# Business Need/Requirement:

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**PIR Project Explanation:**

We are working towards the first startup division for Order Management (Modernization). We need to build an ETL process from the non-JDE AS400 iSeries database of the backhaul info to load the PO9B in the OMS Oracle database.

**SCLM Package Type: (LOGI, BILL, FINA…..)**

MFBIF

**SCLM Package Team:**

MFBIF

**Systems Impacted:**

Order Management – Modernization

**Complexity Level (*Low, Medium, High*):**

Low

**Deliverables**

* **Parm File:** /local/proddata/mdn/prod/system/parm/OMSPurchaseOrders.parm
* **XML:**
  + /local/proddata/mdn/prod/XML/OMSPurchaseOrders.xml
* **SQL:**
  + /local/proddata/mdn/prod/SQL/oms\_etl\_po9b\_source.sql
  + /local/proddata/mdn/prod/SQL/oms\_etl\_po9b\_merge.sql
* **Oracle external table:** EX9B\_PO9B\_EXTBL

**Managers Checklist & Documentation Size:** Small



**Special Instructions:**

We want to archive the extracts from the data warehouse. We will want to keep 40 generations. This will be built into the process.

During this process you will need to DDL an Oracle external table and request this from the DBAs to be created in the OMS\_OMSD1 database in the OMS schema. Before you send this request to the DBAs, you should first create the external table in the OMS\_OMSD1 database in your personal schema. Create a test file and query the test file to make sure the DDL for the external table is correct.

**Process Logic:**

**Process:**

**Parm File:**

The /local/proddata/mdn/prod/system/parm/OMSPurchaseOrders.parm will have 1 step to call the XML file that will sequence the tables and perform each net change

**XML**

* The first XML file, /local/proddata/mdn/prod/XML/OMSPurchaseOrders.xml, has already been created. This will be updated as new tables are added to the Purchase Orders ETL process.
* The second XML file, /local/proddata/mdn/prod/XML/OMS\_ETLNetChangeProcess.xml, already exists and should not be modified.

**SQLs:**

* The first SQL, /local/proddata/mdn/prod/SQL/oms\_etl\_po9b\_source.sql, is the extract of current data from the data warehouse source. It will be extracted from the PDWHFS database.

The SQL must match the format of the PO9B table and will have the following mapping

SELECT CASE WHEN PO80BHCOD = ' '

THEN ' '

ELSE TRIM(PO80BHCOD)

END

,CASE WHEN PO80BHDES = ' '

THEN ' '

ELSE TRIM(PO80BHDES)

END

,CASE WHEN PO80SHORT = ' '

THEN ' '

ELSE TRIM(PO80SHORT)

END

FROM MBMDTAPRD.PO80

* The second SQL, /local/proddata/mdn/prod/SQL/oms\_etl\_po9b\_merge.sql, will be a net change merge statement that will insert, update and set the last\_active\_date accordingly

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**External Table:**

In order to do the merge an Oracle external table will need to be created. This table will need to be in the same format as the first SQL extract from above.

The external table DDL will look something like this for this ETL

**Testing**

Inserts

* First delete the data from the table in the database OMS\_OMSD1.
* Take a screen shot that the table is empty.
* Run the process from the command line on dwhapp-run or dwhapp-bld.
* Once the process completes you should query the table and take a screen shot that it has data.

Updates

* Update the table and change some non-key field to TEST for each record.
* Take a screen shot that the table has data and the description has TEST in it
* Run the process again from the command line
* Once the process completes you should query the table and take a screen shot that all records updated now have their proper description instead of TEST.

Deletes

* Modify the where clause in the SQL of the /local/proddata/mdn/prod/SQL/oms\_etl\_po9b\_source.sql file so that a record or set of records will no longer appear.
* Take a screen shot the current record on the database that will be deleted. Show the LAST\_ACTIVE\_DATE field is sometime in the future.
* Run the process again from the command line
* Once the process completes you should query the table and take a screen shot that the record that was targetted to be deleted now has a LAST\_ACTIVE\_DATE of the current system date.
* When completed and the test has passed, make sure to put the /local/proddata/mdn/prod/SQL/oms\_etl\_po9b\_source.sql to the way it was prior before the delete test.