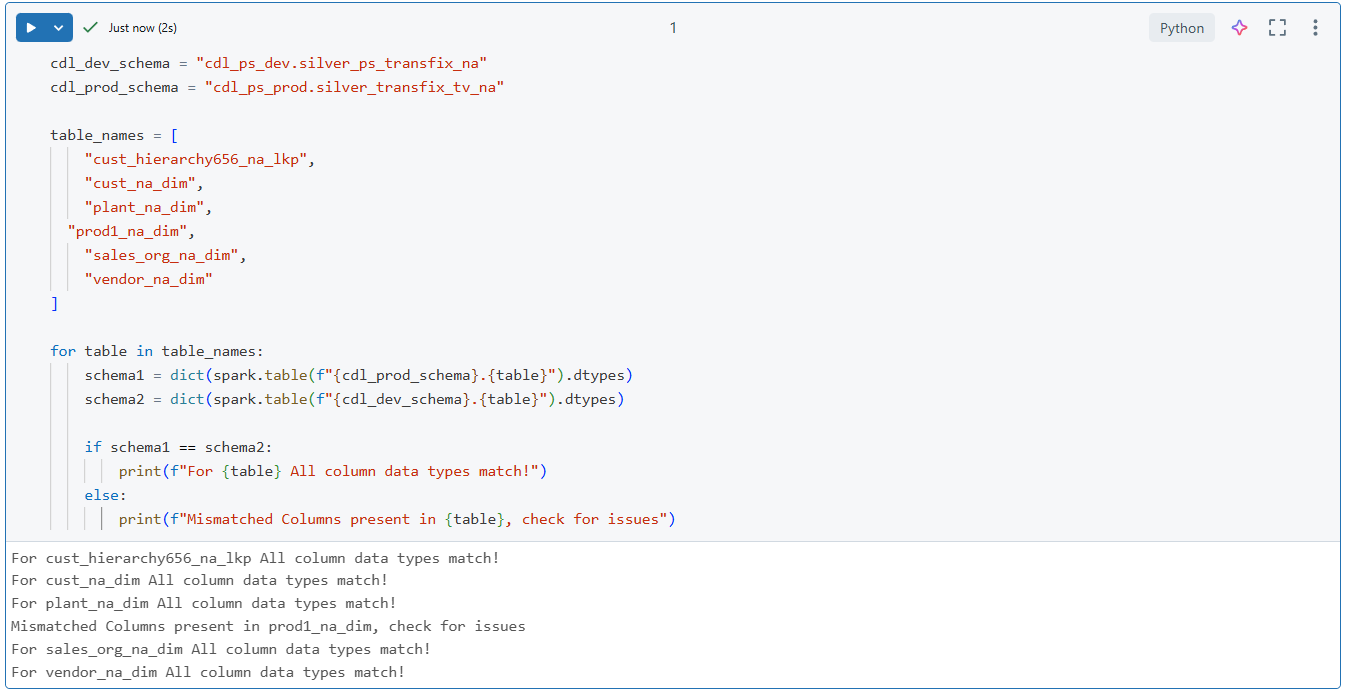
# Test cases and Scenarios

## Target table Compare:

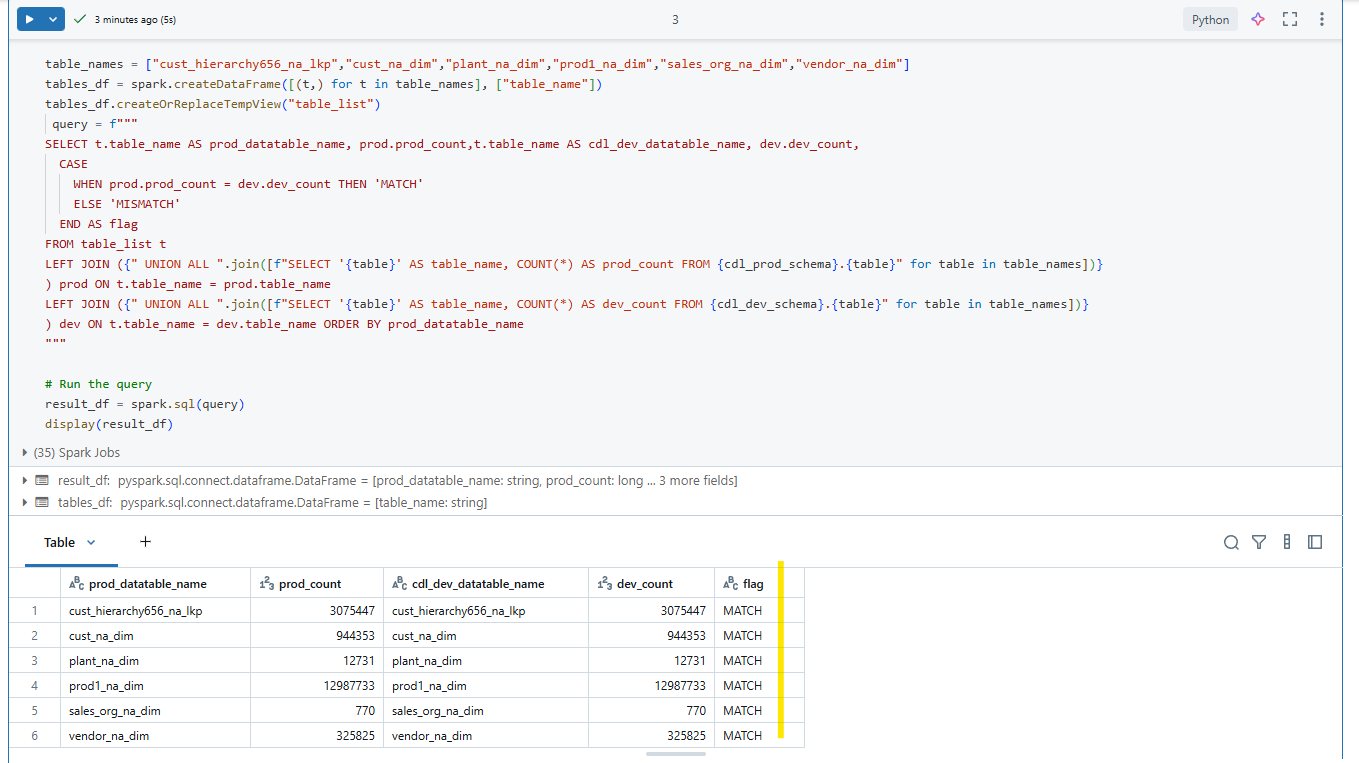
### 4.1.1 Data Type: Comparing the schema of Prod data to Modernized Dev data

1. Schema Check between cdl\_ps\_dev.silver\_ps\_transfix\_na and cdl\_ps\_prod.silver\_transfix\_tv\_na for the Transfix\_MD Tables

**Data Type: Comparing the schema of Prod data to Modernized Dev data**



**Data Count: Comparing the Prod data to Modernized Dev data**



|  |  |
| --- | --- |
| **cust\_hierarchy656\_na\_lkp** | |
| **cdl\_ps\_dev.silver\_ps\_transfix\_na** | **cdl\_ps\_prod.silver\_transfix\_tv\_na** |
| customer\_id:string | customer\_id:string |
| l1\_global\_lvl:string | l1\_global\_lvl:string |
| l1\_global\_name:string | l1\_global\_name:string |
| l2\_key\_customer\_group\_lvl:string | l2\_key\_customer\_group\_lvl:string |
| l2\_key\_customer\_group\_name:string | l2\_key\_customer\_group\_name:string |
| l3\_vary1\_lvl:string | l3\_vary1\_lvl:string |
| l3\_vary1\_name:string | l3\_vary1\_name:string |
| l4\_vary2\_lvl:string | l4\_vary2\_lvl:string |
| l4\_vary2\_name:string | l4\_vary2\_name:string |
| l5\_country\_top\_account\_lvl:string | l5\_country\_top\_account\_lvl:string |
| l5\_country\_top\_account\_name:string | l5\_country\_top\_account\_name:string |
| l6\_vary6\_lvl:string | l6\_vary6\_lvl:string |
| l6\_vary6\_name:string | l6\_vary6\_name:string |
| l7\_intrmdt\_lvl:string | l7\_intrmdt\_lvl:string |
| l7\_intrmdt\_name:string | l7\_intrmdt\_name:string |
| l8\_intrmdt2\_lvl:string | l8\_intrmdt2\_lvl:string |
| l8\_intrmdt2\_name:string | l8\_intrmdt2\_name:string |
| l9\_intrmdt3\_lvl:string | l9\_intrmdt3\_lvl:string |
| l9\_intrmdt3\_name:string | l9\_intrmdt3\_name:string |
| l10\_intrmdt4\_lvl:string | l10\_intrmdt4\_lvl:string |
| l10\_intrmdt4\_name:string | l10\_intrmdt4\_name:string |
| l11\_intrmdt5\_lvl:string | l11\_intrmdt5\_lvl:string |
| l11\_intrmdt5\_name:string | l11\_intrmdt5\_name:string |
| l12\_ship\_to\_lvl:string | l12\_ship\_to\_lvl:string |
| l12\_ship\_to\_name:string | l12\_ship\_to\_name:string |

**Cust\_na\_dim:**

|  |  |
| --- | --- |
| **cust\_na\_dim** | |
| **cdl\_ps\_dev.silver\_ps\_transfix\_na** | **cdl\_ps\_prod.silver\_transfix\_tv\_na** |
| customer\_id:string | customer\_id:string |
| customer\_account\_group\_code:string | customer\_account\_group\_code:string |
| address\_id:string | address\_id:string |
| city\_name:string | city\_name:string |
| district\_name:string | district\_name:string |
| country\_code:string | country\_code:string |
| customer\_class\_code:string | customer\_class\_code:string |
| fax\_num:string | fax\_num:string |
| fiscal\_year\_variant\_code:string | fiscal\_year\_variant\_code:string |
| tax\_num3\_code:string | tax\_num3\_code:string |
| one\_time\_account\_flag:string | one\_time\_account\_flag:string |
| industry\_code:string | industry\_code:string |
| industry2\_code:string | industry2\_code:string |
| industry3\_code:string | industry3\_code:string |
| industry4\_code:string | industry4\_code:string |
| industry5\_code:string | industry5\_code:string |
| lang\_code:string | lang\_code:string |
| customer1\_name:string | customer1\_name:string |
| customer2\_name:string | customer2\_name:string |
| customer3\_name:string | customer3\_name:string |
| nielsen\_id:string | nielsen\_id:string |
| trade\_partner\_company\_id:string | trade\_partner\_company\_id:string |
| first\_phone\_num:string | first\_phone\_num:string |
| plant\_code:string | plant\_code:string |
| po\_box\_num:string | po\_box\_num:string |
| postal\_code\_num:string | postal\_code\_num:string |
| po\_box\_postal\_code\_num:string | po\_box\_postal\_code\_num:string |
| region\_code:string | region\_code:string |
| sort\_field\_name:string | sort\_field\_name:string |
| house\_num\_and\_street\_name:string | house\_num\_and\_street\_name:string |
| tax1\_num:string | tax1\_num:string |
| tax2\_num:string | tax2\_num:string |
| usage\_code:string | usage\_code:string |
| vendor\_or\_creditor\_account\_num:string | vendor\_or\_creditor\_account\_num:string |
| authrz\_group\_code:string | authrz\_group\_code:string |
| customer\_central\_dlvry\_block\_code:string | customer\_central\_dlvry\_block\_code:string |
| county\_code:string | county\_code:string |
| sales\_figure\_currency\_code:string | sales\_figure\_currency\_code:string |
| master\_record\_delete\_flag:string | master\_record\_delete\_flag:string |
| first\_fax\_num:string | first\_fax\_num:string |
| title1\_name | title1\_name:string |
| legal\_status\_code:string | legal\_status\_code:string |
| customer\_short\_name:string | customer\_short\_name:string |
| payment\_block\_code:string | payment\_block\_code:string |
| tax\_jrsdct\_code:string | tax\_jrsdct\_code:string |
| central\_order\_block\_code:string | central\_order\_block\_code:string |
| express\_train\_station\_name:string | express\_train\_station\_name:string |
| train\_station\_name:string | train\_station\_name:string |
| intl\_loc1\_num:string | intl\_loc1\_num:string |
| intl\_loc2\_num:string | intl\_loc2\_num:string |
| intl\_loc\_check\_digit\_num:string | intl\_loc\_check\_digit\_num:string |
| central\_sales\_block\_flag:string | central\_sales\_block\_flag:string |
| biochemical\_warfare\_flag:string | biochemical\_warfare\_flag:string |
| nuclear\_prevent\_flag:string | nuclear\_prevent\_flag:string |
| national\_security\_flag:string | national\_security\_flag:string |
| missile\_tech\_flag:string | missile\_tech\_flag:string |
| customer\_fiscal\_code:string | customer\_fiscal\_code:string |
| non\_military\_use\_flag:string | non\_military\_use\_flag:string |
| data\_comm\_line\_num:string | data\_comm\_line\_num:string |
| compttr\_flag:string | compttr\_flag:string |
| sales\_partner\_flag:string | sales\_partner\_flag:string |
| sales\_prospect\_flag:string | sales\_prospect\_flag:string |
| customer\_type4\_flag:string | customer\_type4\_flag:string |
| default\_sold\_to\_party\_id:string | default\_sold\_to\_party\_id:string |
| consumer\_flag:string | consumer\_flag:string |
| data\_medium\_exchange\_flag:string | data\_medium\_exchange\_flag:string |
| data\_transfer\_into\_subseq\_release\_code:string | data\_transfer\_into\_subseq\_release\_code:string |
| initial\_contact\_flag:string | initial\_contact\_flag:string |
| record\_create\_date:string | record\_create\_date:string |
| object\_create\_name:string | object\_create\_name:string |
| customer\_plant\_group\_flag:string | customer\_plant\_group\_flag:string |
| unload\_point\_exist\_flag:string | unload\_point\_exist\_flag:string |
| central\_billing\_block\_for\_customer\_code:string | central\_billing\_block\_for\_customer\_code:string |
| master\_fiscal\_address\_account\_num:string | master\_fiscal\_address\_account\_num:string |
| assign\_to\_hier\_id:string | assign\_to\_hier\_id:string |
| inspect\_for\_dlvry\_note\_after\_outbound\_dlvry\_flag:string | inspect\_for\_dlvry\_note\_after\_outbound\_dlvry\_flag:string |
| inspect\_carry\_out\_by\_customer\_flag:string | inspect\_carry\_out\_by\_customer\_flag:string |
| employee\_year\_num:string | employee\_year\_num:string |
| year\_employee\_cnt:string | year\_employee\_cnt:string |
| customer\_attr1\_code:string | customer\_attr1\_code:string |
| customer\_attr10\_code:string | customer\_attr10\_code:string |
| customer\_attr2\_code:string | customer\_attr2\_code:string |
| customer\_attr3\_code:string | customer\_attr3\_code:string |
| customer\_attr4\_code:string | customer\_attr4\_code:string |
| customer\_attr5\_code:string | customer\_attr5\_code:string |
| customer\_attr6\_code:string | customer\_attr6\_code:string |
| customer\_attr7\_code:string | customer\_attr7\_code:string |
| customer\_attr8\_code:string | customer\_attr8\_code:string |
| customer\_attr9\_code:string | customer\_attr9\_code:string |
| customer\_cond\_group1\_code:string | customer\_cond\_group1\_code:string |
| customer\_cond\_group2\_code:string | customer\_cond\_group2\_code:string |
| customer\_cond\_group3\_code:string | customer\_cond\_group3\_code:string |
| customer\_cond\_group4\_code:string | customer\_cond\_group4\_code:string |
| customer\_cond\_group5\_code:string | customer\_cond\_group5\_code:string |
| work\_time\_cal\_name:string | work\_time\_cal\_name:string |
| alt\_payer\_account\_num:string | alt\_payer\_account\_num:string |
| uniform\_resource\_code:string | uniform\_resource\_code:string |
| one\_time\_account\_ref\_group\_code:string | one\_time\_account\_ref\_group\_code:string |
| trans\_zone\_code:string | trans\_zone\_code:string |
| search\_term1\_name:string | search\_term1\_name:string |
| search\_term\_name:string | search\_term\_name:string |
| search\_term2\_name:string | search\_term2\_name:string |
| main\_military\_use\_id:string | main\_military\_use\_id:string |
| central\_posting\_block\_flag:string | central\_posting\_block\_flag:string |
| tax4\_num:string | tax4\_num:string |
| tax\_num\_type\_code:string | tax\_num\_type\_code:string |
| equalzn\_tax\_bus\_partner\_subject\_flag:string | equalzn\_tax\_bus\_partner\_subject\_flag:string |
| natural\_person\_flag:string | natural\_person\_flag:string |
| liable\_for\_vat\_flag:string | liable\_for\_vat\_flag:string |
| telebox\_num:string | telebox\_num:string |
| second\_phone\_num:string | second\_phone\_num:string |
| teletex\_num:string | teletex\_num:string |
| sales\_year\_num:string | sales\_year\_num:string |
| annual\_sales1\_amt:decimal(8,2) | annual\_sales1\_amt DECIMAL(8,2) |
| annual\_sales2\_amt:decimal(15,2) | annual\_sales2\_amt DECIMAL(15,2) |
| icms\_exempt\_customer\_flag:string | icms\_exempt\_customer\_flag:string |
| alt\_payer\_using\_account\_num\_flag:string | alt\_payer\_using\_account\_num\_flag:string |
| customer\_group\_for\_tax\_substtn\_calc\_code:string | customer\_group\_for\_tax\_substtn\_calc\_code:string |
| indstrl\_prod\_tax\_exempt\_customer\_flag:string | indstrl\_prod\_tax\_exempt\_customer\_flag:string |
| alt\_payer\_allow\_in\_doc\_flag:string | alt\_payer\_allow\_in\_doc\_flag:string |
| group\_key\_code:string | group\_key\_code:string |
| telex\_num:string | telex\_num:string |
| data\_medium\_exchange\_instr\_code:string | data\_medium\_exchange\_instr\_code:string |
| state\_vat\_law\_val:string | state\_vat\_law\_val:string |
| indstrl\_prod\_tax\_law\_val:string | indstrl\_prod\_tax\_law\_val:string |
| city\_code:string | city\_code:string |
| city\_coord\_val:string | city\_coord\_val:string |
| po\_box\_city\_name:string | po\_box\_city\_name:string |
| regional\_market\_name:string | regional\_market\_name:string |
| vat\_registn\_num:string | vat\_registn\_num:string |
| tax\_code:string | tax\_code:string |
| email\_address\_name:string | email\_address\_name:string |
| corp\_group\_name:string | corp\_group\_name:string |
| customer\_team\_code:string | customer\_team\_code:string |
| corporate\_group\_name:string | corporate\_group\_name:string |
| distrib\_channel\_code:string | distrib\_channel\_code:string |

**Plant\_na\_dim:**

|  |  |
| --- | --- |
| **plant\_na\_dim** | |
| **cdl\_ps\_dev.silver\_ps\_transfix\_na** | **cdl\_ps\_prod.silver\_transfix\_tv\_na** |
| plant\_id:string | plant\_id:string |
| city\_name:string | city\_name:string |
| company\_code:string | company\_code:string |
| country\_code:string | country\_code:string |
| county\_code:string | county\_code:string |
| interco\_billing\_distrib\_channel\_code:string | interco\_billing\_distrib\_channel\_code:string |
| interco\_billing\_divison\_code:string | interco\_billing\_divison\_code:string |
| factory\_cal\_code:string | factory\_cal\_code:string |
| vltn\_area\_num:string | vltn\_area\_num:string |
| lang\_code:string | lang\_code:string |
| city\_code:string | city\_code:string |
| plant\_name:string | plant\_name:string |
| plant2\_name:string | plant2\_name:string |
| maint\_plan\_plant\_name:string | maint\_plan\_plant\_name:string |
| plant\_categ\_code:string | plant\_categ\_code:string |
| po\_box\_num:string | po\_box\_num:string |
| postal\_code\_num:string | postal\_code\_num:string |
| purchase\_org\_name:string | purchase\_org\_name:string |
| region\_code:string | region\_code:string |
| customer\_num:string | customer\_num:string |
| interco\_billing\_sales\_org\_num:string | interco\_billing\_sales\_org\_num:string |
| sales\_district\_name:string | sales\_district\_name:string |
| house\_num\_and\_street\_name:string | house\_num\_and\_street\_name:string |
| tax\_jrsdct\_code:string | tax\_jrsdct\_code:string |
| vendor\_plant\_num:string | vendor\_plant\_num:string |
| variance\_code:string | variance\_code:string |
| actvng\_reqmt\_plan\_flag:string | actvng\_reqmt\_plan\_flag:string |
| po\_tolrnc\_compress\_day\_cnt:string, | po\_tolrnc\_compress\_day\_cnt:string |
| take\_regular\_vendor\_into\_account\_flag:string | take\_regular\_vendor\_into\_account\_flag:string |
| batch\_status\_mgmt\_active\_flag:string | batch\_status\_mgmt\_active\_flag:string |
| plant\_level\_cond\_flag:string | plant\_level\_cond\_flag:string |
| source\_list\_reqmt\_flag:string | source\_list\_reqmt\_flag:string |
| first\_reminder\_day\_cnt:DECIMAL(3,0) | first\_reminder\_day\_cnt:DECIMAL(3,0) |
| second\_reminder\_day\_cnt:DECIMAL(3,0) | second\_reminder\_day\_cnt:DECIMAL(3,0) |
| third\_reminder\_day\_cnt:DECIMAL(3,0) | third\_reminder\_day\_cnt:DECIMAL(3,0) |
| plant\_purchase\_tax\_flag:string | plant\_purchase\_tax\_flag:string |
| first\_dunning\_of\_vendor\_declr\_name:string | first\_dunning\_of\_vendor\_declr\_name:string |
| second\_dunning\_of\_vendor\_declr\_name:string | second\_dunning\_of\_vendor\_declr\_name:string |
| third\_dunning\_of\_vendor\_declr\_name:string | third\_dunning\_of\_vendor\_declr\_name:string |
| supply\_region\_name:string | supply\_region\_name:string |

**Sales\_org\_na\_dim:**

|  |  |
| --- | --- |
| **sales\_org\_na\_dim** | |
| **cdl\_ps\_dev.silver\_ps\_transfix\_na** | **cdl\_ps\_prod.silver\_transfix\_tv\_na** |
| sales\_org\_id:string | sales\_org\_id:string |
| sales\_org\_company\_code:string | sales\_org\_company\_code:string |
| country\_code:string | country\_code:string |
| currency\_code:string | currency\_code:string |
| fiscal\_year\_variant\_code:string | fiscal\_year\_variant\_code:string |
| interco\_billing\_customer\_num:string | interco\_billing\_customer\_num:string |
| stats\_currency\_code:string | stats\_currency\_code:string |

**Vendor\_na\_dim:**

|  |  |
| --- | --- |
| **vendor\_na\_dim** | |
| **cdl\_ps\_dev.silver\_ps\_transfix\_na** | **cdl\_ps\_prod.silver\_transfix\_tv\_na** |
| vendor\_account\_num:string | vendor\_account\_num:string |
| vendor\_account\_group\_code:string | vendor\_account\_group\_code:string |
| city\_name:string | city\_name:string |
| district\_name:string | district\_name:string |
| country\_code:string | country\_code:string |
| credit\_info\_num:string | credit\_info\_num:string |
| fax\_num:string | fax\_num:string |
| one\_time\_account\_flag:string | one\_time\_account\_flag:string |
| industry\_code:string | industry\_code:string |
| lang\_code:string | lang\_code:string |
| carr1\_name:string | carr1\_name:string |
| carr2\_name:string | carr2\_name:string |
| carr3\_name:string | carr3\_name:string |
| trade\_partner\_company\_id:string | trade\_partner\_company\_id:string |
| first\_phone\_num:string | first\_phone\_num:string |
| plant\_code:string | plant\_code:string |
| po\_box\_num:string | po\_box\_num:string |
| postal\_code\_num:string | postal\_code\_num:string |
| po\_box\_postal\_code\_num:string | po\_box\_postal\_code\_num:string |
| region\_code:string | region\_code:string |
| sort\_field\_name:string | sort\_field\_name:string |
| house\_num\_and\_street\_name:string | house\_num\_and\_street\_name:string |
| tax1\_num:string | tax1\_num:string |
| tax2\_num:string | tax2\_num:string |
| master\_record\_delete\_flag:string | master\_record\_delete\_flag:string |
| last\_review\_date:string | last\_review\_date:string |
| tax\_jrsdct\_code:string | tax\_jrsdct\_code:string |
| train\_station\_name:string | train\_station\_name:string |
| intl\_loc1\_num:string | intl\_loc1\_num:string |
| intl\_loc2\_num:string | intl\_loc2\_num:string |
| intl\_loc\_check\_digit\_num:string | intl\_loc\_check\_digit\_num:string |
| data\_comm\_line\_num:string | data\_comm\_line\_num:string |
| data\_medium\_exchange\_flag:string | data\_medium\_exchange\_flag:string |
| isr\_subscriber\_num:string | isr\_subscriber\_num:string |
| fiscal\_address\_account\_num:string | fiscal\_address\_account\_num:string |
| withhold\_tax\_person\_birth\_date:string | withhold\_tax\_person\_birth\_date:string |
| withhold\_tax\_person\_birth\_place\_name:string | withhold\_tax\_person\_birth\_place\_name:string |
| one\_time\_account\_ref\_account\_group\_name:string | one\_time\_account\_ref\_account\_group\_name:string |
| alt\_payee\_account\_num:string | alt\_payee\_account\_num:string |
| vendor\_sub\_range\_relevant\_flag:string | vendor\_sub\_range\_relevant\_flag:string |
| search\_term1\_name:string | search\_term1\_name:string |
| search\_term2\_name:string | search\_term2\_name:string |
| search\_term3\_name:string | search\_term3\_name:string |
| factory\_cal\_code:string | factory\_cal\_code:string |
| withhold\_tax\_person\_sex\_code:string | withhold\_tax\_person\_sex\_code:string |
| central\_impose\_purchase\_block\_flag:string | central\_impose\_purchase\_block\_flag:string |
| block\_function\_code:string | block\_function\_code:string |
| central\_posting\_block\_flag:string | central\_posting\_block\_flag:string |
| equalzn\_tax\_bus\_partner\_subject\_flag:string | equalzn\_tax\_bus\_partner\_subject\_flag:string |
| natural\_person\_flag:string | natural\_person\_flag:string |
| liable\_for\_vat\_flag:string | liable\_for\_vat\_flag:string |
| telebox\_num:string | telebox\_num:string |
| second\_phone\_num:string | second\_phone\_num:string |
| teletex\_num:string | teletex\_num:string |
| plant\_level\_relevant\_flag:string | plant\_level\_relevant\_flag:string |
| alt\_payee\_allow\_flag:string | alt\_payee\_allow\_flag:string |
| minority\_ind\_code:string | minority\_ind\_code:string |
| title1\_name:string | title1\_name:string |
| data\_medium\_exchange\_instr\_code:string | data\_medium\_exchange\_instr\_code:string |
| record\_create\_date:string | record\_create\_date:string |
| object\_create\_name:string | object\_create\_name:string |
| group\_code:string | group\_code:string |
| customer\_num:string | customer\_num:string |
| carr4\_name:string | carr4\_name:string |
| telex\_num:string | telex\_num:string |
| vat\_registn\_num:string | vat\_registn\_num:string |
| po\_box\_city\_name:string | po\_box\_city\_name:string |
| payment\_block\_code:string | payment\_block\_code:string |
| std\_carr\_access\_code:string | std\_carr\_access\_code:string |