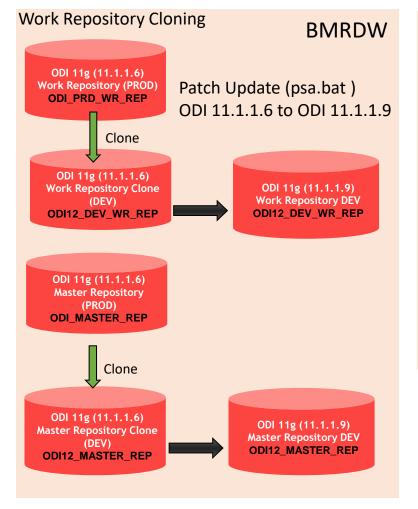
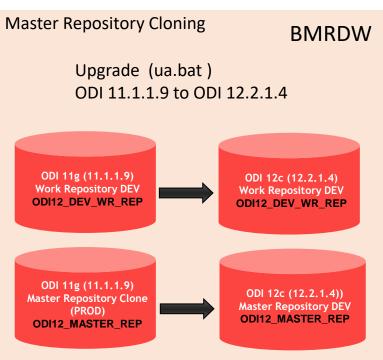
ODI 12c Upgrade KT Session

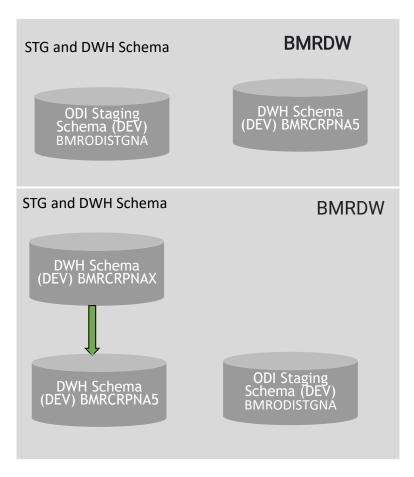
Agenda

- ODI 11g to ODI 12c Upgrade Steps
- ODI 12c new features overview
- ODI 12c features Example
- ODI 11g to ODI 12c Migration Issues Example
- Demo
- Q&A

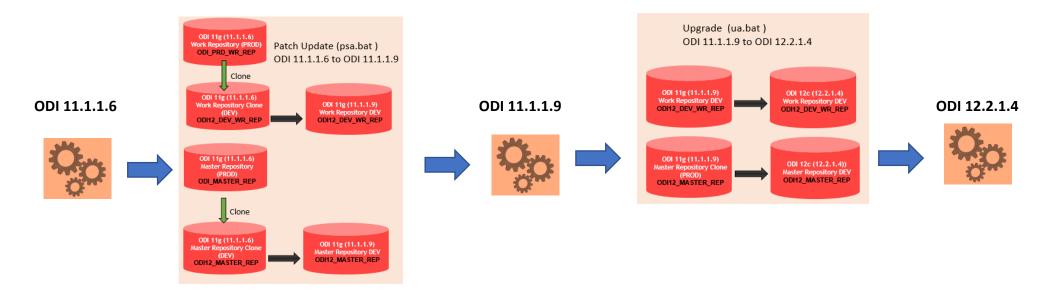
High level Upgrade Steps





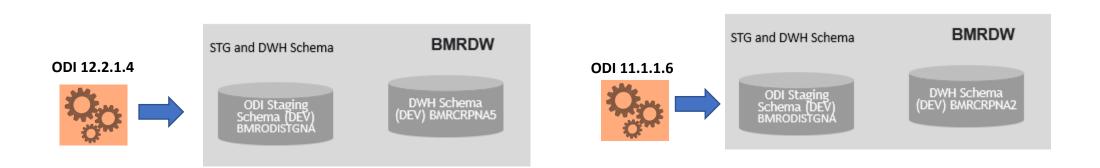


ODI Repository Upgrade Steps



Warehouse Schema

ODI 12.2.1.4 / BMRCRPNA5



ODI 11.1.1.6 / BMRCRPNA2

New Features of ODI 12c - Overview

- Mappings in place of Interface in Oracle Data Integrator 11g
- Reusable Mappings in place of Yellow interface
- Flow based user interface, connect sources to targets through a flow of components such as: Join, Filter, Aggregate, Set, Split, etc.
- Multiple Target Support
- Knowledge Module Architecture
 - Component-Style KM: provides an extensible component framework that improves the overall mapping design, where for example users are able to declare the transformation order
 - Template-Style KM (11g)
- Wallet Password in ODI 12c
- Agents Configuration in ODI 12C Standalone Agent vs ODI 11g Agents.
 - Manual intervention is required to configure odiparams.bat file in ODI 11g.
 - UI driven configuration through configuration wizard in ODI 12c.

Yellow Interface to Reusable Mapping

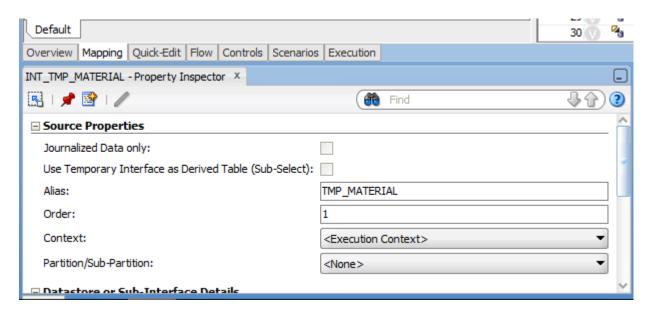
- During upgrade from Oracle Data Integrator ODI 11g to ODI 12c, Temporary Interfaces are converted into Reusable Mappings.
- This results in creation of _RMT and _RMS Reusable Mappings.
- A temporary table gets created during execution.

ODI 11g Temporary Interface Upgrade to ODI 12c Reusable Mappings

In ODI 11g, a sub-interface component has a Use Temporary Interface as Derived Table (Sub-Select) property. The value of this property determines which of _RMS or _RMT Reusable Mapping will be used after upgrading to ODI 12c:

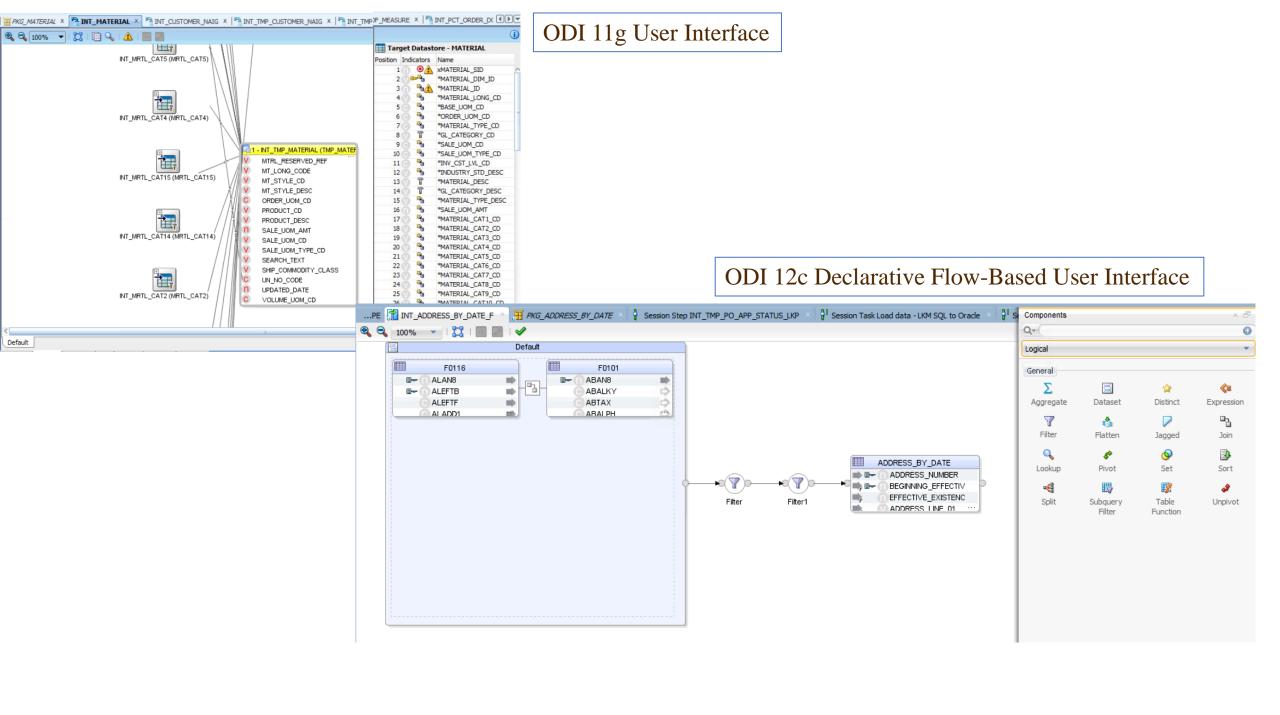
•In case where the property "Use Temporary Interface as Derived Table (Sub-Select)" <u>is unchecked</u> prior to the upgrade or import from 11g, the _RMT Reusable Mapping is used.

•If in the 11g the above property is checked and the Temporary Interface / Repository is upgraded or imported to 12c, the Reusable Mapping used is _RMS.



Use Temporary Interface as Derived Table (Sub-Select) - This option is available only if the source datastore is a temporary target datastore of another interface.

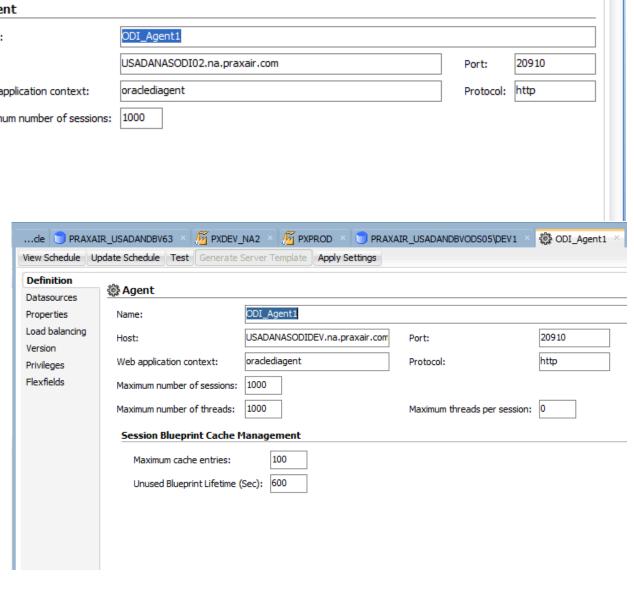
When this box is selected, the interface generates a sub-select corresponding to the loading of the temporary datastore. If this box is not selected, make sure to run the interface loading the temporary datastore before running the current interface.



A2 × | PXDEV_NA4 × | PXPROD × ODI_Agent1 × PRAXAIR_USADANDBVODS04 × PRAXAIR_USADANDBVODS05\DEV1 × | **Agents Configuration** View Schedule Update Schedule Test Generate Server Template Definition 🗱 Agent Data Sources ODI_Agent1 Properties Name: Load balancing Manual configuration of odiparams.bat file in ODI 11g USADANASODI02.na.praxair.com Host: Version oraclediagent Web application context: Privileges Flexfields 1000 Maximum number of sessions:

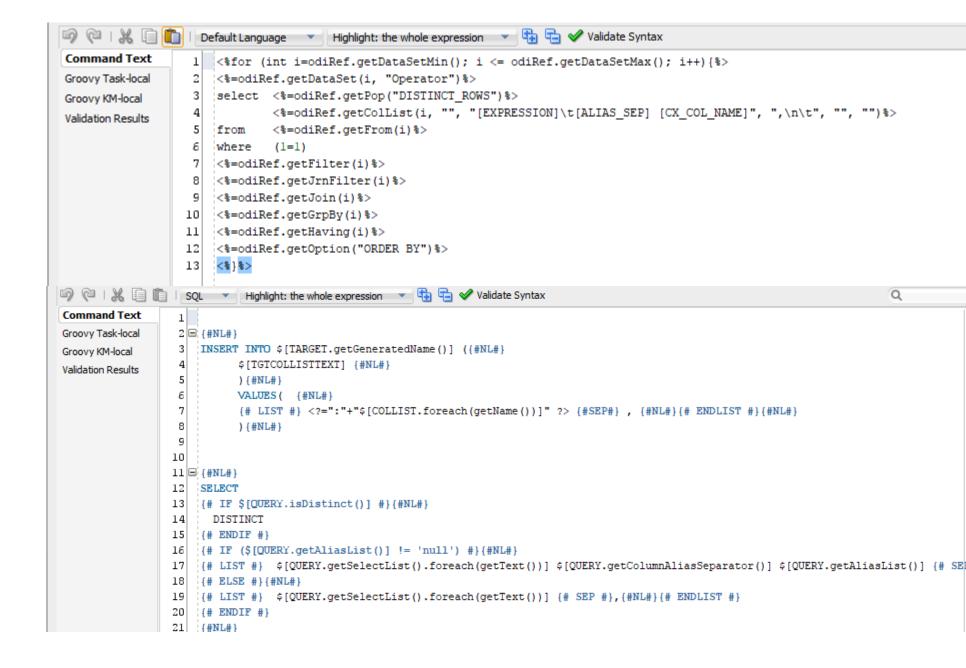
UI driven configuration through configuration wizard in ODI 12c

C:\oracle\product\12.2.1.4\odi\common\bin\Configuration.cmd

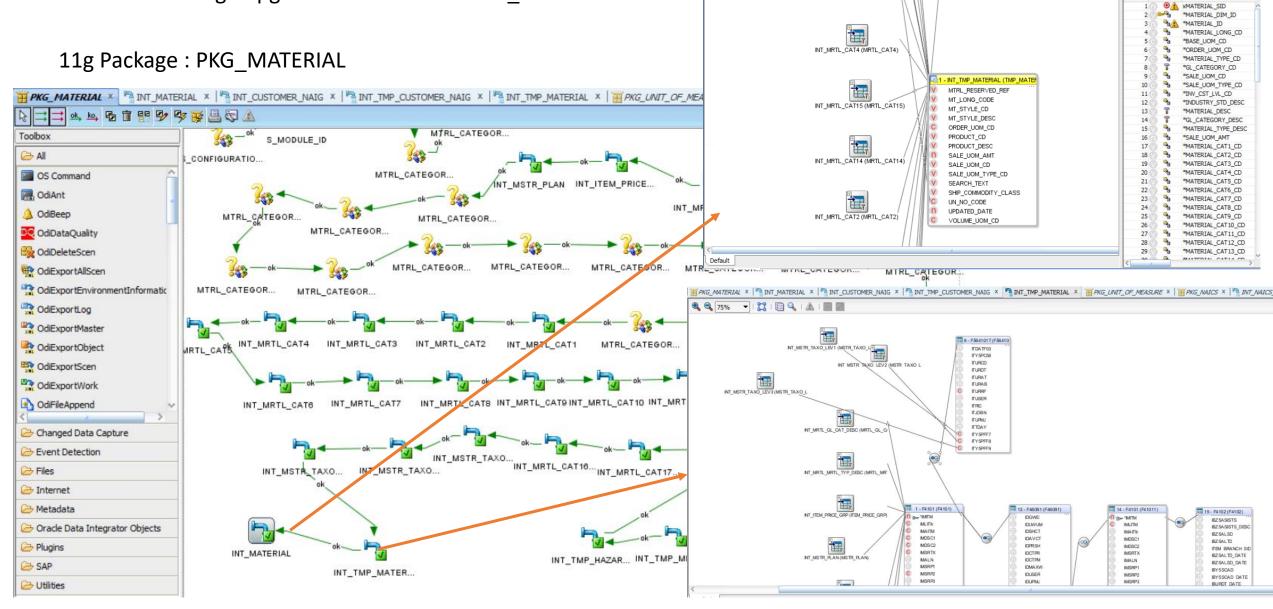


Template-Style KM (11g)

Component-Style KM



A ODI 11c Package upgraded to ODI 12c – PKG_MATERIAL



🎬 PKG MATERIAL × 📳 INT MATERIAL × 🖺 INT CUSTOMER NAIG × 🖺 INT TMP CUSTOMER NAIG × 🖺 INT TMP MATERIAL × 📜 PKG OF MEASURE × 🕒 INT PCT ORDER DX

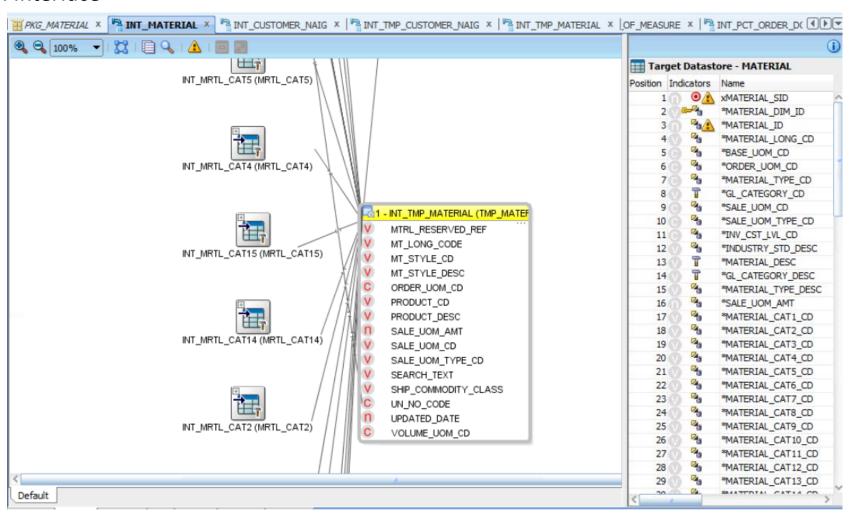
Target Datastore - MATERIAL

Position Indicators Name

INT_MRTL_CATS (MRTL_CATS)

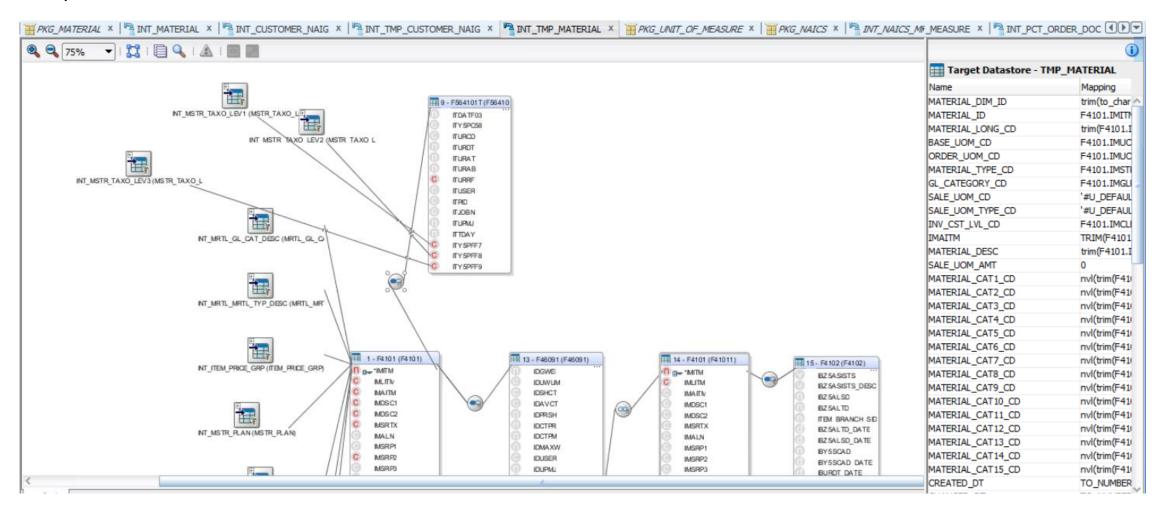
11g Interface: INT_MATERIAL

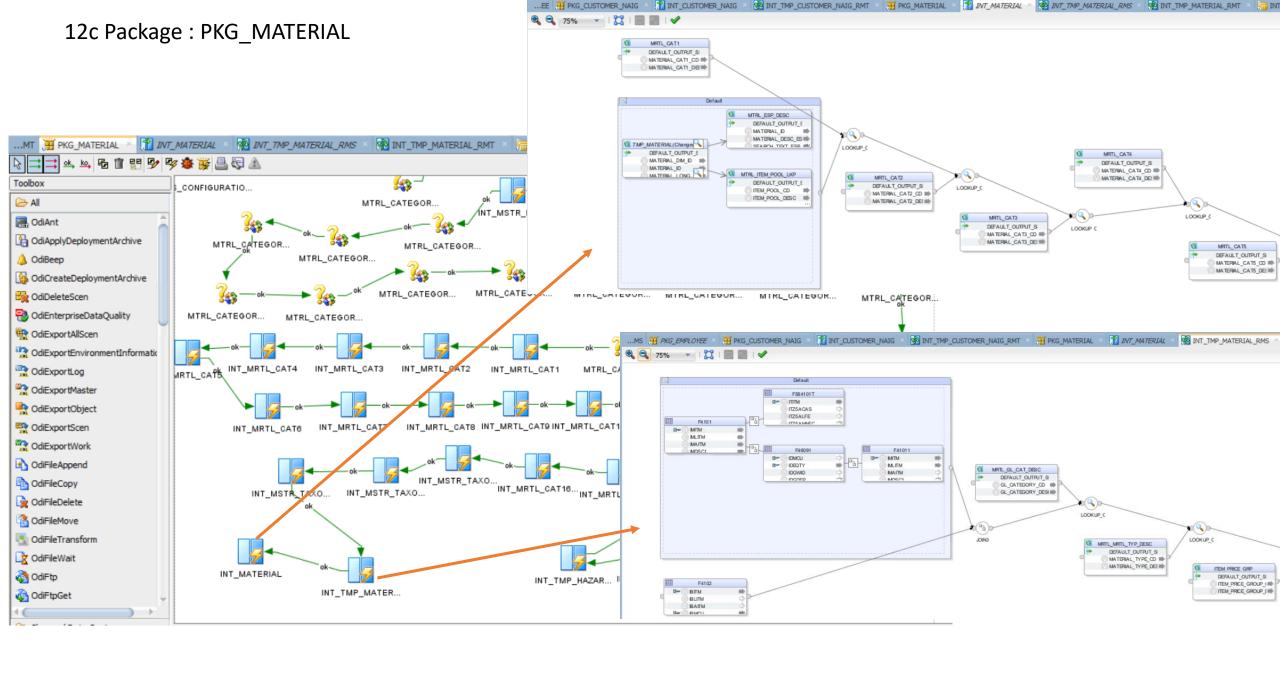
Main Interface



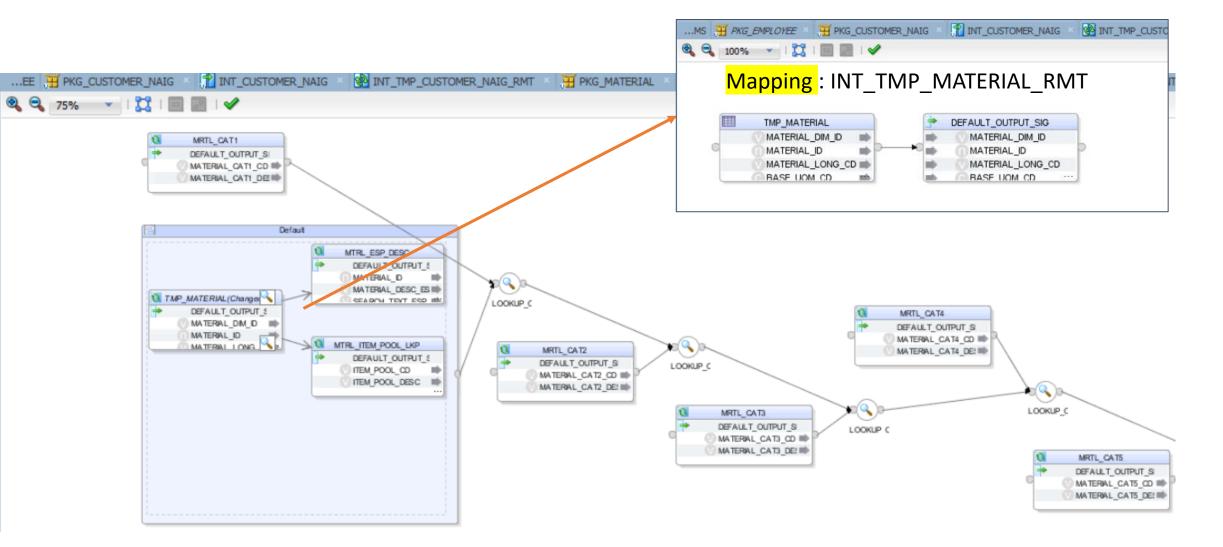
11g Temp Interface: INT_TMP_MATERIAL

Temp Interface

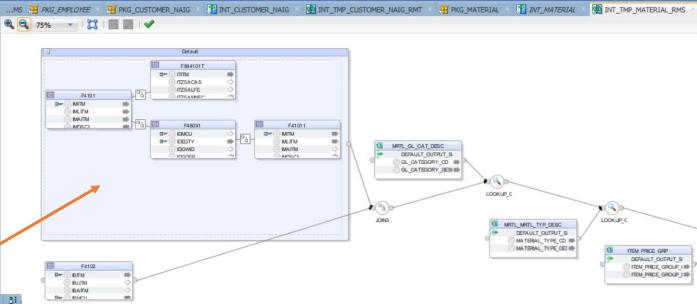




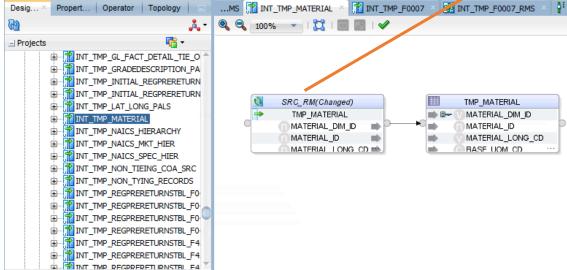
Main Mapping: INT_MATERIAL



INT_TMP_MATERIAL_RMS (reusable mapping source)



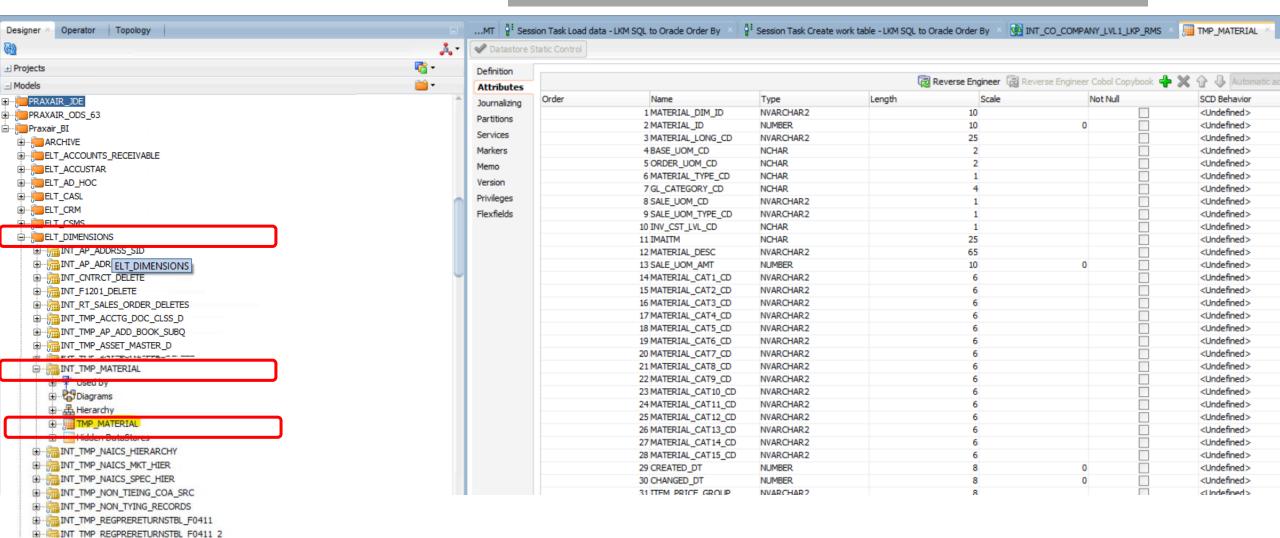
INT_TMP_MATERIAL



Model: INT TMP MATERIAL

New Model folder Praxair_Bl is created.

New Model got created for Reusable Mapping.



ODI Operator 11g vs 12c

```
± .... 566 - Loading - SrcSet0 - Drop work table
± ... € 567 - Loading - SrcSet0 - Create work table
± ... 		 576 - Integration - INT TMP MATERIAL - Create Index on flow table
± ... 		 577 - Integration - INT TMP MATERIAL - Analyze integration table
```

ODI 11g

```
<u>★</u>.... 586 - Integration - INT_MATERIAL - Create Index on flow table.

± .... 1589 - Control - MATERIAL - drop check view
± ... € 593 - Control - MATERIAL - drop error table

<u>★</u>....  647 - Integration - INT_MATERIAL - Flag rows for update.

± ... € 651 - Integration - INT MATERIAL - Commit transaction
```

```
• 45:26 AM
• 45:26 AM
          🍦 🕢 40 - Create work table - LKM SQL to Oracle
             80 - Create target table - IKM Oracle Incremental Update
                    📤 90 - Drop flow table - IKM Oracle Incremental Update
                    100 - Create flow table I$ - IKM Oracle Incremental Update
                    110 - Truncate target table - IKM Oracle Incremental Update
                    120 - Insert flow into I$ table - IKM Oracle Incremental Update
                    130 - Create Index on flow table - IKM Oracle Incremental Update
                    🚺 140 - Analyze integration table - IKM Oracle Incremental Update
                    150 - Flag rows for update - IKM Oracle Incremental Update
                    160 - Flag useless rows - IKM Oracle Incremental Update
                    170 - Disable constraints - IKM Oracle Incremental Update
                    180 - Disable indexes - IKM Oracle Incremental Update
                    190 - Insert new rows - IKM Oracle Incremental Update
                   🕢 200 - Enable indexes - IKM Oracle Incremental Update
                    210 - Enable constraints - IKM Oracle Incremental Update
       250 - Drop work table - LKM SQL to Oracle
           ☐ 70 - INT_MATERIAL - Jan 12, 2022 9:47:59 AM
      🗜 🕜 40 - Create flow table I$ - IKM Oracle Incremental Update
               50 - Analyze target table - IKM Oracle Incremental Update
               🕜 60 - Insert flow into I$ table - IKM Oracle Incremental Update
               70 - Create Index on flow table - IKM Oracle Incremental Update
               80 - Analyze integration table - IKM Oracle Incremental Update
               20 90 - drop check table - CKM Oracle
                100 - drop check view - CKM Oracle
                110 - drop check EV - CKM Oracle
               120 - create check table - CKM Oracle
               130 - delete previous check sum - CKM Oracle
               140 - drop error table - CKM Oracle
               150 - create error table - CKM Oracle
               160 - delete previous errors - CKM Oracle
               170 - Create index on PK - CKM Oracle
               180 - insert PK errors - CKM Oracle
               🔼 190 - insert Not Null errors - CKM Oracle
               650 - insert Not Null errors - CKM Oracle
               🖟 🔼 660 - delete errors from controlled table - CKM Oracle
               🖟 🔼 670 - insert check sum into check table - CKM Oracle
               680 - Flag rows for update - IKM Oracle Incremental Update
               690 - Flag useless rows - IKM Oracle Incremental Update
               700 - Disable constraints - IKM Oracle Incremental Update
               🖟 🔼 710 - Disable indexes - IKM Oracle Incremental Update
               720 - Update existing rows - IKM Oracle Incremental Update
               730 - Insert new rows - IKM Oracle Incremental Update
               🛮 🕢 740 - Enable indexes - IKM Oracle Incremental Update
```

🖟 🔼 750 - Enable constraints - IKM Oracle Incremental Update

🖟 📿 760 - Commit transaction - IKM Oracle Incremental Update

770 - Analyze target table - IKM Oracle Incremental Update

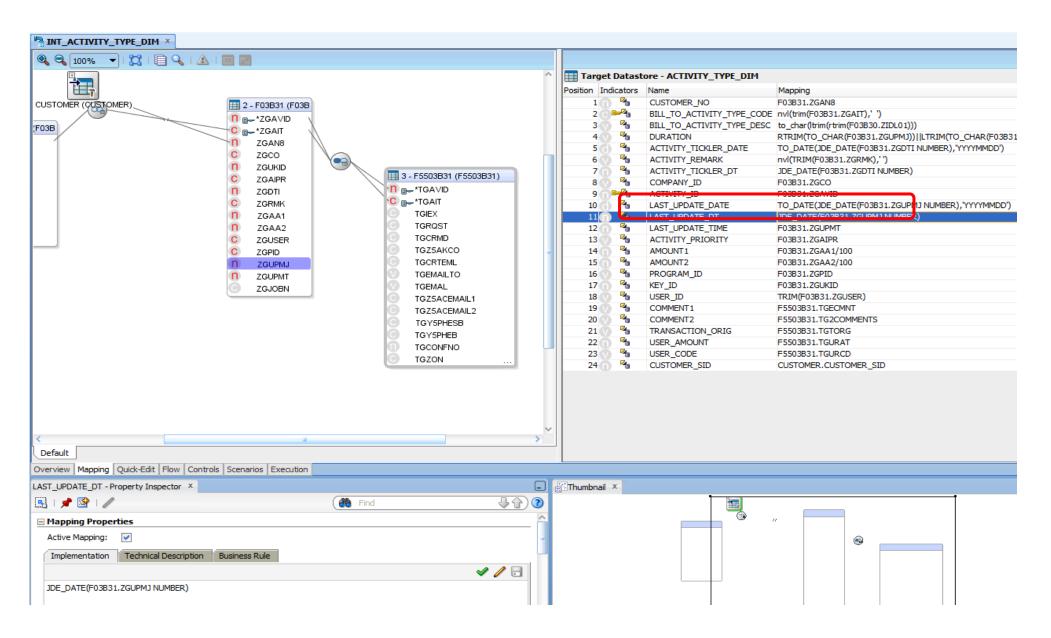
Steps are Categorized based on stages

ODI 12c

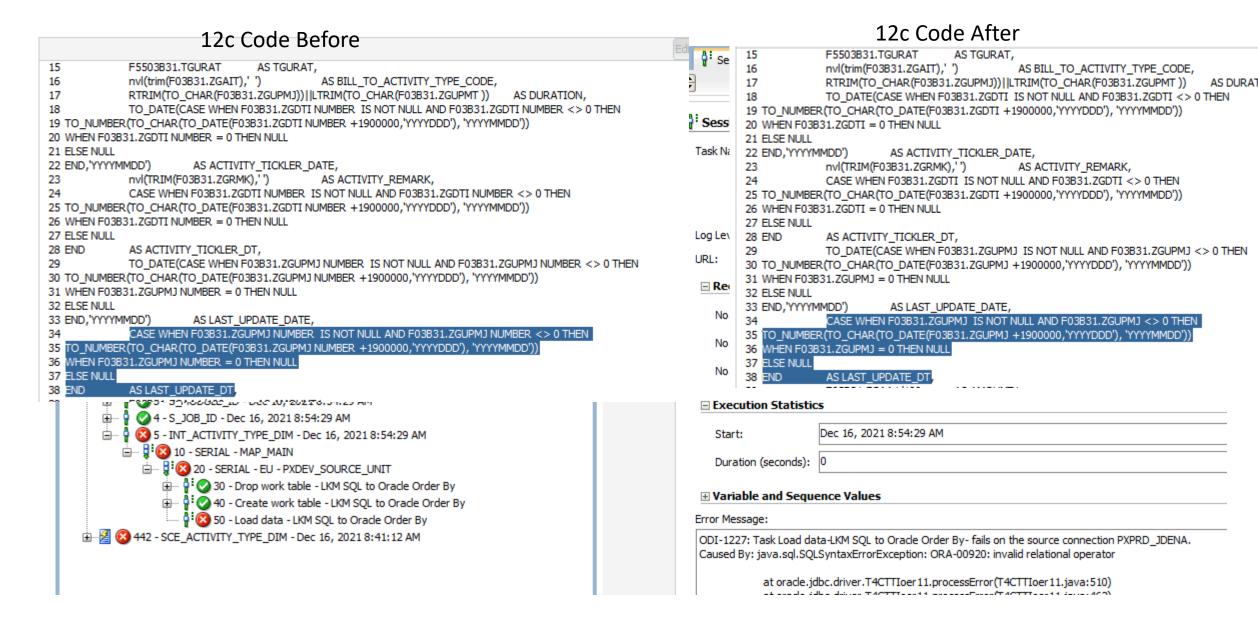
ODI 11g to ODI 12c Migration Issues

- Context Issue
- Refresh Variable Issue
- File Missing issue
- column length issue
- Batch script not in tidal scheduler
- Column missing on target issue
- Data issue Too much of data or too less data (Extract from Date and to Date settings)
- jde_date issue
- Reusable mapping issue (set, distinct, aggregate components)
- Variable calling issue

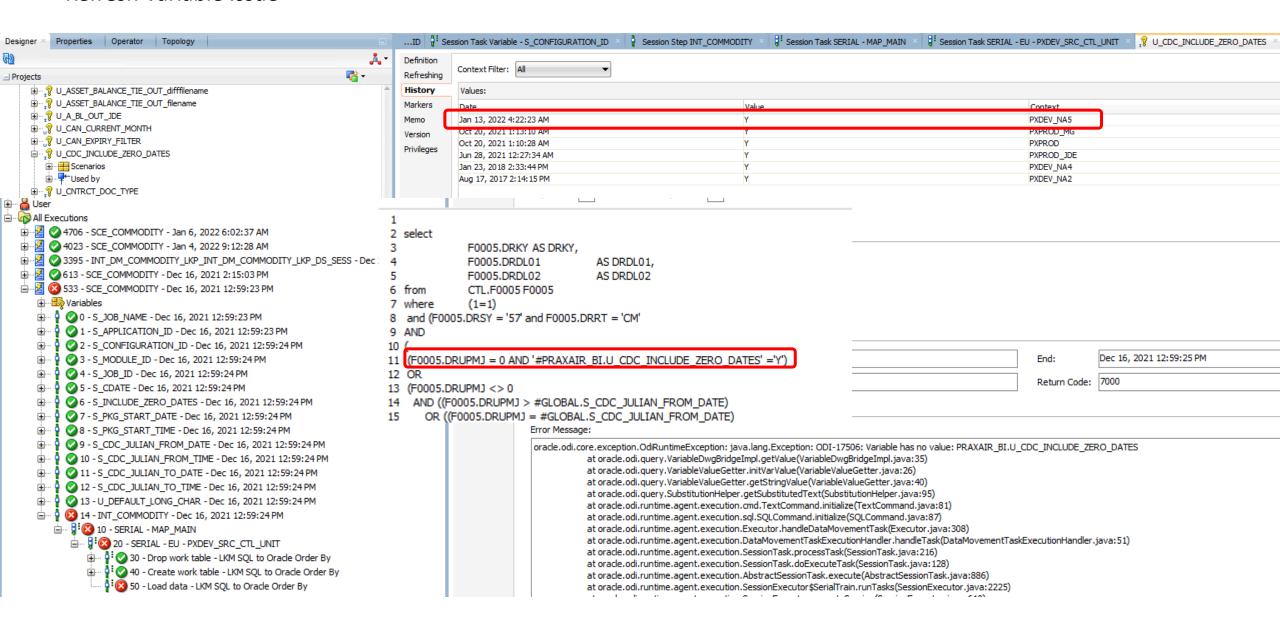
11g Code



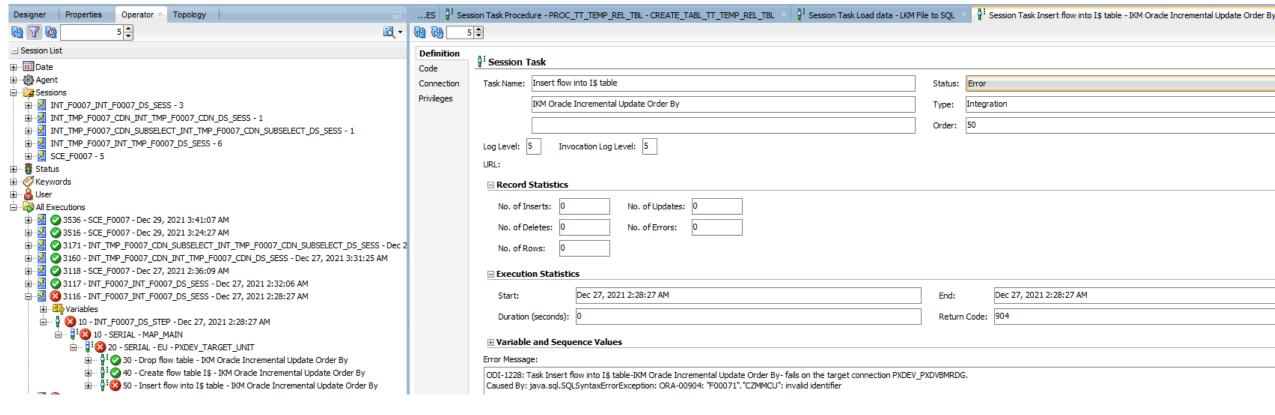
JDE_DATE Issue



Refresh Variable Issue



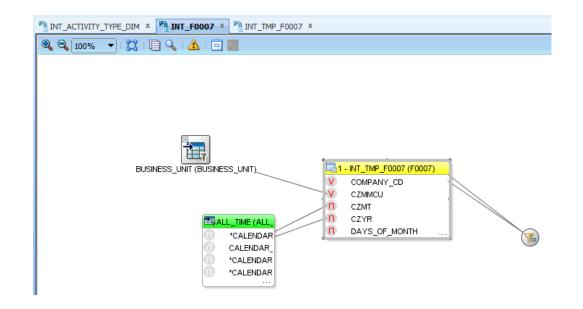
reusable mapping issue

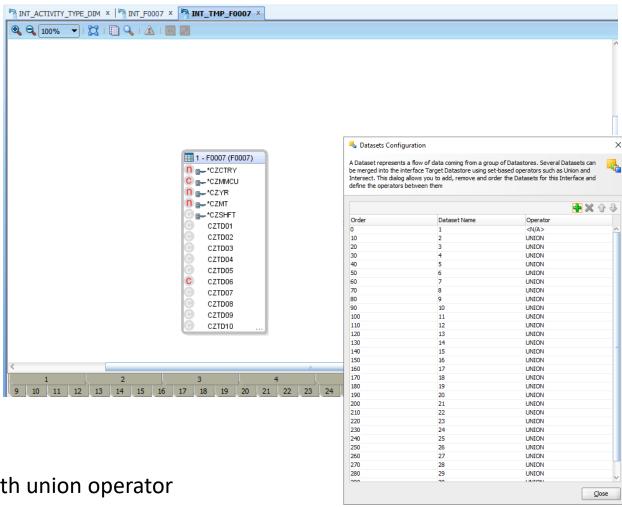


Error Message:

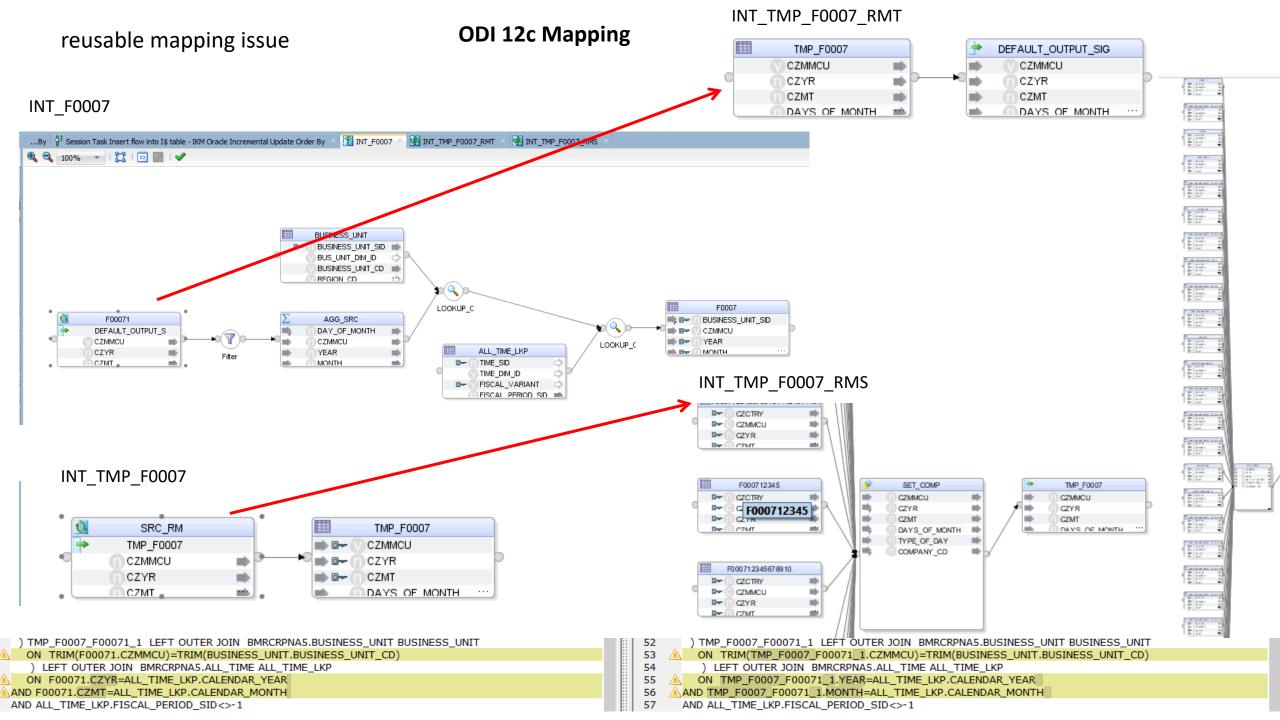
ODI-1228: Task Insert flow into I\$ table-IKM Oracle Incremental Update Order By- falls on the target connection PXDEV_PXDVBMRDG. Caused By: java.sql.SQLSyntaxErrorException: ORA-00904: "F00071". "CZMMCU": invalid identifier

ODI 11g Interface for INT_TMP_F0007



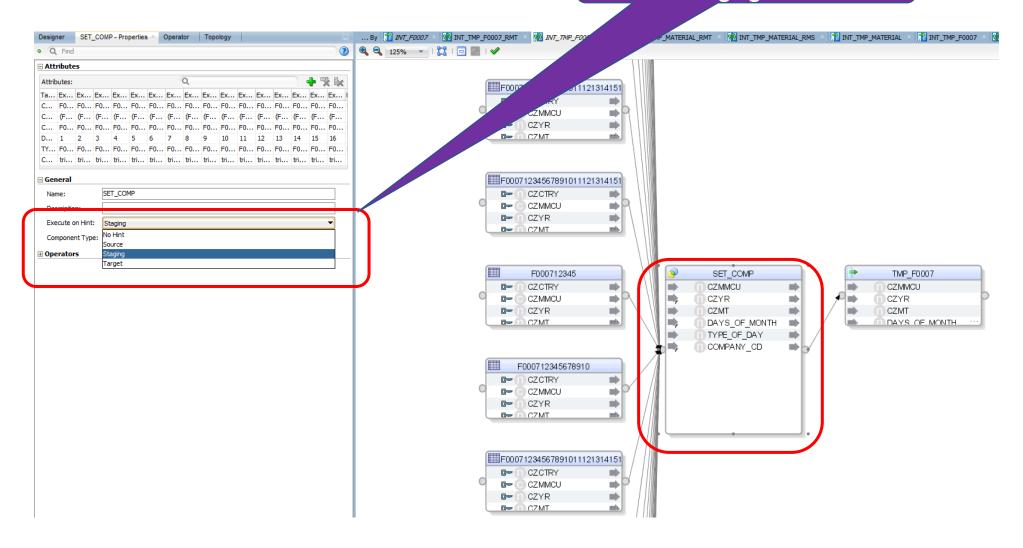


F0007 Interface with Multiple data sets and target data with union operator



reusable mapping issue – Resolution

Change Execute on Hint from **Source** to **Staging**



reusable mapping issue

Comparison of ODI 11g and ODI 12c Code

```
/# DETECTION_STRATEGY = NOT_EXISTS *
insert /*+ append */ into BMRODISTGNA.I$_F0007
  BUSINESS_UNIT_SID,
  CZMMCU.
   MONTH
  TYPE OF DAY,
  FISCAL PERIOD SID
  COMPANY CD.
  IND_UPDATE
BUSINESS UNIT SID.
  CZMMCU
  YEAR.
  DAY_OF_MONTH,
  TYPE OF DAY.
  FISCAL_PERIOD_SID,
  COMPANY_CD,
  IND UPDATE
 from (
select
  NVL(BUSINESS UNIT.BUSINESS UNIT. SID.0) BUSINESS UNIT. SID.
  F0007.CZMMCU CZMMCU,
  F0007.CZYR YEAR,
   F0007.CZMT MONTH
  COUNT(F0007.DAYS OF MONTH) DAY OF MONTH,
   F0007.TYPE_OF_DAY TYPE_OF_DAY,
   ALL_TIME_LKP.FISCAL_PERIOD_SID_FISCAL_PERIOD_SID,
  NVL(F0007.COMPANY_CD, 1) COMPANY_CD,
from (BMRODISTGNA.TMP F0007 F0007 LEFT OUTER JOIN BMRCRPNA6.BUSINESS UNIT BUSINESS UNIT ON TRIM(F0007.CZMMCU)=TRIM(BUSINESS UNIT.BUSINESS UNIT CO)) LEFT OU
AND F0007.CZMT=ALL_TIME_LKP.CALENDAR_MONTH
AND ALL TIME LKP.FISCAL PERIOD SID<>-1
where (1=1)
And (F0007.TYPE_OF_DAY='W'
(length(trim(F0007.COMPANY_CD)) = 5 or trim(F0007.COMPANY_CD) is null))
Group By NVL(BUSINESS_UNIT.BUSINESS_UNIT_SID,0),
F0007.CZMMCU,
 F0007.CZYR,
 F0007.CZMT
 F0007.TYPE_OF_DAY,
 ALL TIME LKP.FISCAL PERIOD SID.
NVL(F0007.COMPANY_CD, ' ')
( select 1 from BMRCRPNA6.F0007 T
  where T.BUSINESS_UNIT_SID = S.BUSINESS_UNIT_SID
  and T.CZMMCU = S.CZMMCU
   and T.YEAR = S.YEAR
   and T.MONTH = S.MONTH
   and T.COMPANY CD = S.COMPANY CD
      and ((T.DAY_OF_MONTH = S.DAY_OF_MONTH) or (T.DAY_OF_MONTH IS NULL and S.DAY_OF_MONTH IS NULL)) and
     ((T.TYPE OF DAY = S.TYPE OF DAY) or (T.TYPE OF DAY IS NULL and S.TYPE OF DAY IS NULL)) and
     ((T.FISCAL_PERIOD_SID = S.FISCAL_PERIOD_SID) or (T.FISCAL_PERIOD_SID IS NULL and S.FISCAL_PERIOD_SID IS NULL))
```

```
DETECTION STRATEGY = NOT EXISTS
          insert /*+ append */ into BMRODISTGNA.I$_F0007
           BUSINESS UNIT SID
           CZMMCU.
           YEAR,
           MONTH,
           DAY_OF_MONTH,
           TYPE OF DAY,
           FISCAL PERIOD SID
           COMPANY_CD,
11
           IND_UPDATE
14
         select
         BUSINESS UNIT SID,
15
           CZMMCU.
16
           YEAR,
           MONTH,
19
           DAY_OF_MONTH,
           TYPE OF DAY
21
           FISCAL PERIOD SID
22
           COMPANY_CD,
23
           IND_UPDATE
           NVL(BUSINESS UNIT.BUSINESS UNIT SID.0) BUSINESS UNIT SID.
           TMP_F0007_F00071_1.CZMMCU CZMMCU,
           TMP F0007 F00071 1.YEAR YEAR
           TMP F0007 F00071 1.MONTH MONTH
           TMP F0007 F00071 1.DAY OF MONTH DAY OF MONTH,
           TMP_F0007_F00071_1.TYPE_OF_DAY TYPE_OF_DAY,
           ALL TIME LKP.FISCAL PERIOD SID FISCAL PERIOD SID
           TMP_F0007_F00071_1.COMPANY_CD COMPANY_CD,
            T' IND. UPDATE
36
38
         SELECT
39
          COUNT(TMP_F0007_F00071.DAYS_OF_MONTH) AS DAY_OF_MONTH ,
          TMP F0007 F00071.CZMMCU AS CZMMCU .
          TMP_F0007_F00071.CZYR AS YEAR
41
42
          TMP_F0007_F00071.CZMT AS MONTH
          TMP_F0007_F00071.TYPE_OF_DAY AS TYPE_OF_DAY
          NVL(TMP_F0007_F00071.COMPANY_CD, ' ') AS COMPANY_CD
45
46
         BMRODISTGNA.TMP_F0007 TMP_F0007_F00071
47
48
          (TMP_F0007_F00071.TYPE_OF_DAY='W'
      (length(trim(TMP_F0007_F00071.COMPANY_CD)) = 5 or trim(TMP_F0007_F00071.COMPANY_CD) is null)
51
53
          TMP_F0007_F00071.CZMMCU, TMP_F0007_F00071.CZYR, TMP_F0007_F00071.CZMT, TMP_F0007_F00071.TYPE_OF_DAY, NVL(TMP_F0007_F00071.COMPANY_CD, '')
           ) TMP_F0007_F00071_1_LEFT_OUTER_JOIN_BMRCRPNAS.BUSINESS_UNIT_BUSINESS_UNIT
           ON TRIM(F00071.CZMMCU)=TRIM(BUSINESS_UNIT.BUSINESS_UNIT_CD)
56
            ) LEFT OUTER JOIN BMRCRPNAS, ALL TIME ALL TIME LKP
           ON F00071.CZYR=ALL TIME LKP.CALENDAR YEAR
58
         AND F00071.CZMT=ALL_TIME_LKP.CALENDAR_MONTH
         AND ALL_TIME_LKP.FISCAL_PERIOD_SID<>-1
         where (1=1)
63
65
66
68
69
 71
73
          ( select 1 from BMRCRPNA5.F0007 T
           where T.BUSINESS_UNIT_SID = S.BUSINESS_UNIT_SID
           and T.CZMMCU = S.CZMMCU
           and T.YEAR = S.YEAR
78
79
           and T.MONTH = S.MONTH
           and T.COMPANY_CD = S.COMPANY_CD
81
              and ((T.DAY_OF_MONTH = S.DAY_OF_MONTH) or (T.DAY_OF_MONTH IS NULL and S.DAY_OF_MONTH IS NULL)) and
              ((T.TYPE OF DAY = S.TYPE OF DAY) or (T.TYPE OF DAY IS NULL and S.TYPE OF DAY IS NULL)) and
82
83
              ((T.FISCAL_PERIOD_SID = S.FISCAL_PERIOD_SID) or (T.FISCAL_PERIOD_SID IS NULL and S.FISCAL_PERIOD_SID IS NULL))
84
85
```

reusable mapping issue

Comparison of ODI 12c Failed and ODI 12c Fixed Code

```
/ * DETECTION_STRATEGY = NOT_EXISTS */
                                                                                                                                                                              * DETECTION_STRATEGY = NOT_EXISTS *
insert /*+ append */ into BMRODISTGNA.I$_F0007
                                                                                                                                                                              insert /*+ append */ into BMRODISTGNA.I$_F0007
  BUSINESS UNIT SID
                                                                                                                                                                                BUSINESS_UNIT_SID,
  CZMMCU.
                                                                                                                                                                                CZMMCU,
                                                                                                                                                                                YEAR.
  DAY_OF_MONTH.
                                                                                                                                                                                DAY OF MONTH,
  TYPE OF DAY.
                                                                                                                                                                                TYPE OF DAY.
  FISCAL PERIOD SID
                                                                                                                                                                                FISCAL PERIOD SID.
  COMPANY CD.
                                                                                                                                                                                COMPANY_CD,
  IND_UPDATE
                                                                                                                                                                                IND_UPDATE
                                                                                                                                                                     13
select
                                                                                                                                                                     14
BUSINESS_UNIT_SID,
                                                                                                                                                                              BUSINESS_UNIT_SID,
                                                                                                                                                                     15
  CZMMCU,
                                                                                                                                                                     16
                                                                                                                                                                                CZMMCU.
  MONTH.
                                                                                                                                                                                MONTH,
  DAY OF MONTH
                                                                                                                                                                                DAY OF MONTH
  TYPE OF DAY.
                                                                                                                                                                                TYPE OF DAY.
  FISCAL PERIOD SID
                                                                                                                                                                                FISCAL PERIOD SID
  COMPANY_CD,
                                                                                                                                                                     22
                                                                                                                                                                                COMPANY_CD,
  IND_UPDATE
                                                                                                                                                                                IND_UPDATE
                                                                                                                                                                     23
from (
                                                                                                                                                                              from (
select
                                                                                                                                                                     25
  NVL(BUSINESS_UNIT.BUSINESS_UNIT_SID,0) BUSINESS_UNIT_SID,
                                                                                                                                                                                NVL(BUSINESS_UNIT.BUSINESS_UNIT_SID,0) BUSINESS_UNIT_SID,
  TMP_F0007_F00071_1.CZMMCU CZMMCU,
                                                                                                                                                                     27
                                                                                                                                                                                TMP_F0007_F00071_1.CZMMCU CZMMCU,
  TMP F0007 F00071 1.YEAR YEAR,
                                                                                                                                                                                TMP F0007 F00071 1.YEAR YEAR,
  TMP_F0007_F00071_1.MONTH MONTH,
                                                                                                                                                                                TMP_F0007_F00071_1.MONTH MONTH,
  TMP F0007 F00071 1.DAY OF MONTH DAY OF MONTH,
                                                                                                                                                                     30
                                                                                                                                                                                TMP F0007 F00071 1.DAY OF MONTH DAY OF MONTH,
  TMP F0007 F00071 1.TYPE OF DAY TYPE OF DAY,
                                                                                                                                                                                TMP F0007 F00071 1.TYPE OF DAY TYPE OF DAY,
  ALL TIME LKP.FISCAL PERIOD SID FISCAL PERIOD SID,
                                                                                                                                                                                ALL_TIME_LKP.FISCAL_PERIOD_SID FISCAL_PERIOD_SID,
  TMP_F0007_F00071_1.COMPANY_CD COMPANY_CD,
                                                                                                                                                                                TMP_F0007_F00071_1.COMPANY_CD COMPANY_CD,
  T IND_UPDATE
                                                                                                                                                                                T IND UPDATE
                                                                                                                                                                     35
                                                                                                                                                                              from ((
SELECT
 COUNT(TMP_F0007_F00071.DAYS_OF_MONTH) AS DAY_OF_MONTH;
                                                                                                                                                                               COUNT(TMP_F0007_F00071.DAYS_OF_MONTH) AS DAY_OF_MONTH,
 TMP_F0007_F00071.CZMMCU AS CZMMCU ,
                                                                                                                                                                               TMP_F0007_F00071.CZMMCU AS CZMMCU ,
                                                                                                                                                                               TMP F0007 F00071.CZYR AS YEAR
 TMP F0007 F00071.CZYR AS YEAR
 TMP_F0007_F00071.CZMT AS MONTH
                                                                                                                                                                               TMP_F0007_F00071.CZMT AS MONTH
 TMP F0007 F00071. TYPE OF DAY AS TYPE OF DAY
                                                                                                                                                                               TMP F0007 F00071. TYPE OF DAY AS TYPE OF DAY .
 NVL(TMP_F0007_F00071.COMPANY_CD, ' ') AS COMPANY_CD
                                                                                                                                                                               NVL(TMP_F0007_F00071.COMPANY_CD, ' ') AS COMPANY_CD
 BMRODISTGNA.TMP F0007 TMP F0007 F00071
                                                                                                                                                                               BMRODISTGNA.TMP_F0007 TMP_F0007_F00071
 (TMP_F0007_F00071.TYPE_OF_DAY="W"
                                                                                                                                                                               (TMP_F0007_F00071.TYPE_OF_DAY='W'
                                                                                                                                                                              (length(trim(TMP_F0007_F00071.COMPANY_CD)) = 5 or trim(TMP_F0007_F00071.COMPANY_CD) is null)
(length(trim(TMP_F0007_F00071.COMPANY_CD)) = 5 or trim(TMP_F0007_F00071.COMPANY_CD) is null)
 TMP_F0007_F00071.CZMMCU, TMP_F0007_F00071.CZYR, TMP_F0007_F00071.CZMT, TMP_F0007_F00071.TYPE_OF_DAY, NVL(TMP_F0007_F00071.COMPANY_CD, '')
                                                                                                                                                                               TMP_F0007_F00071.CZMMCU, TMP_F0007_F00071.CZYR, TMP_F0007_F00071.CZMT, TMP_F0007_F00071.TYPE_OF_DAY, NVL(TMP_F0007_F00071.COMPANY_CD, '')
 ) TMP F0007 F00071 1 LEFT OUTER JOIN BMRCRPNAS.BUSINESS UNIT BUSINESS UNIT
                                                                                                                                                                               ) TMP F0007 F00071 1 LEFT OUTER JOIN BMRCRPNA5.BUSINESS UNIT BUSINESS UNIT
                                                                                                                                                                               ON TRIM(TMP_F0007_F00071_1.CZMMCU)=TRIM(BUSINESS_UNIT.BUSINESS_UNIT_CD)
 ON TRIM(F00071.CZMMCU)=TRIM(BUSINESS_UNIT.BUSINESS_UNIT_CD)
  ) LEFT OUTER JOIN BMRCRPNAS.ALL_TIME ALL_TIME_LKP
                                                                                                                                                                                 ) LEFT OUTER JOIN BMRCRPNA5.ALL_TIME_ALL_TIME_LKP
  ON F00071.CZYR=ALL_TIME_LKP.CALENDAR_YEAR
                                                                                                                                                                                ON TMP_F0007_F00071_1.YEAR=ALL_TIME_LKP.CALENDAR_YEAR
AND F00071.CZMT=ALL TIME LKP.CALENDAR MONTH
                                                                                                                                                                              AND TMP F0007 F00071 1.MONTH=ALL TIME LKP.CALENDAR MONTH
AND ALL TIME LKP.FISCAL PERIOD SID<>-1
                                                                                                                                                                              AND ALL TIME LKP.FISCAL PERIOD SID<>-1
where (1=1)
where NOT EXISTS
                                                                                                                                                                              where NOT EXISTS
 ( select 1 from BMRCRPNA5.F0007 T
                                                                                                                                                                                ( select 1 from BMRCRPNA5.F0007 T
  where T.BUSINESS UNIT SID = S.BUSINESS UNIT SID
                                                                                                                                                                                where T.BUSINESS UNIT SID = S.BUSINESS UNIT SID
                                                                                                                                                                                and T.CZMMCU = S.CZMMCU
  and T.CZMMCU = S.CZMMCU
  and T.YEAR = S.YEAR
                                                                                                                                                                                and T.YEAR = S.YEAR
                                                                                                                                                                     64
  and T.MONTH = S.MONTH
                                                                                                                                                                                and T.MONTH = S.MONTH
  and T.COMPANY_CD = S.COMPANY_CD
                                                                                                                                                                                and T.COMPANY_CD = S.COMPANY_CD
     and ((T.DAY OF MONTH = S.DAY OF MONTH) or (T.DAY OF MONTH IS NULL and S.DAY OF MONTH IS NULL)) and
                                                                                                                                                                                   and ((T.DAY OF MONTH = S.DAY OF MONTH) or (T.DAY OF MONTH IS NULL and S.DAY OF MONTH IS NULL)) and
     ((T.TYPE OF DAY = S.TYPE OF DAY) or (T.TYPE OF DAY IS NULL and S.TYPE OF DAY IS NULL)) and
                                                                                                                                                                                   ((T.TYPE OF DAY = S.TYPE OF DAY) or (T.TYPE OF DAY IS NULL and S.TYPE OF DAY IS NULL)) and
     ((T.FISCAL_PERIOD_SID = S.FISCAL_PERIOD_SID) or (T.FISCAL_PERIOD_SID IS NULL and S.FISCAL_PERIOD_SID IS NULL))
                                                                                                                                                                     69
                                                                                                                                                                                   ((T.FISCAL PERIOD_SID = S.FISCAL PERIOD_SID) or (T.FISCAL PERIOD_SID IS NULL and S.FISCAL PERIOD_SID IS NULL))
                                                                                                                                                                     70
```

Variable Calling issue

PKG_MATERIAL : ODI12c Failed vs Fixed Code

120

121

122

123

124

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130

131

132

133

AS MATERIAL CAT4 CD,

AS MATERIAL_CAT6_CD,

AS MATERIAL CATS CD,

nvl(trim(#F4101.MTRL_CATEGORY1_CD), '#PRAXAIR_BI.U_DEFAULT_SHORT_CHAR') AS MATERIAL_CAT1_CD,

nvl(trim(#F4101.MTRL_CATEGORY2_CD), '#PRAXAIR_BI.U_DEFAULT_SHORT_CHAR') AS MATERIAL_CAT2_CD,

nvl(trim(#F4101.MTRL_CATEGORY3_CD), '#PRAXAIR_BI.U_DEFAULT_SHORT_CHAR') AS MATERIAL_CAT3_CD,

nvl(trim(#F4101.MTRL_CATEGORY5_CD),'#PRAXAIR_BI.U_DEFAULT_SHORT_CHAR') AS MATERIAL_CAT5_CD,

nvl(trim(#F4101.MTRL_CATEGORY7_CD), '#PRAXAIR_BI.U_DEFAULT_SHORT_CHAR') AS MATERIAL_CAT7_CD,

nvl(trim(#F4101.MTRL_CATEGORY9_CD), '#PRAXAIR_BI.U_DEFAULT_SHORT_CHAR') AS MATERIAL_CAT9_CD,

nvl(trim(#F4101.MTRL_CATEGORY10_CD), '#PRAXAIR_BI.U_DEFAULT_SHORT_CHAR') AS MATERIAL_CAT10_CD

nvl(trim(#F4101.MTRL CATEGORY11 CD), '#PRAXAIR BI.U DEFAULT SHORT CHAR') AS MATERIAL CAT11 CD,

nvl(trim(#F4101.MTRL_CATEGORY12_CD),'#PRAXAIR_BI.U_DEFAULT_SHORT_CHAR') AS MATERIAL_CAT12_CD,

nvl(trim(#F4101.MTRL_CATEGORY13_CD), '#PRAXAIR_BI.U_DEFAULT_SHORT_CHAR') AS MATERIAL_CAT13_CD,

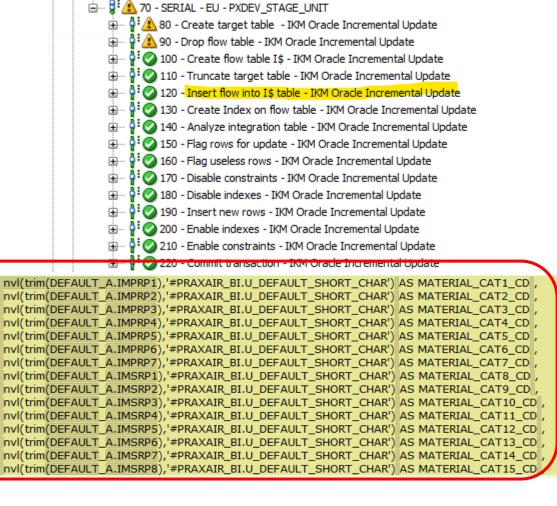
nvl(trim(#F4101.MTRL_CATEGORY14_CD),'#PRAXAIR_BI.U_DEFAULT_SHORT_CHAR') AS MATERIAL_CAT14_CD,

nvl(trim(#F4101.MTRL_CATEGORY15_CD),'#PRAXAIR_BI.U_DEFAULT_SHORT_CHAR') AS MATERIAL_CAT15_CD,

nvl(trim(#F4101.MTRL_CATEGORY4_CD),'#PRAXAIR_BI.U_DEFAULT_SHORT_CHAR')

nvl(trim(#F4101.MTRL_CATEGORY6_CD), '#PRAXAIR_BI.U_DEFAULT_SHORT_CHAR')

nvl(trim(#F4101.MTRL_CATEGORY8_CD),'#PRAXAIR_BI.U_DEFAULT_SHORT_CHAR')



69 - INT_TMP_MATERIAL - Dec 29, 2021 4:39:24 AM

- 🖁 🔼 20 - SERIAL - EU - PXDEV_SOURCE_UNIT

im 10 - SERIAL - MAP_MAIN

Thank you Q & A