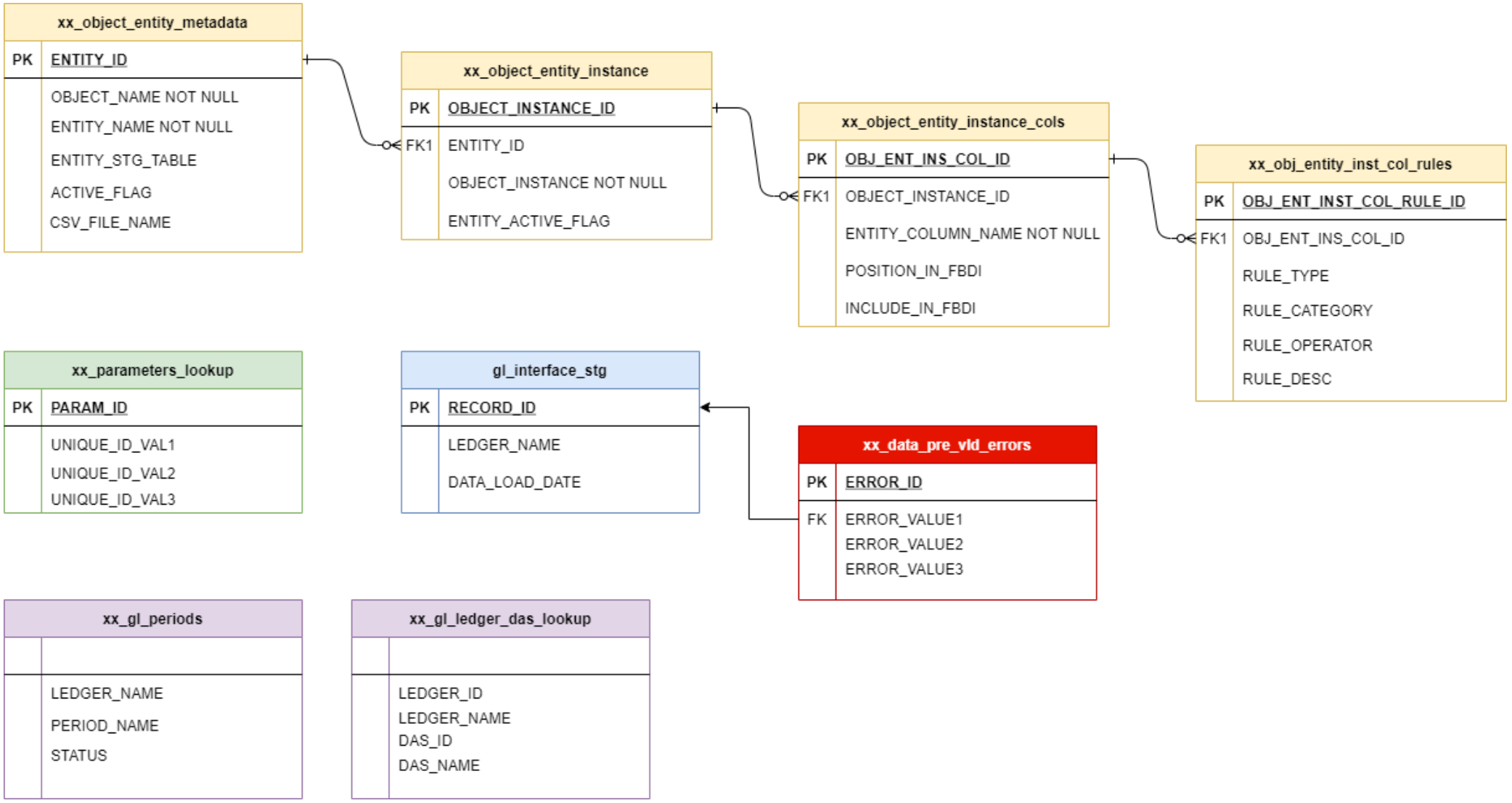
Build Automation Framework for Data Migration

ER Diagram of Automation Framework Tables



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XX_OBJECT_ENTITY_METADATA

Worksheet | Query Builder

```
SELECT *
  FROM xx_object_entity_metadata;
```

Query... | SQL | All Rows Fetched: 3 in 1.605 seconds

	OBJECT_NAME	ENTITY_ID	ENTITY_NAME	ENTITY_STG_TABLE	ACTIVE_FLAG	CSV_FILE_NAME	LAST_UPDATE_DATE
1	JournalImport	1	GL_INTERFACE	GL_INTERFACE_STG	Y	GlInterface.csv	29-08-21
2	PayablesStandardInvoice	2	AP_INVOICES_INTERFACE	AP_INVOICES_INTERFACE_STG	Y	ApInvoicesInterface.csv	29-08-21
3	PayablesStandardInvoice	3	AP_INVOICE_LINES_INTERFACE	AP_INVOICE_LINES_INTERFACE_STG	Y	ApInvoiceLinesInterface.csv	29-08-21

XX_OBJECT_ENTITY_INSTANCE

Worksheet | Query Builder

```
SELECT *
  FROM xx_object_entity_instance;
```

Query Result | SQL | All Rows Fetched: 6 in 0.662 seconds

	OBJECT_INSTANCE_ID	OBJECT_INSTANCE	ENTITY_ID	ENTITY_ACTIVE_FLAG	LAST_UPDATE_DATE
1	1	JournalImport_US	1	Y	29-08-21
2	2	JournalImport_IN	1	Y	29-08-21
3	3	PayablesStandardInvoice_IN	2	Y	29-08-21
4	4	PayablesStandardInvoice_IN	3	Y	29-08-21
5	5	PayablesStandardInvoice_US	2	Y	29-08-21
6	6	PayablesStandardInvoice_US	3	N	29-08-21

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XX_OBJECT_ENTITY_INSTANCE_COLS

Worksheet | Query Builder

```
SELECT *
  FROM xx_object_entity_instance_cols;
```

Query Result

SQL | Fetched 50 rows in 0.704 seconds

	OBJ_ENT_INS_COL_ID	OBJECT_INSTANCE_ID	ENTITY_COLUMN_NAME	POSITION_IN_FBDI	INCLUDE_IN_FBDI	LAST_UPDATE_DATE
1	1	1	STATUS	5	Y	29-08-21
2	2	1	LEDGER_ID	10	Y	29-08-21
3	3	1	ACCOUNTING_DATE	15	Y	29-08-21
4	4	1	USER_JE_SOURCE_NAME	20	Y	29-08-21
5	5	1	USER_JE_CATEGORY_NAME	25	Y	29-08-21
6	6	1	CURRENCY_CODE	30	Y	29-08-21
7	7	1	DATE_CREATED	35	Y	29-08-21
8	8	1	ACTUAL_FLAG	40	Y	29-08-21
9	9	1	SEGMENT1	45	Y	29-08-21
10	10	1	SEGMENT2	50	Y	29-08-21
11	11	1	SEGMENT3	55	Y	29-08-21
12	12	1	SEGMENT4	60	Y	29-08-21
13	13	1	SEGMENT5	65	Y	29-08-21
14	14	1	SEGMENT6	70	Y	29-08-21

XX_OBJ_ENTITY_INST_COL_RULES

Worksheet | Query Builder

```
SELECT *
  FROM xx_obj_entity_inst_col_rules;
```

Query Result

SQL | All Rows Fetched: 8 in 1.328 seconds

	OBJ_ENT_INST_COL_RULE_ID	OBJ_ENT_INS_COL_ID	RULE_TYPE	RULE_CATEGORY	RULE_OPERATOR	RULE_DESC	LAST_UPDATE_DATE
1	1	1	SELECT	DEFAULT	(null)	'NEW'	29-08-21
2	2	2	SELECT	SUBQUERY	(null)	(SELECT ledger_id FROM xx_gl_ledger_das_lookup WHERE ledger_name='US Primary Ledger')	29-08-21
3	3	4	SELECT	DEFAULT	(null)	'Spreadsheet'	29-08-21
4	4	5	SELECT	DEFAULT	(null)	'Miscellaneous'	29-08-21
5	5	8	SELECT	DEFAULT	(null)	'A'	29-08-21
6	6	92	WHERE	AND	=	'US Primary Ledger'	29-08-21
7	7	67	WHERE	AND	NOT EXISTS	(SELECT 1 FROM xx_data_pre_vld_errors WHERE error_value1=record_id)	29-08-21
8	8	46	SELECT	DEFAULT	(null)	REFERENCE1	29-08-21

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Rules of Configuring Transformation Rules

Worksheet | Query Builder

```
SELECT *
  FROM xx_obj_entity_inst_col_rules;
```

Query Result

SQL | All Rows Fetched: 8 in 1.328 seconds

	OBJ_ENT_INST_COL_RULE_ID	OBJ_ENT_INS_COL_ID	RULE_TYPE	RULE_CATEGORY	RULE_OPERATOR	RULE_DESC	LAST_UPDATE_DATE
1	1	1	SELECT	DEFAULT	(null)	'NEW'	29-08-21
2	2	2	SELECT	SUBQUERY	(null)	(SELECT ledger_id FROM xx_gl_ledger_das_lookup WHERE ledger_name='US Primary Ledger')	29-08-21
3	3	4	SELECT	DEFAULT	(null)	'Spreadsheet'	29-08-21
4	4	5	SELECT	DEFAULT	(null)	'Miscellaneous'	29-08-21
5	5	8	SELECT	DEFAULT	(null)	'A'	29-08-21
6	6	92	WHERE	AND	=	'US Primary Ledger'	29-08-21
7	7	67	WHERE	AND	NOT EXISTS	(SELECT 1 FROM xx_data_pre_vld_errors WHERE error_value1=record_id)	29-08-21
8	8	46	SELECT	DEFAULT	(null)	REFERENCE1	29-08-21

RULE_TYPE	RULE_CATEGORY	RULE_OPERATOR	RULE_DESC
SELECT	DEFAULT		'NEW'
	SUBQUERY		(SELECT ledger_id FROM xx_gl_ledger_das_lookup WHERE ledger_name='US Primary Ledger')
WHERE	AND	=/<>/IS/IS NOT/IN/NOT IN/EXISTS/NOT EXISTS	'US Primary Ledger'
	OR	=/<>/IS/IS NOT/IN/NOT IN/EXISTS/NOT EXISTS	'US Primary Ledger'
ORDER_BY			

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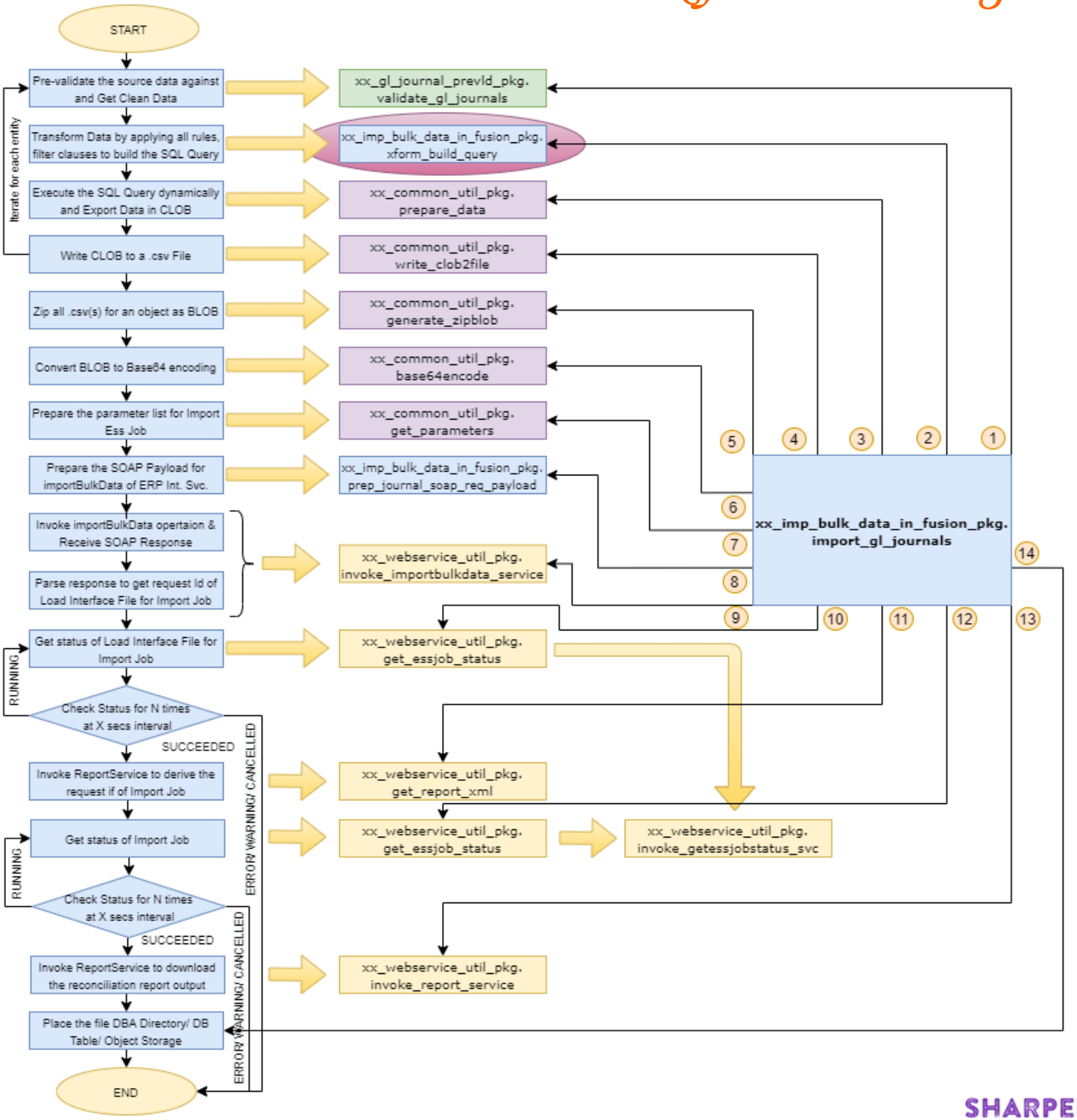

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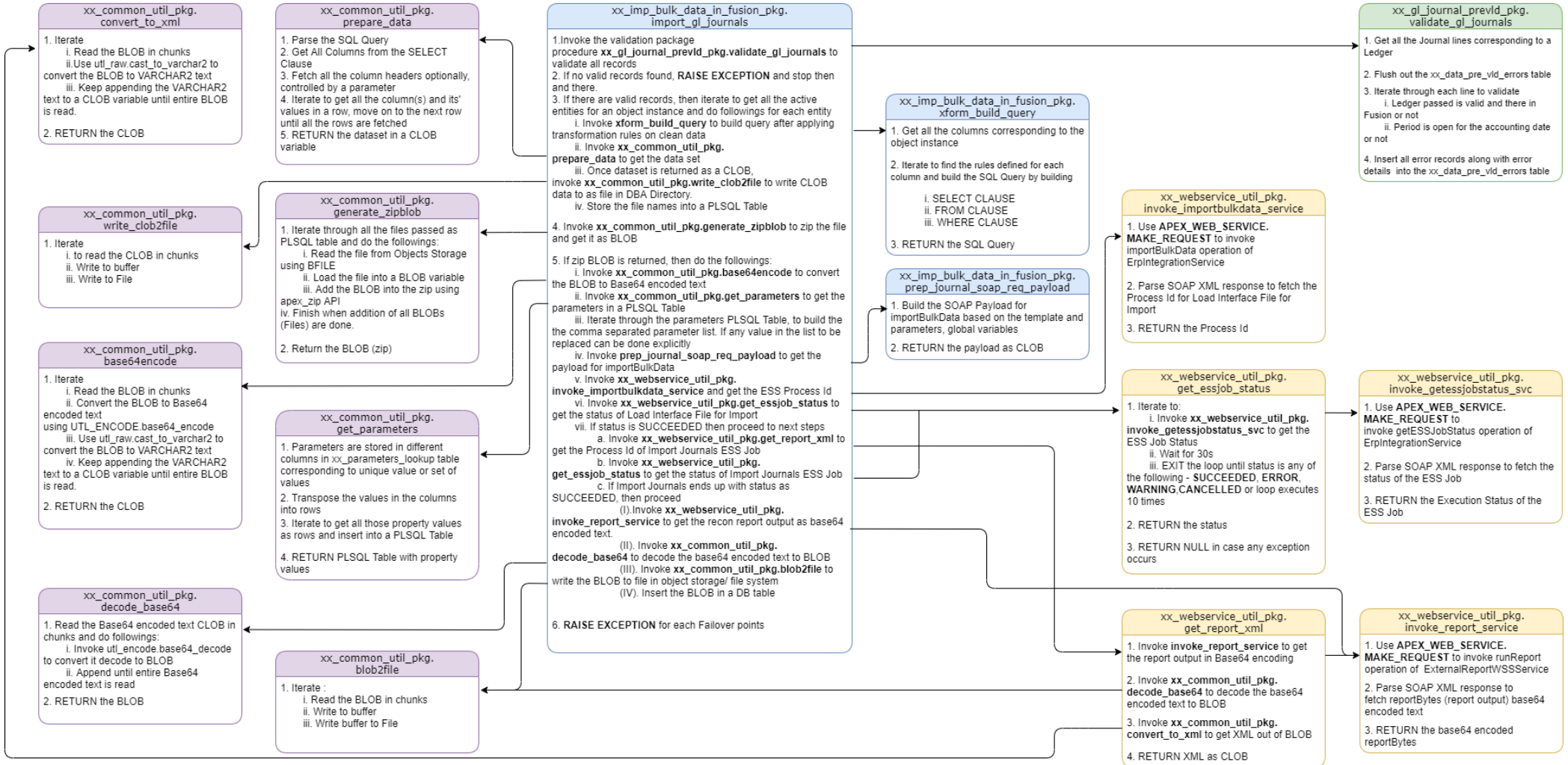

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Build Automation Framework for Data Migration

1. **xx_imp_bulk_data_in_fusion_pkg (v2)**

   - **import_gl_journals** is modified to have another argument p_gljournal_instance (e.g. JournalImport_US, JournalImport_IN) and based on that query metadata tables to get the relevant active entities and details about columns corresponding to an entity required for importing journals. And rest of the logic remains same.

   - **xform_build_query** to apply transformation rules and build the SQL query to extract and prepare the data for import.

2. **xx_gl_journal_prevld_pkg (v2)**

   - **validate_gl_journals** is modified to include another argument p_object_instance e.g. JournalImport_US, JournalImport_IN etc.

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