**Stage to DW process**

The following steps for Stage to DW process

**Stage to DW flow:**

Step 1:

               Waiting for Screen to staging completion

while 1=1

begin

DECLARE @Completed smallint

select @Completed=RUNFLAG from PES\_WAITRUN

if @Completed = 5

begin

BREAK

end

waitfor delay '00:01:00'

end

Step 2:

Assign current date

select getdate() as updated\_date

Step 3:  
  Load the data from Staging to PESDW for the REF tables (PES\_STAGING\_PESDW\_REF\_TABLE.dtsx package)

* + EXEC PES\_COMPANY\_NBR 'DW\_TO\_DW'
  + Update PES\_DW\_REF\_COMPANY table

PES\_REF\_COMPANY 🡪 PES\_DW\_REF\_COMPANY  
  
SELECT

COMP\_ID,

IS\_USCOMP,

COMP\_NBR,

DUNS\_NUMBER,

NBR\_SHIPMENTS,

NAME,

ADDRESS1,

CITY,

STATE,

ZIP,

COUNTRY,

VERIFIED,

CREATED\_DT,

CREATED\_BY,

MODIFIED\_BY,

MODIFIED\_DT,

IsPersonalName

FROM PES\_REF\_COMPANY A WITH (nolock)

JOIN PES\_PROCESS\_DATE B WITH (nolock)

ON A.MODIFIED\_DT>=B.LAST\_UPD\_DATE

WHERE B.PROCESS\_NAME='STG\_DW'

ORDER BY COMP\_ID

* + Insert PES\_DW\_REF\_COMPANY table

PES\_REF\_COMPANY 🡪 PES\_DW\_REF\_COMPANY

SELECT

COMP\_ID,

IS\_USCOMP,

COMP\_NBR,

DUNS\_NUMBER,

NBR\_SHIPMENTS,

NAME,

ADDRESS1,

CITY,

STATE,

ZIP,

COUNTRY,

VERIFIED,

CREATED\_DT,

CREATED\_BY,

MODIFIED\_BY,

MODIFIED\_DT,

IsPersonalName

FROM PES\_REF\_COMPANY A WITH (nolock)

JOIN PES\_PROCESS\_DATE B WITH (nolock)

ON A.MODIFIED\_DT>=B.LAST\_UPD\_DATE

WHERE B.PROCESS\_NAME='STG\_DW'

ORDER BY COMP\_ID

Step 4:

Load the company restriction data for the below tables from staging to PESDW (PES\_STAGING\_PESDW\_COMPANYRESTRICTION.dtsx package)  
  
 PES\_RESTRICTION\_CODES 🡪 PES\_DW\_RESTRICTION\_CODES

SELECT

[RESTRICTION\_CODE]

,[NAME]

,[ADDR\_1]

,[CITY]

,[STATE]

,[COUNTRY]

,[ZIP]

,[MODIFIED\_BY]

,[MODIFIED\_DT]

,[ACTIVE]

FROM PES\_RESTRICTION\_CODES A WITH (nolock)

JOIN PES\_PROCESS\_DATE B WITH (nolock)

ON A.MODIFIED\_DT>=B.LAST\_UPD\_DATE

WHERE A.MODIFIED\_DT<?

AND B.PROCESS\_NAME='STG\_DW'

ORDER BY RESTRICTION\_CODE

PES\_RESTRICTION\_MODES 🡪 PES\_DW\_RESTRICTION\_MODES

SELECT

[RESTRICTION\_MODE]

,[SHIPPER]

,[CONSIGNEE]

,[NOTIFY]

,[ALSONOTIFY]

,[MODIFIED\_BY]

,[MODIFIED\_DT]

FROM PES\_RESTRICTION\_MODES A WITH (nolock)

JOIN PES\_PROCESS\_DATE B WITH (nolock)

ON A.MODIFIED\_DT>=B.LAST\_UPD\_DATE

WHERE A.MODIFIED\_DT<?

AND B.PROCESS\_NAME='STG\_DW'

ORDER BY RESTRICTION\_MODE

PES\_COMPANY\_RESTRICTION\_INFO 🡪 PES\_DW\_COMPANY\_RESTRICTION\_INFO

SELECT

[COMP\_ID]

,[RESTRICTION\_CODE]

,[RESTRICTION\_MODE]

,[RESTRICTION\_FLAG]

,[START\_DT]

,[EXPIRY\_DT]

,[RESTRICTION\_CODE\_MODIFIED]

,[RESTRICTED\_COMP\_ID]

,[MODIFIED\_BY]

,[MODIFIED\_DT]

FROM PES\_COMPANY\_RESTRICTION\_INFO A WITH (nolock)

JOIN PES\_PROCESS\_DATE B WITH (nolock)

ON A.MODIFIED\_DT>=B.LAST\_UPD\_DATE

WHERE A.MODIFIED\_DT<?

AND B.PROCESS\_NAME='STG\_DW'

ORDER BY COMP\_ID

PES\_RESTRICTED\_COMPANY 🡪 PES\_DW\_RESTRICTED\_COMPANY

SELECT

[COMP\_ID]

,[COMPANY\_NBR]

,[NAME]

,[ADDR\_1]

,[CITY]

,[STATE]

,[COUNTRY]

,[ZIP]

,[MODIFIED\_BY]

,[MODIFIED\_DT]

FROM PES\_RESTRICTED\_COMPANY A WITH (nolock)

JOIN PES\_PROCESS\_DATE B WITH (nolock)

ON A.MODIFIED\_DT>=B.LAST\_UPD\_DATE

WHERE A.MODIFIED\_DT<?

AND B.PROCESS\_NAME='STG\_DW'

ORDER BY COMP\_ID

Step 5:

To update VESSEL DESCREPANCY

Exec [PES\_UPDATE\_BLANK\_VESSELS]

SELECT REF.NAME,MIN(REF.ID) AS ID INTO TEMPUNIQUE

FROM GTCORE\_MASTERDATA.DBO.REF\_VESSEL REF,

(SELECT NAME,MAX(MODIFIED\_DT) AS MAXDATE

FROM GTCORE\_MASTERDATA.DBO.REF\_VESSEL

WHERE NAME IN (SELECT ISNULL(VESSEL\_NAME,SRC\_VESSEL\_NAME) FROM PES.DBO.PES\_STG\_BOL (NOLOCK) WHERE VESSEL\_REF\_ID in (9244,0)

GROUP BY ISNULL(VESSEL\_NAME,SRC\_VESSEL\_NAME))

AND DELETED = 'N'

GROUP BY NAME

)SUBQ

WHERE SUBQ.NAME = REF.NAME

AND SUBQ.MAXDATE = REF.MODIFIED\_DT

GROUP BY REF.NAME

UPDATE STG

SET VESSEL\_REF\_ID = ID,MODIFY\_DATE = GETDATE()

FROM PES.DBO.PES\_STG\_BOL STG , TEMPUNIQUE

WHERE STG.VESSEL\_NAME = TEMPUNIQUE.NAME AND VESSEL\_REF\_ID in (9244,0)

AND STG.RECORD\_STATUS IN('CLEANSED','AUTOMATED')

AND STG.BOL\_STATUS IN('LATEMASTER', 'READY FOR RELEASE', 'READY')

AND ISNULL(IS\_DELETED,'') <> 'Y'

Step 6:

Load the data from Staging to PESDW for the TRANSACTION tables ( PES\_STAGING\_PESDW\_TRANS\_TABLE.dtsx package)

* + FETCH\_CONVERSION\_FACTOR\_FOR\_WEIGHT

SELECT CAST((1/CONVERSION\_FACTOR ) AS FLOAT) CONVERSION\_FACTOR

FROM REF\_WEIGHT\_UNIT

WHERE WGT\_UNIT='LB'

* + Truncate and load PES\_STG\_TEMP\_BOL\_ID from the below query

SELECT

BOL\_ID, MODIFY\_DATE

FROM PES\_STG\_BOL A with (nolock)

JOIN PES\_PROCESS\_DATE B WITH (nolock)

ON A.MODIFY\_DATE>= DateADD(hh, -12, B.LAST\_UPD\_DATE)

WHERE

REF\_VENDOR\_CODE <> 'DIS' AND

A.RECORD\_STATUS IN('CLEANSED','AUTOMATED')

AND A.BOL\_STATUS

IN('LATEMASTER', 'READY FOR RELEASE', 'READY')

AND ISNULL(IS\_DELETED,'') <> 'Y'

--AND A.MODIFY\_DATE< ?

AND B.PROCESS\_NAME='STG\_DW'

Update PES\_DW\_MHR table  
  
UPDATE PES\_DW\_MHR WITH(UPDLOCK)

SET BILL\_STATUS = B.BILL\_STATUS

FROM PES\_DW\_MHR A

JOIN PES\_DW\_MHR\_UPDATE B WITH (nolock)

ON A.BOL\_ID = B.BOL\_ID

Insert PES\_DW\_MHR table  
  
SELECT BOL\_ID,

BOL\_NBR,

BOL\_STATUS,

BOL\_DIRECTION,

REF\_LOAD\_NUM\_ID,

STND\_VOYG\_ID,

IS\_DELETED,

MODIFY\_DATE,

MODIFY\_USER

FROM PES\_DW\_MHR\_INSERT

WHERE (BOL\_STATUS <> 'DELETE'

OR RECORD\_STATUS <> 'DELETE')

* + Insert & Update PES\_DW\_BOL table

SELECT

A.BOL\_ID,

BOL\_NBR,

REF\_LOAD\_NUM\_ID,

BOL\_DIRECTION,

BOL\_FRAME\_NBR,

BATCH\_ID,

BOL\_QTY,

REF\_QTY\_UNIT\_ID,

BOL\_WGT,

REF\_WGT\_UNIT\_ID,

BOL\_MEAS,

REF\_MEAS\_UNIT\_ID,

CONFLAG,

REF\_CSTM\_CLR1\_ID,

REF\_CSTM\_CLR2\_ID,

BOL\_TRANS\_MODE\_CD,

BOL\_PAYABLE\_FLG,

BOL\_FINANCIAL\_FLG,

BOL\_PUBLISH\_CMD\_FLG,

BOL\_PUBLISH\_MAN\_FLG,

BOL\_PUBLISH\_PTY\_FLG ,

BOL\_LCL\_FLAG,

BOL\_TEU,

BOL\_NTERP\_STD\_WGT,

BOL\_UPD\_IND\_TYPE\_REF,

BOL\_CNTR\_CNT,

BOL\_CMD\_CNT,

VDATE,

ORG\_DEST\_CITY,

ORG\_DEST\_ST,

SLINE\_REF\_ID,

PORT\_DEPART\_REF\_ID,

PORT\_ARRIVE\_REF\_ID,

VESSEL\_REF\_ID,

BOL\_INTRANSIT\_FLAG,

USIB\_CODE,

FGNIB\_CODE,

USIB\_CITY,

USIB\_ST,

FGNIB\_CITY,

FGNIB\_CTRY,

INBOND\_TYPE,

EST\_VALUE,

STND\_VOYG\_ID,

VOYAGE, BANK\_ID,

MANIFEST\_NUMBER,

ULTPORT\_ID,

RECEIPT\_ID,

ISNULL(COMP\_ID, 1) COMP\_ID,

ISNULL(FCOMP\_ID,1) FCOMP\_ID,

ISNULL(NTFCOMP\_ID,1) NTFCOMP\_ID,

REGISTRY\_ID,

SCAC,

NVO\_SCAC,

NVOCC\_FLAG,

BOL\_STATUS,

RECORD\_STATUS,

BOL\_MST\_BOL\_DATA,

MODIFY\_USER,

ANTFCOMP\_ID

FROM PES\_STG\_BOL A WITH (nolock)

JOIN

PES\_STG\_TEMP\_BOL\_ID B WITH (nolock)

ON A.BOL\_ID = B.BOL\_ID

ORDER BY A.BOL\_ID

* + Update PES\_DW\_BOL\_MSTR

UPDATE PES\_DW\_BOL

SET MST\_BOL\_ID = NULL

WHERE MST\_BOL\_ID

IN (

SELECT BOL\_ID

FROM PES\_DW\_MHR

WHERE DELETED = 'Y')

UPDATE PES\_DW\_BOL WITH(UPDLOCK)

SET MST\_BOL\_ID = A.BOL\_ID

FROM PES\_DW\_MHR A WITH (nolock)

JOIN PES\_DW\_BOL B

ON

LTRIM(RTRIM(SUBSTRING(B.MST\_BOL\_DATA,42,16))) = A.BILL\_NUMBER

WHERE B.MST\_BOL\_ID IS NULL

AND SUBSTRING(B.MST\_BOL\_DATA,41,1) = 'H'

AND B.VENDOR\_CODE = 'AMS'

AND A.DELETED IS NULL

* + Load PES\_DW\_CMD table

SELECT

A.CMD\_ID,

A.BOL\_ID,

A.CMD\_SEQ\_NBR,

A.CMD\_HSCODE,

A.JOC\_CODE,

A.CMD\_CD\_CHECK\_DIGIT,

A.CMD\_DESC,

A.CMD\_PIECE\_CNT,

A.REF\_PIECE\_UNIT\_ID,

A.CMD\_VALUE\_VALUE,

A.CMD\_FCHARGE,

A.CMD\_MEAS,

A.REF\_MEAS\_UNIT\_ID,

A.CMD\_WGT\_VALUE,

A.CMD\_TEU,

A.CMD\_RORO\_FLAG,

A.CMD\_REEFER\_FLAG,

A.CMD\_HAZMAT\_FLAG,

case when A.CNTR\_SIZE='LC'

then 0

else A.CNTR\_QUANTITY

end CNTR\_QUANTITY,

A.CNTR\_VOL,

A.CNTR\_SIZE,

A.CNTR\_FLAG,

A.CON\_LENGTH,

A.CON\_WIDTH,

A.CON\_TYPE,

A.MODIFY\_USER

FROM PES\_STG\_CMD A WITH (nolock)

JOIN PES\_STG\_TEMP\_BOL\_ID B WITH (nolock)

ON A.BOL\_ID=B.BOL\_ID

ORDER BY A.BOL\_ID

* + Load PES\_DW\_CNTR table

SELECT

BOL.BOL\_ID,

CNTR.CNTR\_ID

FROM PES\_DW\_BOL BOL

LEFT OUTER JOIN PES\_DW\_CNTR CNTR

ON BOL.BOL\_ID = CNTR.BOL\_ID

ORDER BY

BOL\_ID

* + Load PES\_DW\_HZMT table

SELECT

A.HZMT\_ID,

A.BOL\_ID,

A.STND\_CNTR\_ID,

A.HAZMAT\_SEQ\_NBR,

A.HZMT\_CODE,

A.HZMT\_QUALIFIER,

A.HZMT\_CONTACT\_INFO,

A.HZMT\_PAGE\_NBR,

A.HZMT\_FLASH\_PT\_TEMP,

A.HZMT\_FLASH\_PT\_NEGATIVE\_IND,

A.HZMT\_MEAS\_UNIT,

A.HZMT\_CLASS1,

A.HZMT\_DESC1,

A.HZMT\_CLASS2,

A.HZMT\_DESC2,

A.HZMT\_CLASS3,

A.HZMT\_DESC3,

A.HZMT\_STATUS,

A.MODIFY\_USER

FROM PES\_STG\_HZMT A WITH (nolock)

JOIN PES\_STG\_TEMP\_BOL\_ID B WITH (nolock)

ON A.BOL\_ID = B.BOL\_ID

ORDER BY A.BOL\_ID

* + Load PES\_DW\_MAN table

SELECT

A.MAN\_ID,

A.BOL\_ID,

A.STND\_CNTR\_ID,

A.MAN\_SEQ\_NBR,

A.MAN\_DESC,

A.RECORD\_STATUS,

A.MODIFY\_USER

FROM PES\_STG\_MAN A WITH (nolock)

JOIN PES\_STG\_TEMP\_BOL\_ID B WITH (nolock)

ON A.BOL\_ID = B.BOL\_ID

ORDER BY A.BOL\_ID

* + Load PES\_DW\_VIN table

SELECT

BOL\_ID,

VDATE,

DIRECTION,

MANIFEST\_NUMBER

FROM PES\_DW\_BOL

ORDER BY BOL\_ID

* + Update staging

/\* UPDATE STAGING BOL\*/

UPDATE dbo.PES\_STG\_BOL

SET MODIFY\_DATE=GETDATE()

WHERE BOL\_ID IN

(SELECT DISTINCT BOL\_ID FROM dbo.PES\_AUDIT\_DETAILS

WHERE TABLE\_NAME LIKE 'PES\_DW\_%'

AND DATE > ?)

UPDATE dbo.PES\_STG\_BOL

SET PPMM\_FLAG='N'

WHERE BOL\_ID IN

(SELECT DISTINCT BOL\_ID FROM dbo.PES\_AUDIT\_DETAILS

WHERE TABLE\_NAME LIKE 'PES\_DW\_%' AND ERRORED\_AT='INSERT'

AND DATE > ?)

/\* UPDATE STAGING VIN\*/

UPDATE dbo.PES\_STG\_VIN

SET DW\_FLG='N'

WHERE T\_NBR IN

(SELECT DISTINCT BOL\_ID FROM dbo.PES\_AUDIT\_DETAILS

WHERE TABLE\_NAME LIKE 'PES\_DW\_%'

AND DATE > ?)

UPDATE PES\_DW\_BOL

SET LOAD\_STATUS = 'C', MODIFY\_DATE = GETDATE() WHERE LOAD\_STATUS = 'I'

UPDATE BL\_BL

SET SUBMITTED\_DATE=NULL

WHERE T\_NBR IN

(SELECT DISTINCT BOL\_ID FROM PES.dbo.PES\_AUDIT\_DETAILS

WHERE TABLE\_NAME LIKE 'PES\_DW\_%' AND ERRORED\_AT='INSERT'

AND DATE > ?)

* + Delete data in PESDW for the below tables

SELECT DISTINCT BOL\_ID FROM dbo.PES\_AUDIT\_DETAILS

WHERE TABLE\_NAME LIKE 'PES\_DW\_%' AND ERRORED\_AT='INSERT'

AND DATE > ?

PES\_DW\_BOL  
 PES\_DW\_CMD  
 PES\_DW\_CNTR  
 PES\_DW\_HZMT  
 PES\_DW\_MAN  
 PES\_DW\_PORTBATC

Step 7: Update PES\_PROCESS\_DATE

UPDATE PES\_PROCESS\_DATE SET LAST\_UPD\_DATE=?

WHERE PROCESS\_NAME='STG\_DW'

Step 9: Update PES\_WAITRUN TO 9  
 Update PES\_WAITRUN

SET RUNFLAG = 9

Step 10: Update status table ready

UPDATE PES\_PROCESS\_STATUS SET STATUS='READY'

WHERE PROCESS\_NAME='UPDATE\_STAGING'

Step 11: Send success email to group