/\*

select

    SQ\_SALES\_DEMAND\_FS.ORDER\_TYPE      C1\_DEMAND\_TYPE,

    SQ\_SALES\_DEMAND\_FS.DEMAND\_CLASS    C2\_DEMAND\_CLASS,

    SQ\_SALES\_DEMAND\_FS.QUANTITY    C3\_DEMAND\_QTY,

    SQ\_SALES\_DEMAND\_FS.W\_UPDATE\_DT     C4\_W\_UPDATE\_DT,

    SQ\_SALES\_DEMAND\_FS.DUE\_DATE    C5\_DUE\_DATE,

    SQ\_SALES\_DEMAND\_FS.SALES\_ORDER\_NUMBER      C6\_SALES\_ORDER\_NUMBER,

    SQ\_SALES\_DEMAND\_FS.COMPILE\_DESIGNATOR      C7\_PLAN\_NAME,

    SQ\_SALES\_DEMAND\_FS.DEMAND\_FLAG     C8\_DEMAND\_FLAG,

    SQ\_SALES\_DEMAND\_FS.WEEKLY\_FLAG     C9\_WEEKLY\_FLAG,

    SQ\_SALES\_DEMAND\_FS.DAILY\_CUTOFF\_BUCKET     C10\_DAILY\_CUTOFF\_BUCKET,

    SQ\_SALES\_DEMAND\_FS.CUSTOMER\_ID     C11\_CUSTOMER\_ID,

    SQ\_SALES\_DEMAND\_FS.ORGANIZATION\_ID     C12\_ORGANIZATION\_ID,

    SQ\_SALES\_DEMAND\_FS.INVENTORY\_ITEM\_ID       C13\_INVENTORY\_ITEM\_ID

from

 (

      SELECT msc\_system.SR\_INVENTORY\_ITEM\_ID INVENTORY\_ITEM\_ID,

      msc\_demand.CUSTOMER\_ID CUSTOMER\_ID,

    TRUNC(msc\_demand.USING\_ASSEMBLY\_DEMAND\_DATE,'MM') DUE\_DATE,

      NVL(msc\_demand.DEMAND\_CLASS,'NA') DEMAND\_CLASS,

      SUM(NVL(msc\_demand.DAILY\_DEMAND\_RATE,msc\_demand.USING\_REQUIREMENT\_QUANTITY)) QUANTITY,

 TRUNC(msc\_demand.LAST\_UPDATE\_DATE,'MM') W\_UPDATE\_DT,

      msc\_demand.ORGANIZATION\_ID ORGANIZATION\_ID,

      mfg\_look.MEANING ORDER\_TYPE,

      TO\_CHAR(SUBSTR(msc\_demand.ORDER\_NUMBER,1,regexp\_instr(msc\_demand.ORDER\_NUMBER,'.',1)-1)) SALES\_ORDER\_NUMBER,

      msc\_plan.COMPILE\_DESIGNATOR COMPILE\_DESIGNATOR,

      CASE

        WHEN ((NVL(case when msc\_demand.organization\_id = 1200 and msc\_demand.source\_organization\_id = 1202 then null else msc\_demand.source\_organization\_id end,0) > 0

        AND msc\_demand.source\_organization\_id           <> msc\_demand.organization\_id)

        OR msc\_demand.inventory\_item\_id                 <> msc\_demand.using\_assembly\_item\_id)

        THEN 'N'

        ELSE 'Y'

      END demand\_flag , -- added to exlcude component item demand used for make items, and do not apply org dependent logic for dop items in dtx

      CASE

        WHEN mfg\_look.MEANING         ='Forecast'

        AND msc\_demand.ORGANIZATION\_ID IN

          (SELECT sr\_organization\_id

          FROM msc\_dp\_scn

          WHERE start\_time >=(current\_date()-365)

          AND BUCKET\_TYPE   =2

          )

        THEN 'Y'

        ELSE 'N'

      END WEEKLY\_FLAG ,

      msc\_plan.DAILY\_CUTOFF\_BUCKET

    FROM msc\_demand,

      msc\_plan,

      msc\_system,

      mfg\_look,

      mpo

    WHERE(1                                     =1)

    AND mpo.plan\_id                             = msc\_demand.plan\_id

    AND mpo.organization\_id                     = msc\_demand.organization\_id

    AND mpo.sr\_instance\_id                      = msc\_demand.sr\_instance\_id

    AND (mfg\_look.LOOKUP\_TYPE                ='MSC\_DEMAND\_ORIGINATION')

    AND (msc\_demand.USING\_REQUIREMENT\_QUANTITY >0)

    AND (mfg\_look.MEANING                   IN('Forecast','Payback Demand','Planned order demand','Interorganization Demand','Sales Orders','Work order demand','Safety Stock Demand'))

    AND (msc\_plan.PLAN\_ID                      =msc\_demand.PLAN\_ID)

    AND (msc\_plan.COMPILE\_DESIGNATOR          IN

      (SELECT DESIGNATOR FROM msc\_designators WHERE DISABLE\_DATE IS NULL

      ))

    AND (msc\_system.PLAN\_ID       =msc\_plan.PLAN\_ID)

    AND (msc\_system.SR\_INSTANCE\_ID=msc\_demand.SR\_INSTANCE\_ID

    AND msc\_demand.INVENTORY\_ITEM\_ID   =msc\_system.INVENTORY\_ITEM\_ID

    AND msc\_system.ORGANIZATION\_ID=msc\_demand.ORGANIZATION\_ID

    AND msc\_system.PLAN\_ID        =msc\_demand.PLAN\_ID)

    AND (msc\_demand.ORIGINATION\_TYPE   =mfg\_look.LOOKUP\_CODE)

    GROUP BY msc\_system.SR\_INVENTORY\_ITEM\_ID,

      msc\_demand.CUSTOMER\_ID,

     TRUNC(msc\_demand.USING\_ASSEMBLY\_DEMAND\_DATE,'MM'),

      NVL(msc\_demand.DEMAND\_CLASS,'NA'),

      TRUNC(msc\_demand.LAST\_UPDATE\_DATE,'MM'),

      msc\_demand.ORGANIZATION\_ID,

      mfg\_look.MEANING,

      SUBSTR(msc\_demand.ORDER\_NUMBER,1,regexp\_instr(msc\_demand.ORDER\_NUMBER,'.',1)-1),

      msc\_plan.COMPILE\_DESIGNATOR,

      CASE

        WHEN ((NVL(case when msc\_demand.organization\_id = 1200 and msc\_demand.source\_organization\_id = 1202 then null else msc\_demand.source\_organization\_id end,0) > 0

        AND msc\_demand.source\_organization\_id           <> msc\_demand.organization\_id)

        OR msc\_demand.inventory\_item\_id                 <> msc\_demand.using\_assembly\_item\_id)

        THEN 'N'

        ELSE 'Y'

      END,

      msc\_plan.DAILY\_CUTOFF\_BUCKET,

   \*/

-- second UNION ALL

    sub\_2 as (

        (

            select

                mtl\_system.inventory\_item\_id inventory\_item\_id,

                oe\_order\_lines.customer\_account\_id customer\_id,

                trunc(oe\_order\_lines.request\_date, 'MM') due\_date,

                nvl(oe\_order\_lines.demand\_class\_code, 'NA') demand\_class,

                sum(

                    oe\_order\_lines.ordered\_quantity

                    \* nvl(mtl\_uom\_conv.conversion\_rate, 1)

                ) quantity,

                trunc(oe\_order\_lines.last\_update\_date, 'MM') w\_update\_dt,

                mtl\_system.organization\_id organization\_id,

                'Unschedule' order\_type,

                to\_char(oe\_order\_headers.order\_number) sales\_order\_number,

                'NA' compile\_designator,

                'Y' as demand\_flag,

                'N' as weekly\_flag,

                 nvl(inventory\_item\_id||'~'||customer\_id||'~'||organization\_id) integration\_id,

                 oe\_order\_lines.\_source\_id datasource\_num\_id,

                 'N' Delete\_flag,

                0

            from mtl\_uom\_conv

            right outer join

                (

                    (

                        (

                            oe\_order\_lines

                            inner join

                                mtl\_system

                                on oe\_order\_lines.inventory\_item\_id

                                = mtl\_system.inventory\_item\_id

                                and oe\_order\_lines.ship\_from\_org\_id

                                = mtl\_system.organization\_id

                        )

                        inner join

                            oe\_order\_headers

                            on oe\_order\_lines.order\_header\_id

                            = oe\_order\_headers.order\_header\_id

                    )

                    inner join

                        mtl\_param

                        on oe\_order\_lines.ship\_from\_org\_id = mtl\_param.organization\_id

                )

                on mtl\_uom\_conv.inventory\_item\_id = oe\_order\_lines.inventory\_item\_id

                and mtl\_uom\_conv.uom\_code = oe\_order\_lines.order\_quantity\_uom

            where

                (1 = 1)

                and (

                    oe\_order\_lines.flow\_status\_code in ('BOOKED', 'ENTERED')

                    and oe\_order\_lines.open\_flag = 'Y'

                    and oe\_order\_lines.line\_category\_code = 'ORDER'

                )

                {% if is\_incremental() %}

                and (

                    (

                        oe\_order\_lines.\_batch\_update\_date >= $batch\_start\_time

                        and oe\_order\_lines.\_batch\_update\_date <= $batch\_end\_time

                    )

                    or (

                        oe\_order\_headers.\_batch\_update\_date >= $batch\_start\_time

                        and oe\_order\_headers.\_batch\_update\_date <= $batch\_end\_time

                    )

                    or (

                        mtl\_param.\_batch\_update\_date >= $batch\_start\_time

                        and mtl\_param.\_batch\_update\_date <= $batch\_end\_time

                    )

                    or (

                        mtl\_uom\_conv.\_batch\_update\_date >= $batch\_start\_time

                        and mtl\_uom\_conv.\_batch\_update\_date <= $batch\_end\_time

                    )

                    or (

                        mtl\_system.\_batch\_update\_date >= $batch\_start\_time

                        and mtl\_system.\_batch\_update\_date <= $batch\_end\_time

                    )

                )

                {% endif %}

            group by

                mtl\_system.inventory\_item\_id,

                oe\_order\_lines.customer\_account\_id,

                trunc(oe\_order\_lines.request\_date, 'MM'),

                nvl(oe\_order\_lines.demand\_class\_code, 'NA'),

                trunc(oe\_order\_lines.last\_update\_date, 'MM'),

                mtl\_system.organization\_id,

                to\_char(oe\_order\_headers.order\_number)

        )

    ),

    -- third UNION ALL

    sub\_3 as (

        (

            select

                msc\_system.sr\_inventory\_item\_id inventory\_item\_id,

                msc\_sales\_ord.customer\_id customer\_id,

                -- TRUNC(msc\_sales\_ord.REQUIREMENT\_DATE,'MM')         C30\_DUE\_DATE,

                trunc(oe\_order\_lines.actual\_shipment\_date, 'MM') due\_date,

                nvl(msc\_sales\_ord.demand\_class, 'NA') demand\_class,

                sum(msc\_sales\_ord.completed\_quantity) quantity,

                trunc(msc\_sales\_ord.last\_update\_date, 'MM') w\_update\_dt,

                msc\_sales\_ord.organization\_id organization\_id,

                'Shipped'order\_type,

                to\_char(

                    substr(

                        msc\_sales\_ord.sales\_order\_number,

                        1,

                        regexp\_instr(msc\_sales\_ord.sales\_order\_number, '.', 1) - 1

                    )

                ) sales\_order\_number,

                msc\_plan.compile\_designator compile\_designator,

                'Y' as demand\_flag,

                'N' as weekly\_flag,

                msc\_plan.daily\_cutoff\_bucket,

                 nvl(inventory\_item\_id||'~'||customer\_id||'~'||organization\_id) integration\_id,

                 msc\_system.\_source\_id datasource\_num\_id,

                 'N' Delete\_flag,

            from msc\_system, msc\_sales\_ord, msc\_plan, oe\_order\_lines

            where

                (1 = 1)

                and (

                    msc\_sales\_ord.demand\_id in (

                        select distinct sales\_order\_id

                        from msc\_fore\_upd m, msc\_system i

                        where

                            m.inventory\_item\_id = i.inventory\_item\_id

                            and m.organization\_id = i.organization\_id

                            and m.plan\_id = i.plan\_id

                    )

                )

                and msc\_sales\_ord.demand\_source\_line = oe\_order\_lines.order\_line\_id

                and (msc\_sales\_ord.completed\_quantity > 0)

                and (

                    msc\_system.inventory\_item\_id = msc\_sales\_ord.inventory\_item\_id

                    and msc\_system.organization\_id = msc\_sales\_ord.organization\_id

                )

                and (msc\_plan.plan\_id = msc\_system.plan\_id and msc\_system.plan\_id <> -1)

                and (

                    msc\_plan.compile\_designator in (

                        select designator

                        from msc\_designators

                        where disable\_date is null

                    )

                )

                     {% if is\_incremental() %}

                and (

                    (

                        msc\_sales\_ord.\_batch\_update\_date >= $batch\_start\_time

                        and msc\_sales\_ord.\_batch\_update\_date <= $batch\_end\_time

                    )

                )

                {% endif %}

            group by

                msc\_system.sr\_inventory\_item\_id,

                msc\_sales\_ord.customer\_id,

                trunc(oe\_order\_lines.actual\_shipment\_date, 'MM'),

                trunc(msc\_sales\_ord.requirement\_date, 'MM'),

                nvl(msc\_sales\_ord.demand\_class, 'NA'),

                trunc(msc\_sales\_ord.last\_update\_date, 'MM'),

                msc\_sales\_ord.organization\_id,

                substr(

                    msc\_sales\_ord.sales\_order\_number,

                    1,

                    regexp\_instr(msc\_sales\_ord.sales\_order\_number, '.', 1) - 1

                ),

                msc\_plan.compile\_designator,

                msc\_plan.daily\_cutoff\_bucket

        )

    ),

    -- 4TH  UNION ALL

    sub\_4 as (

        (

            select

                msi.sr\_inventory\_item\_id inventory\_item\_id,

                null customer\_id,

                mss.period\_start\_date due\_date,

                'NA' demand\_class,

                mss.safety\_stock\_quantity quantity,

                current\_timestamp() w\_update\_dt,

                mss.organization\_id organization\_id,

                'Safety Stock' order\_type,

                null sales\_order\_number,

                msc.compile\_designator compile\_designator,

                'N' demand\_flag,

                'N' weekly\_flag,

                msc.daily\_cutoff\_bucket,

                 nvl(inventory\_item\_id||'~'||customer\_id||'~'||organization\_id) integration\_id,

                 msc\_safety\_stocks.\_source\_id datasource\_num\_id,

                 'N' Delete\_flag,

            from msc\_safety\_stocks mss, msc\_system msi, msc\_plan msc

            where

                mss.sr\_instance\_id = msi.sr\_instance\_id

                and mss.inventory\_item\_id = msi.inventory\_item\_id

                and mss.organization\_id = msi.organization\_id

                and mss.plan\_id = msi.plan\_id

                and msi.plan\_id = msc.plan\_id

                and (

                    msc.compile\_designator in (

                        select designator

                        from msc\_designators

                        where disable\_date is null

                    )

                )

                   {% if is\_incremental() %}

                and (

                    (

                        msc\_safety\_stocks.\_batch\_update\_date >= $batch\_start\_time

                        and msc\_safety\_stocks.\_batch\_update\_date <= $batch\_end\_time

                    )

                )

                {% endif %}

        )

    ),

    -- 5th UNION ALL

    sub\_5 as (

        (

            select

                ola.inventory\_item\_id c28\_inventory\_item\_id,

                ola.customer\_account\_id c29\_customer\_id,

                (

                    coalesce(

                        ola.latest\_acceptable\_date, ola.schedule\_ship\_date, '1900-01-01'

                    )

                ) c30\_due\_date,

                nvl(ola.demand\_class\_code, 'NA') c31\_demand\_class,

                sum(ola.ordered\_quantity \* nvl(muc.conversion\_rate, 1)) c32\_quantity,  -- UOM Conversion required

                trunc(ola.last\_update\_date, 'MM') c33\_w\_update\_dt,

                ola.ship\_from\_org\_id c34\_organization\_id,

                'Sales Orders - LAD' c8\_order\_type,

                to\_char(oha.order\_number) c35\_sales\_order\_number,

                'GLOBAL' c19\_compile\_designator,

                'Y' as demand\_flag,

                'N' as weekly\_flag,

                0 daily\_cutoff\_bucket,

                 nvl(inventory\_item\_id||'~'||customer\_id||'~'||organization\_id) integration\_id,

                 oe\_order\_lines.\_source\_id datasource\_num\_id,

                 'N' Delete\_flag,

            from oe\_order\_lines ola, oe\_order\_headers oha, mtl\_uom\_conv muc

            where

                (1 = 1)

                and ola.order\_header\_id = oha.order\_header\_id

                and ola.open\_flag = 'Y'

                and oha.open\_flag = 'Y'

                and ola.order\_source\_id <> 10

                and ola.line\_category\_code = 'ORDER'

                and muc.inventory\_item\_id(+) = ola.inventory\_item\_id

                and muc.uom\_code(+) = ola.order\_quantity\_uom

            group by

                ola.inventory\_item\_id,

                ola.customer\_account\_id,

                (

                    coalesce(

                        ola.latest\_acceptable\_date, ola.schedule\_ship\_date, '1900-01-01'

                    )

                ),

                nvl(ola.demand\_class\_code, 'NA'),

                trunc(ola.last\_update\_date, 'MM'),

                ola.ship\_from\_org\_id,

                oha.order\_number

        )

    ),

6.4.23 (snowflake code with integration\_id with 4 union all)

/\*

select

SQ\_SALES\_DEMAND\_FS.ORDER\_TYPE C1\_DEMAND\_TYPE,

SQ\_SALES\_DEMAND\_FS.DEMAND\_CLASS C2\_DEMAND\_CLASS,

SQ\_SALES\_DEMAND\_FS.QUANTITY C3\_DEMAND\_QTY,

SQ\_SALES\_DEMAND\_FS.W\_UPDATE\_DT C4\_W\_UPDATE\_DT,

SQ\_SALES\_DEMAND\_FS.DUE\_DATE C5\_DUE\_DATE,

SQ\_SALES\_DEMAND\_FS.SALES\_ORDER\_NUMBER C6\_SALES\_ORDER\_NUMBER,

SQ\_SALES\_DEMAND\_FS.COMPILE\_DESIGNATOR C7\_PLAN\_NAME,

SQ\_SALES\_DEMAND\_FS.DEMAND\_FLAG C8\_DEMAND\_FLAG,

SQ\_SALES\_DEMAND\_FS.WEEKLY\_FLAG C9\_WEEKLY\_FLAG,

SQ\_SALES\_DEMAND\_FS.DAILY\_CUTOFF\_BUCKET C10\_DAILY\_CUTOFF\_BUCKET,

SQ\_SALES\_DEMAND\_FS.CUSTOMER\_ID C11\_CUSTOMER\_ID,

SQ\_SALES\_DEMAND\_FS.ORGANIZATION\_ID C12\_ORGANIZATION\_ID,

SQ\_SALES\_DEMAND\_FS.INVENTORY\_ITEM\_ID C13\_INVENTORY\_ITEM\_ID

from

(

SELECT msc\_system.SR\_INVENTORY\_ITEM\_ID INVENTORY\_ITEM\_ID,

msc\_demand.CUSTOMER\_ID CUSTOMER\_ID,

TRUNC(msc\_demand.USING\_ASSEMBLY\_DEMAND\_DATE,'MM') DUE\_DATE,

NVL(msc\_demand.DEMAND\_CLASS,'NA') DEMAND\_CLASS,

SUM(NVL(msc\_demand.DAILY\_DEMAND\_RATE,msc\_demand.USING\_REQUIREMENT\_QUANTITY)) QUANTITY,

TRUNC(msc\_demand.LAST\_UPDATE\_DATE,'MM') W\_UPDATE\_DT,

msc\_demand.ORGANIZATION\_ID ORGANIZATION\_ID,

mfg\_look.MEANING ORDER\_TYPE,

TO\_CHAR(SUBSTR(msc\_demand.ORDER\_NUMBER,1,regexp\_instr(msc\_demand.ORDER\_NUMBER,'.',1)-1)) SALES\_ORDER\_NUMBER,

msc\_plan.COMPILE\_DESIGNATOR COMPILE\_DESIGNATOR,

CASE

WHEN ((NVL(case when msc\_demand.organization\_id = 1200 and msc\_demand.source\_organization\_id = 1202 then null else msc\_demand.source\_organization\_id end,0) > 0

AND msc\_demand.source\_organization\_id <> msc\_demand.organization\_id)

OR msc\_demand.inventory\_item\_id <> msc\_demand.using\_assembly\_item\_id)

THEN 'N'

ELSE 'Y'

END demand\_flag , -- added to exlcude component item demand used for make items, and do not apply org dependent logic for dop items in dtx

CASE

WHEN mfg\_look.MEANING ='Forecast'

AND msc\_demand.ORGANIZATION\_ID IN

(SELECT sr\_organization\_id

FROM msc\_dp\_scn

WHERE start\_time >=(current\_date()-365)

AND BUCKET\_TYPE =2

)

THEN 'Y'

ELSE 'N'

END WEEKLY\_FLAG ,

msc\_plan.DAILY\_CUTOFF\_BUCKET

FROM msc\_demand,

msc\_plan,

msc\_system,

mfg\_look,

mpo

WHERE(1 =1)

AND mpo.plan\_id = msc\_demand.plan\_id

AND mpo.organization\_id = msc\_demand.organization\_id

AND mpo.sr\_instance\_id = msc\_demand.sr\_instance\_id

AND (mfg\_look.LOOKUP\_TYPE ='MSC\_DEMAND\_ORIGINATION')

AND (msc\_demand.USING\_REQUIREMENT\_QUANTITY >0)

AND (mfg\_look.MEANING IN('Forecast','Payback Demand','Planned order demand','Interorganization Demand','Sales Orders','Work order demand','Safety Stock Demand'))

AND (msc\_plan.PLAN\_ID =msc\_demand.PLAN\_ID)

AND (msc\_plan.COMPILE\_DESIGNATOR IN

(SELECT DESIGNATOR FROM msc\_designators WHERE DISABLE\_DATE IS NULL

))

AND (msc\_system.PLAN\_ID =msc\_plan.PLAN\_ID)

AND (msc\_system.SR\_INSTANCE\_ID=msc\_demand.SR\_INSTANCE\_ID

AND msc\_demand.INVENTORY\_ITEM\_ID =msc\_system.INVENTORY\_ITEM\_ID

AND msc\_system.ORGANIZATION\_ID=msc\_demand.ORGANIZATION\_ID

AND msc\_system.PLAN\_ID =msc\_demand.PLAN\_ID)

AND (msc\_demand.ORIGINATION\_TYPE =mfg\_look.LOOKUP\_CODE)

GROUP BY msc\_system.SR\_INVENTORY\_ITEM\_ID,

msc\_demand.CUSTOMER\_ID,

TRUNC(msc\_demand.USING\_ASSEMBLY\_DEMAND\_DATE,'MM'),

NVL(msc\_demand.DEMAND\_CLASS,'NA'),

TRUNC(msc\_demand.LAST\_UPDATE\_DATE,'MM'),

msc\_demand.ORGANIZATION\_ID,

mfg\_look.MEANING,

SUBSTR(msc\_demand.ORDER\_NUMBER,1,regexp\_instr(msc\_demand.ORDER\_NUMBER,'.',1)-1),

msc\_plan.COMPILE\_DESIGNATOR,

CASE

WHEN ((NVL(case when msc\_demand.organization\_id = 1200 and msc\_demand.source\_organization\_id = 1202 then null else msc\_demand.source\_organization\_id end,0) > 0

AND msc\_demand.source\_organization\_id <> msc\_demand.organization\_id)

OR msc\_demand.inventory\_item\_id <> msc\_demand.using\_assembly\_item\_id)

THEN 'N'

ELSE 'Y'

END,

msc\_plan.DAILY\_CUTOFF\_BUCKET,

\*/

-- first union all

-- second UNION ALL

sub\_2 as (

(

select

mtl\_system.inventory\_item\_id c20\_inventory\_item\_id,

oe\_order\_lines.customer\_account\_id c21\_customer\_id,

trunc(oe\_order\_lines.request\_date, 'MM') c22\_due\_date,

nvl(oe\_order\_lines.demand\_class\_code, 'NA') c23\_demand\_class,

sum(

oe\_order\_lines.ordered\_quantity

\* nvl(mtl\_uom\_conv.conversion\_rate, 1)

) c24\_quantity,

trunc(oe\_order\_lines.last\_update\_date, 'MM') c25\_w\_update\_dt,

mtl\_system.organization\_id c26\_organization\_id,

'Unschedule' c8\_order\_type,

to\_char(oe\_order\_headers.order\_number) c27\_sales\_order\_number,

'NA' c19\_compile\_designator,

'Y' as demand\_flag,

'N' as weekly\_flag,

NVL(mtl\_system.inventory\_item\_id|| '~' || oe\_order\_lines.customer\_account\_id ||'~'||mtl\_system.organization\_id,'0')::VARCHAR(200) integration\_id,

oe\_order\_lines.\_source\_id datasource\_num\_id,

'N' Delete\_flag,

0

from mtl\_uom\_conv

right outer join

(

(

(

oe\_order\_lines

inner join

mtl\_system

on oe\_order\_lines.inventory\_item\_id

= mtl\_system.inventory\_item\_id

and oe\_order\_lines.ship\_from\_org\_id

= mtl\_system.organization\_id

)

inner join

oe\_order\_headers

on oe\_order\_lines.order\_header\_id

= oe\_order\_headers.order\_header\_id

)

inner join

mtl\_param

on oe\_order\_lines.ship\_from\_org\_id = mtl\_param.organization\_id

)

on mtl\_uom\_conv.inventory\_item\_id = oe\_order\_lines.inventory\_item\_id

and mtl\_uom\_conv.uom\_code = oe\_order\_lines.order\_quantity\_uom

where

(1 = 1)

and (

oe\_order\_lines.flow\_status\_code in ('BOOKED', 'ENTERED')

and oe\_order\_lines.open\_flag = 'Y'

and oe\_order\_lines.line\_category\_code = 'ORDER'

)

group by

mtl\_system.inventory\_item\_id,

oe\_order\_lines.customer\_account\_id,

trunc(oe\_order\_lines.request\_date, 'MM'),

nvl(oe\_order\_lines.demand\_class\_code, 'NA'),

trunc(oe\_order\_lines.last\_update\_date, 'MM'),

mtl\_system.organization\_id,

to\_char(oe\_order\_headers.order\_number)

)

),

-- third UNION ALL

sub\_3 as (

(

select

msc\_system.sr\_inventory\_item\_id inventory\_item\_id,

msc\_sales\_ord.customer\_id customer\_id,

trunc(oe\_order\_lines.actual\_shipment\_date, 'MM') c30\_due\_date,

nvl(msc\_sales\_ord.demand\_class, 'NA') c31\_demand\_class,

sum(msc\_sales\_ord.completed\_quantity) c32\_quantity,

trunc(msc\_sales\_ord.last\_update\_date, 'MM') c33\_w\_update\_dt,

msc\_sales\_ord.organization\_id organization\_id,

'Shipped' c8\_order\_type,

to\_char(

substr(

msc\_sales\_ord.sales\_order\_number,

1,

regexp\_instr(msc\_sales\_ord.sales\_order\_number, '.', 1) - 1

)

) c35\_sales\_order\_number,

msc\_plan.compile\_designator c19\_compile\_designator,

'Y' as demand\_flag,

'N' as weekly\_flag,

msc\_plan.daily\_cutoff\_bucket,

NVL(msc\_system.inventory\_item\_id|| '~' || msc\_sales\_ord.customer\_id ||'~'||msc\_sales\_ord.organization\_id,'0')::VARCHAR(200) integration\_id,

msc\_system.\_source\_id datasource\_num\_id,

'N' Delete\_flag

from msc\_system, msc\_sales\_ord, msc\_plan, oe\_order\_lines

where

(1 = 1)

and (

msc\_sales\_ord.demand\_id in (

select distinct sales\_order\_id

from msc\_fore\_upd m, msc\_system i

where

m.inventory\_item\_id = i.inventory\_item\_id

and m.organization\_id = i.organization\_id

and m.plan\_id = i.plan\_id

)

)

and msc\_sales\_ord.demand\_source\_line = oe\_order\_lines.order\_line\_id

and (msc\_sales\_ord.completed\_quantity > 0)

and (

msc\_system.inventory\_item\_id = msc\_sales\_ord.inventory\_item\_id

and msc\_system.organization\_id = msc\_sales\_ord.organization\_id

)

and (msc\_plan.plan\_id = msc\_system.plan\_id and msc\_system.plan\_id <> -1)

and (

msc\_plan.compile\_designator in (

select designator

from msc\_designators

where disable\_date is null

)

)

group by

msc\_system.sr\_inventory\_item\_id,

msc\_sales\_ord.customer\_id,

trunc(oe\_order\_lines.actual\_shipment\_date, 'MM'),

trunc(msc\_sales\_ord.requirement\_date, 'MM'),

nvl(msc\_sales\_ord.demand\_class, 'NA'),

trunc(msc\_sales\_ord.last\_update\_date, 'MM'),

msc\_sales\_ord.organization\_id,

substr(

msc\_sales\_ord.sales\_order\_number,

1,

regexp\_instr(msc\_sales\_ord.sales\_order\_number, '.', 1) - 1

),

msc\_plan.compile\_designator,

msc\_plan.daily\_cutoff\_bucket

)

),

-- 4TH UNION ALL

sub\_4 as (

(

select

msi.sr\_inventory\_item\_id inventory\_item\_id,

null customer\_id,

mss.period\_start\_date due\_date,

'NA' demand\_class,

mss.safety\_stock\_quantity quantity,

current\_timestamp() w\_update\_dt,

mss.organization\_id,

'Safety Stock' order\_type,

null sales\_order\_number,

msc.compile\_designator compile\_designator,

'N' demand\_flag,

'N' weekly\_flag,

msc.daily\_cutoff\_bucket,

NVL(msi.sr\_inventory\_item\_id|| '~' || customer\_id ||'~'||mss.organization\_id,'0')::VARCHAR(200) integration\_id,

mss.\_source\_id datasource\_num\_id,

'N' Delete\_flag

from msc\_safety\_stocks mss, msc\_system msi, msc\_plan msc

where

mss.sr\_instance\_id = msi.sr\_instance\_id

and mss.inventory\_item\_id = msi.inventory\_item\_id

and mss.organization\_id = msi.organization\_id

and mss.plan\_id = msi.plan\_id

and msi.plan\_id = msc.plan\_id

and (

msc.compile\_designator in (

select designator

from msc\_designators

where disable\_date is null

)

)

)

),

-- 5th UNION ALL

sub\_5 as (

(

select

ola.inventory\_item\_id inventory\_item\_id,

ola.customer\_account\_id customer\_id,

(

coalesce(

ola.latest\_acceptable\_date, ola.schedule\_ship\_date, '1900-01-01'

)

) c30\_due\_date,

nvl(ola.demand\_class\_code, 'NA') c31\_demand\_class,

sum(ola.ordered\_quantity \* nvl(muc.conversion\_rate, 1)) c32\_quantity, -- UOM Conversion required

trunc(ola.last\_update\_date, 'MM') c33\_w\_update\_dt,

ola.ship\_from\_org\_id organization\_id,

'Sales Orders - LAD' c8\_order\_type,

to\_char(oha.order\_number) c35\_sales\_order\_number,

'GLOBAL' c19\_compile\_designator,

'Y' as demand\_flag,

'N' as weekly\_flag,

0 daily\_cutoff\_bucket,

NVL(ola.inventory\_item\_id|| '~' || ola.customer\_account\_id ||'~'||ola.ship\_from\_org\_id,'0')::VARCHAR(200) integration\_id,

ola.\_source\_id datasource\_num\_id,

'N' Delete\_flag

from oe\_order\_lines ola, oe\_order\_headers oha, mtl\_uom\_conv muc

where

(1 = 1)

and ola.order\_header\_id = oha.order\_header\_id

and ola.open\_flag = 'Y'

and oha.open\_flag = 'Y'

and ola.order\_source\_id <> 10

and ola.line\_category\_code = 'ORDER'

and muc.inventory\_item\_id(+) = ola.inventory\_item\_id

and muc.uom\_code(+) = ola.order\_quantity\_uom

group by

ola.inventory\_item\_id,

ola.customer\_account\_id,

(

coalesce(

ola.latest\_acceptable\_date, ola.schedule\_ship\_date, '1900-01-01'

)

),

nvl(ola.demand\_class\_code, 'NA'),

trunc(ola.last\_update\_date, 'MM'),

ola.ship\_from\_org\_id,

oha.order\_number

)

),

Code working for first two set of coides (one union all)

Below: 10.4.23

with

msc\_demand as (select \* from dev\_discover.SUPPLY\_CHAIN.stg\_oracle\_\_msc\_demands),

msc\_plan as (select \* from dev\_discover.SUPPLY\_CHAIN.stg\_oracle\_\_msc\_plans),

mpo as (select \* from dev\_discover.SUPPLY\_CHAIN.stg\_oracle\_\_mpo),

mfg\_look as (select \* from dev\_discover.FINANCIALS.stg\_oracle\_\_mfg\_lookups),

msc\_system as (select \* from dev\_discover.SUPPLY\_CHAIN.stg\_oracle\_\_msc\_system\_items),

msc\_designators as (select \* from dev\_discover.SUPPLY\_CHAIN.stg\_oracle\_\_msc\_designators),

msc\_dp\_scn as (select \* from dev\_discover.SUPPLY\_CHAIN.stg\_oracle\_\_msc\_dp\_scn),

msc\_fore\_upd as (select \* from dev\_discover.SUPPLY\_CHAIN.stg\_oracle\_\_msc\_forecast\_updates),

mtl\_system as (select \* from dev\_discover.MASTER\_DATA.stg\_oracle\_\_mtl\_system\_items),

oe\_order\_lines as (select \* from dev\_discover.ORDER\_MGMT.stg\_oracle\_\_order\_lines),

oe\_order\_headers as (select \* from dev\_discover.ORDER\_MGMT.stg\_oracle\_\_order\_headers),

mtl\_uom\_conv as (select \* from dev\_discover.MASTER\_DATA.stg\_oracle\_\_mtl\_uom\_conversions),

mtl\_param as (select \* from dev\_discover.MASTER\_DATA.stg\_oracle\_\_mtl\_parameters),

msc\_sales\_ord as (select \* from dev\_discover.SUPPLY\_CHAIN.stg\_oracle\_\_msc\_sales\_orders),

msc\_safety\_stocks as (select \* from dev\_discover.SUPPLY\_CHAIN.stg\_oracle\_\_msc\_safety\_stocks),

final as(

select

SQ\_SALES\_DEMAND\_FS.ORDER\_TYPE C1\_DEMAND\_TYPE,

SQ\_SALES\_DEMAND\_FS.DEMAND\_CLASS C2\_DEMAND\_CLASS,

SQ\_SALES\_DEMAND\_FS.QUANTITY C3\_DEMAND\_QTY,

SQ\_SALES\_DEMAND\_FS.W\_UPDATE\_DT C4\_W\_UPDATE\_DT,

SQ\_SALES\_DEMAND\_FS.DUE\_DATE C5\_DUE\_DATE,

SQ\_SALES\_DEMAND\_FS.SALES\_ORDER\_NUMBER C6\_SALES\_ORDER\_NUMBER,

SQ\_SALES\_DEMAND\_FS.COMPILE\_DESIGNATOR C7\_PLAN\_NAME,

SQ\_SALES\_DEMAND\_FS.DEMAND\_FLAG C8\_DEMAND\_FLAG,

SQ\_SALES\_DEMAND\_FS.WEEKLY\_FLAG C9\_WEEKLY\_FLAG,

SQ\_SALES\_DEMAND\_FS.DAILY\_CUTOFF\_BUCKET C10\_DAILY\_CUTOFF\_BUCKET,

SQ\_SALES\_DEMAND\_FS.CUSTOMER\_ID C11\_CUSTOMER\_ID,

SQ\_SALES\_DEMAND\_FS.ORGANIZATION\_ID C12\_ORGANIZATION\_ID,

SQ\_SALES\_DEMAND\_FS.INVENTORY\_ITEM\_ID C13\_INVENTORY\_ITEM\_ID

from

(select

msc\_system.sr\_inventory\_item\_id inventory\_item\_id,

msc\_demand.customer\_id customer\_id,

to\_date(msc\_demand.using\_assembly\_demand\_date) due\_date,

nvl(msc\_demand.demand\_class, 'NA') demand\_class,

sum(

nvl(

msc\_demand.daily\_demand\_rate,

msc\_demand.using\_requirement\_quantity

)

) quantity,

to\_date(msc\_demand.last\_update\_date) w\_update\_dt,

msc\_demand.organization\_id organization\_id,

mfg\_look.meaning order\_type,

to\_char(

substr(

msc\_demand.order\_number,

1,

regexp\_instr(msc\_demand.order\_number, '.', 1) - 1

)

) sales\_order\_number,

msc\_plan.compile\_designator compile\_designator,

case

when

(

(

nvl(

case

when

msc\_demand.organization\_id = 1200

and msc\_demand.source\_organization\_id = 1202

then null

else msc\_demand.source\_organization\_id

end,

0

)

> 0

and msc\_demand.source\_organization\_id

<> msc\_demand.organization\_id

)

or msc\_demand.inventory\_item\_id

<> msc\_demand.using\_assembly\_item\_id

)

then 'N'

else 'Y'

end demand\_flag, -- added to exlcude component item demand used for make items, and do not apply org dependent logic for dop items in dtx

case

when

mfg\_look.meaning = 'Forecast'

and msc\_demand.organization\_id in (

select sr\_organization\_id

from msc\_dp\_scn

where

start\_time >= (current\_date() - 365) and bucket\_type = 2

)

then 'Y'

else 'N'

end weekly\_flag,

'N' Delete\_Flag,

msc\_plan.daily\_cutoff\_bucket,

coalesce(to\_char(msc\_system.sr\_inventory\_item\_id), '')||'~'||to\_char(msc\_demand.\_source\_id) integration\_id,

to\_char(msc\_demand.\_source\_id) datasource\_num\_id

from msc\_demand, msc\_plan, msc\_system, mfg\_look, mpo

where

(1 = 1)

and mpo.plan\_id = msc\_demand.plan\_id

and mpo.organization\_id = msc\_demand.organization\_id

and mpo.sr\_instance\_id = msc\_demand.sr\_instance\_id

and (mfg\_look.lookup\_type = 'MSC\_DEMAND\_ORIGINATION')

and (msc\_demand.using\_requirement\_quantity > 0)

and (

mfg\_look.meaning in (

'Forecast',

'Payback Demand',

'Planned order demand',

'Interorganization Demand',

'Sales Orders',

'Work order demand',

'Safety Stock Demand'

)

)

and (msc\_plan.plan\_id = msc\_demand.plan\_id)

and (

msc\_plan.compile\_designator in (

select designator

from msc\_designators

where disable\_date is null

)

)

and (msc\_system.plan\_id = msc\_plan.plan\_id)

and (

msc\_system.sr\_instance\_id = msc\_demand.sr\_instance\_id

and msc\_demand.inventory\_item\_id = msc\_system.inventory\_item\_id

and msc\_system.organization\_id = msc\_demand.organization\_id

and msc\_system.plan\_id = msc\_demand.plan\_id

)

and (msc\_demand.origination\_type = mfg\_look.lookup\_code)

group by

msc\_system.sr\_inventory\_item\_id,

msc\_demand.customer\_id,

to\_date(msc\_demand.using\_assembly\_demand\_date),

nvl(msc\_demand.demand\_class, 'NA'),

to\_date(msc\_demand.last\_update\_date),

msc\_demand.organization\_id,

mfg\_look.meaning,

substr(

msc\_demand.order\_number,

1,

regexp\_instr(msc\_demand.order\_number, '.', 1) - 1

),

msc\_plan.compile\_designator,

case

when

(

(

nvl(

case

when

msc\_demand.organization\_id = 1200

and msc\_demand.source\_organization\_id = 1202

then null

else msc\_demand.source\_organization\_id

end,

0

)

> 0

and msc\_demand.source\_organization\_id

<> msc\_demand.organization\_id

)

or msc\_demand.inventory\_item\_id

<> msc\_demand.using\_assembly\_item\_id

)

then 'N'

else 'Y'

end,

Delete\_Flag,

msc\_plan.daily\_cutoff\_bucket,

coalesce(to\_char(msc\_system.sr\_inventory\_item\_id), '')||'~'||to\_char(msc\_demand.\_source\_id),

to\_char(msc\_demand.\_source\_id)

union all

(

select

msc\_system.sr\_inventory\_item\_id inventory\_item\_id,

msc\_fore\_upd.customer\_id customer\_id,

TO\_TIMESTAMP\_NTZ(TO\_VARCHAR(msc\_fore\_upd.consumption\_date)) due\_date,

nvl(msc\_fore\_upd.demand\_class, 'NA') demand\_class,

sum(msc\_fore\_upd.consumed\_qty) quantity,

TO\_TIMESTAMP\_NTZ(TO\_VARCHAR(msc\_fore\_upd.last\_update\_date)) w\_update\_dt,

msc\_fore\_upd.organization\_id organization\_id,

'Consumption' order\_type,

to\_char(

substr(

msc\_fore\_upd.sales\_order\_number,

1,

regexp\_instr(msc\_fore\_upd.sales\_order\_number, '.', 1) - 1

)

) sales\_order\_number,

msc\_plan.compile\_designator compile\_designator,

'Y' as demand\_flag,

'N' as weekly\_flag,

'N' Delete\_flag,

msc\_plan.daily\_cutoff\_bucket,

coalesce(to\_char(msc\_system.sr\_inventory\_item\_id), '')||'~'||to\_char(msc\_plan.\_source\_id) integration\_id,

to\_char(msc\_plan.\_source\_id) datasource\_num\_id

from msc\_plan, msc\_system, msc\_fore\_upd, mpo

where

(1 = 1)

and mpo.plan\_id = msc\_fore\_upd.plan\_id

and mpo.organization\_id = msc\_fore\_upd.organization\_id

and mpo.sr\_instance\_id = msc\_fore\_upd.sr\_instance\_id

and (msc\_fore\_upd.consumed\_qty > 0)

and (msc\_plan.plan\_id = msc\_system.plan\_id)

and (

msc\_plan.compile\_designator in (

select designator

from msc\_designators

where disable\_date is null

)

)

and (

msc\_system.inventory\_item\_id = msc\_fore\_upd.inventory\_item\_id

and msc\_system.organization\_id = msc\_fore\_upd.organization\_id

)

and (msc\_plan.plan\_id = msc\_fore\_upd.plan\_id)

group by

msc\_system.sr\_inventory\_item\_id,

msc\_fore\_upd.customer\_id,

TO\_TIMESTAMP\_NTZ(TO\_VARCHAR(msc\_fore\_upd.consumption\_date)),

nvl(msc\_fore\_upd.demand\_class, 'NA'),

TO\_TIMESTAMP\_NTZ(TO\_VARCHAR(msc\_fore\_upd.last\_update\_date)),

msc\_fore\_upd.organization\_id,

order\_type,

substr(

msc\_fore\_upd.sales\_order\_number,

1,

regexp\_instr(msc\_fore\_upd.sales\_order\_number, '.', 1) - 1

),

msc\_plan.compile\_designator,

demand\_flag,

weekly\_flag,

Delete\_Flag,

msc\_plan.daily\_cutoff\_bucket,

coalesce(to\_char(msc\_system.sr\_inventory\_item\_id), '')||'~'||to\_char(msc\_plan.\_source\_id),

to\_char(msc\_plan.\_source\_id)

)

) SQ\_SALES\_DEMAND\_FS

where (1=1)

)

select count(\*)

from final