Generate Load and Report Data Using Custom Payroll Flow Pattern
By: Ashish Harbhajanka

Introduction

Some of us might be aware of the various different ways to loading data into Oracle HCM Cloud which are:

1) HCM Data Loader
2) HCM Spreadsheet Data Loader
3) Via Web Service Call (Webservice / REST)
4) Data Entry from UI

And also "**Inbound Interface HCM Extract**".

Inbound Interface HCM Extract which is also sometime referred as **Loopback Interface** is a process where Data is generated by "HCM Extracts" and after making some modification on the generated data (applying transformation / business logic on eText Template) is loaded back into the application (and all this with mere submission of the "HCM Extracts").

So far so good but many a times one would like to have data generated via other data source (say BIP , OTBI etc) and still intend to load data into application back. For such scenarios we can use this method which I am going to refer from now on as "**Generate and Load Data**".

"**Generate and Load Data**" sounds similar to "**Import and Load Data**" and yes it is a little bit and that is why I have try to give such a name, but before proceeding further I would explain what is meant by "**Generate and Load Data**".

Generate Load and Report Data

No, this is not a delivered task/flow in the Oracle HCM Cloud Application (at least not till Release 13 20B) but is being referred to a custom payroll flow pattern which will comprise of the following flow-tasks:

1) Generate Data
2) Generate HCM Data Loader File
3) Initiate HCM Data Loader
4) Trigger HDL Error Report

Generate Data

Generate Data is a custom payroll task (after renaming "Run BI Publisher Report"). This particular task runs a BIP Report which generates a TXT file and loads the same into Web Center Content (UCM Server) by using Bursting Option.

Generate HCM Data Loader File

This flow task is a sub-task of "Load Data From File" which takes Content ID (yes the file must be available in UCM) , Transformation Formula (Fast Formula of **HCM Data Loader** Type) and Process Configuration Group (required to submit any process flow) and generates a new File and places the same in the UCM Server

Initiate Data Loader

This flow task is also a sub-task of "Load Data From File" which take the output generated by "Generate HCM Data Loader File" and then initiates the Data Loader process

Trigger HDL Error Report

Generate Data is a custom payroll task (after renaming "Run BI Publisher Report"). This particular task runs a HDL Error Report (BIP Report which generates a XLSX file).

So this is a brief description about the various tasks which would be used while creating the Custom Payroll Flow Task namely “Generate and Load Data”.

We would need to perform below steps prior to creating “Generate and Load Data”

1) Create BIP Report which will generate TXT File and place the same in UCM Server using BIP Bursting
2) Create a “HCM Data Loader” type Fast Formula.

So, without further ado let’s get started.

Creating BIP Report

For this example we will create a simple BIP report which will generate the data fields required for PersonAccrualDetail Business Object.

Details about the data fields is as below

Attribute Name	Attribute Value	Meaning
AccrualType	‘ADJOTH’	Choose any of the available Accrual Type
AdjustmentReason	‘SICK_ADJ’	Custom Lookup Code defined ANC_ABS_PLAN_OTHER_REASONS Lookup
PersonNumber	PER_ALL_PEOPLE_F.PERSON_NUMBER	Person Number
PlanName	ANC_ABSENCE_PLANS_F_TL.NAME	Absence Plan Name on which adjustment entry will be added
Value	5	Value to be Adjusted (7 for this example)
WorkTermsNumber	PER_ALL_ASSIGNMENTS_M.ASSIGNMENT_NUMBER	Assignment Number of the Employment Terms Record from Assignment Table
ProcdDate	SYSDATE	Date on which adjustment is to be made. Sysdate for this example
SourceSystemOwner	HRC_LEGACY	Custom Lookup Code defined in HRC_SOURCE_SYSTEM_OWNER Lookup
SourceSystemId	PER_ALL_PEOPLE_F.PERSON_NUMBER || '_' || upper(ANC_ABSENCE_PLANS_F_TL.NAME) || '_' || 'SICK_ADJ' || '_' || TO_CHAR(SYSDATE,'YYYYMMDD')	Unique ID required for HDL Load

We would need to create a Data Model which will have 2 Data Sets and 1 Bursting Query

FlowTask_ds

This is the master data set (primarily used to associate the BIP Report run with the Payroll Flow task we are going to generate in later part). This data set returns the PAY_REQUEST CALL_ID which is used to allow the BIP report to Burst to a single file. In addition, the CALL_ID is used to uniquely identify the BIP report once it is uploaded to UCM.

SQL for FlowTask_ds

```
select r.call_id
from pay_flow_task_instances fti,
,pay_flow_tasks_vl ft
,pay_requests r
where ft.flow_task_name = 'Generate Data'
and ft.base_flow_task_id = fti.base_flow_task_id
and fti.flow_task_instance_id = r.flow_task_instance_id
and r.call_type= 'ESS'
and  fti.flow_task_instance_id = :TASK_INSTANCE_ID
union
select 1234
from dual
where :TASK_INSTANCE_ID is null
```

GenerateData_ds

This is the data set which would generate the data which will be used for Data Load. For this example it would fetch the Adjustment Details which would be loaded to a specific plan

SQL for Generate_ds

```
select  'ADJOTH' ACCRUALTYPE,
        'SICK_ADJ' ADJUSTMENTREASON,
                          papf.person_number PERSONNUMBER,
                 aapft.name PLANNAME,
                          7 VALUE,
                           (select distinct paam1.assignment_number
                            from   per_all_assignments_m paam1
                            where  paam1.assignment_type = 'ET'
                            and    paam1.primary_flag = 'N'
                            and    trunc(ppos.date_start) between paam1.effective_start_date and
paam1.effective_end_date
                            and    paam1.period_of_service_id = ppos.period_of_service_id
                            and    paam1.person_id = papf.person_id
                            and    rownum = 1
                           ) WORKTERMSNUMBER,
                           to_char(SYSDATE,'YYYY/MM/DD') PROCDDATE,
                           'HRC_LEGACY' SOURCESYSTEMOWNER,
                           papf.person_number || '_' || upper(aapft.name) || '_' || 'SICK_ADJ' || '_' ||
TO_CHAR(SYSDATE,'YYYYMMDD') SOURCESYSTEMID
from   per_all_people_f papf,
       per_periods_of_service ppos,
       anc_absence_plans_f_tl aapft,
                per_all_assignments_m paam,
                anc_per_plan_enrollment appe
where  papf.person_id = paam.person_id
and    papf.person_id = ppos.person_id
and    ppos.period_of_service_id = paam.period_of_service_id
and    appe.prd_of_svc_id = paam.period_of_service_id
and    papf.person_id = appe.person_id
AND appe.plan_id = aapft.absence_plan_id
AND paam.primary_flag = 'Y'
AND paam.assignment_type IN ('E', 'C', 'N', 'P')
AND aapft.language = 'US'
and aapft.name = 'Sick'
and trunc(ppos.date_start) between papf.effective_start_date and papf.effective_end_date
and trunc(ppos.date_start) between paam.effective_start_date and paam.effective_end_date
and trunc(ppos.date_start) between aapft.effective_start_date and aapft.effective_end_date
and not exists
(
select 1
from   anc_per_acrl_entry_dtls apaed,
       anc_absence_plans_f_tl aapft
where apaed.type = 'ADJOTH'
and   apaed.adjustment_reason = 'SICK_ADJ'
and   apaed.pl_id = aapft.absence_plan_id
and   aapft.language = 'US'
and   aapft.name = 'Sick'
and   apaed.person_id = papf.person_id
)
```

BurstToUCM

The bursting query will result in a file being sent to UCM. The CONTENT_ID of the file will be of the form:
'PersonAccrualDetail'||to_char(CALL_ID) where CALL_ID is unique to the specific instance of the process.

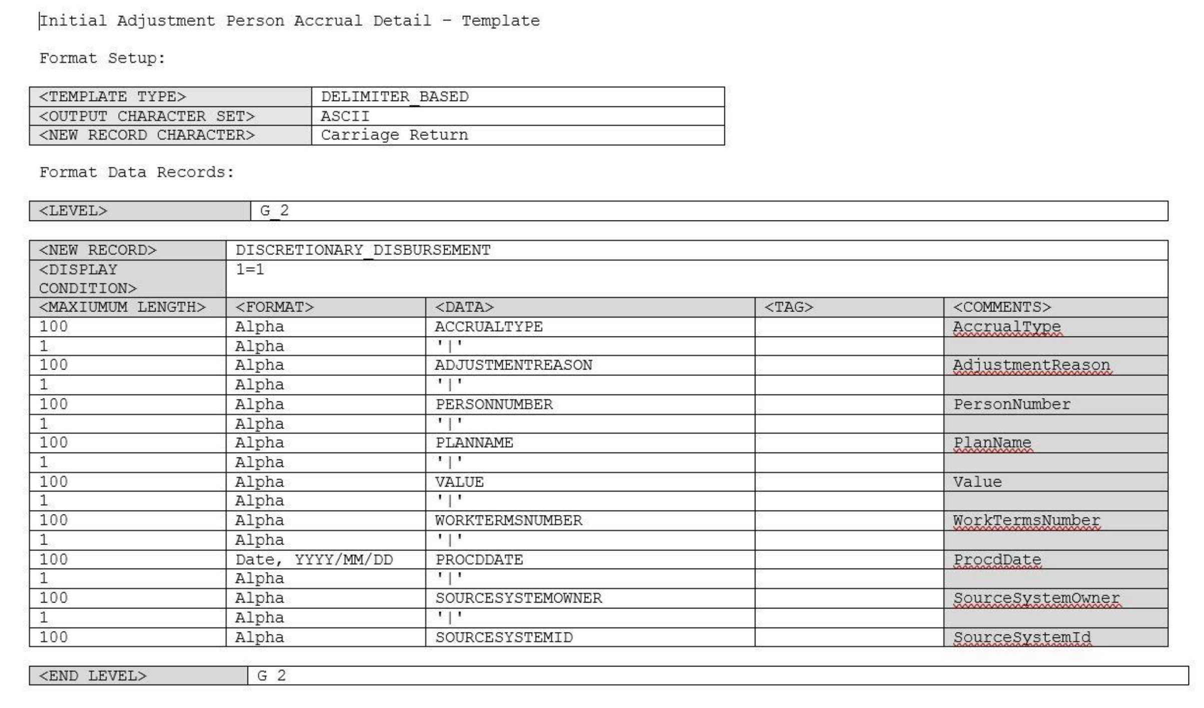
The Title of the file in UCM will be of the form: 'PersonAccrualDetail'||to_char(CALL_ID)

SQL Query for BurstToUCM

```
select to_char(call_id) as "KEY",
'PersonAccrualDetail' TEMPLATE,
'en-US' LOCALE,
'TEXT' OUTPUT_FORMAT,
'WCC' DEL_CHANNEL,
'FA_UCM_PROVISIONED' PARAMETER1,
            /* Server Name */
'FAFusionImportExport' PARAMETER2,
            /* Security Group */
:xdo_user_name PARAMETER3,
                        /* Author of the File */
'PersonAccrualDetail'||to_char(call_id) PARAMETER5,             /* Title */
'PersonAccrualDetail.dat' PARAMETER6,          /* Output File Name */
:TASK_INSTANCE_ID PARAMETER7,                                   /* Comments (Optional) */
'PersonAccrualDetail'||to_char(call_id) PARAMETER8,                          /* Content ID
(Optional) If you specify the ID, it must be unique. If you don't specify the ID, the system generates
a unique one. */
'FALSE' PARAMETER9
                                    /* Custom metadata (true/false). Specify 'false'. */
from
(
select r.call_id
from pay_flow_task_instances fti
,pay_flow_tasks_vl ft
,pay_requests r
where ft.flow_task_name = 'Generate Data'
and ft.base_flow_task_id = fti.base_flow_task_id
and fti.flow_task_instance_id = r.flow_task_instance_id
and r.call_type= 'ESS'
and  fti.flow_task_instance_id = :TASK_INSTANCE_ID
union
select 1234
from dual
where :TASK_INSTANCE_ID is null
)
```

BIP Report EText Template

We would need to have a EText Template attached to the Report such that it gives data in pipe delimited way. The EText used in this example looks as below:



Initial Adjustment Person Accrual Detail - Template

Format Setup:

<TEMPLATE TYPE>	DELIMITER_BASED
<OUTPUT CHARACTER SET>	ASCII
<NEW RECORD CHARACTER>	Carriage Return

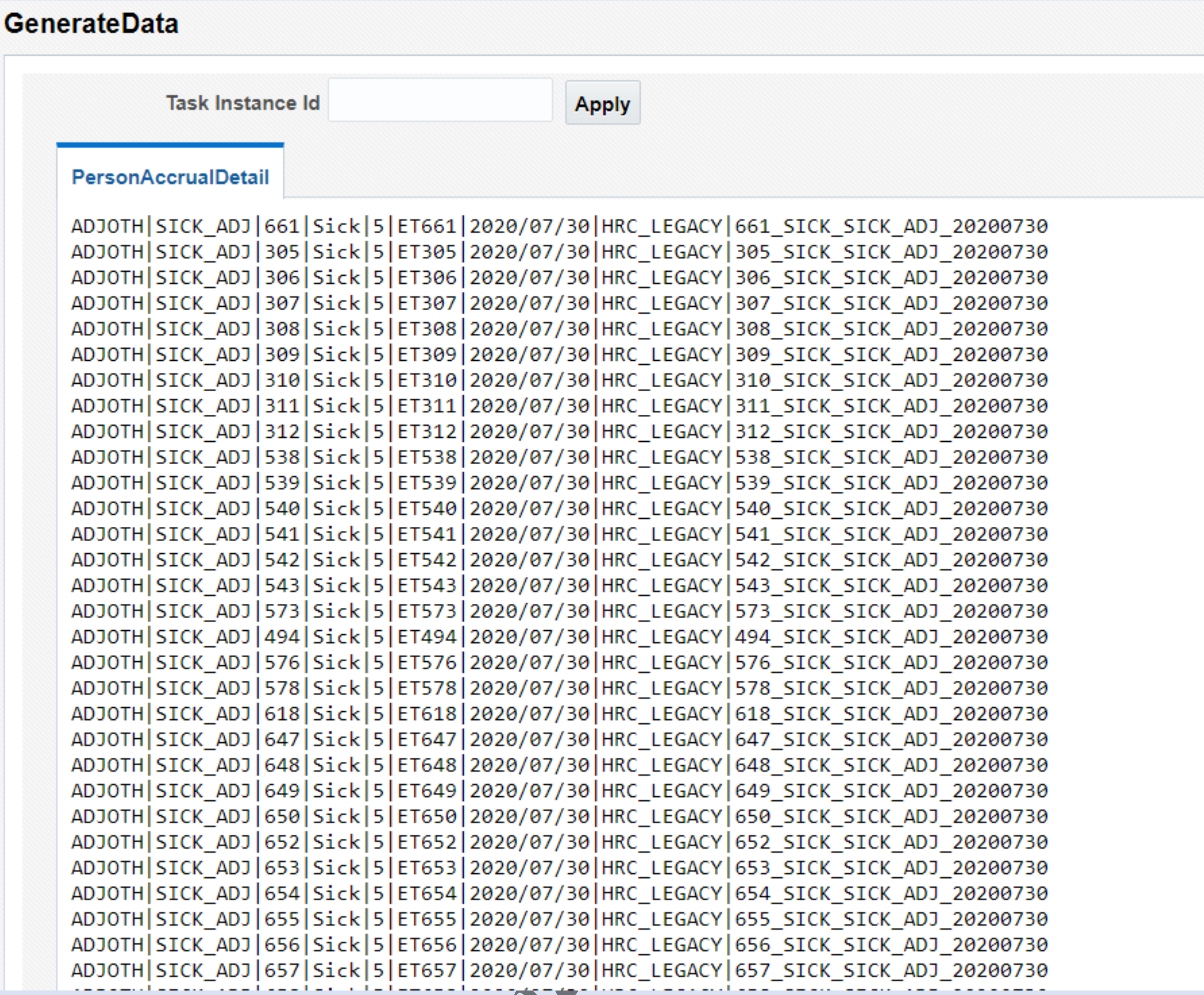
Format Data Records:

<LEVEL>	G_2

<NEW RECORD>	DISCRETIONARY_DISBURSEMENT			
<DISPLAY CONDITION>	1=1			
<MAXIUMUM LENGTH>	<FORMAT>	<DATA>	<TAG>	<COMMENTS>
100	Alpha	ACCRUALTYPE		AccrualType
1	Alpha	'|'		
100	Alpha	ADJUSTMENTREASON		AdjustmentReason
1	Alpha	'|'		
100	Alpha	PERSONNUMBER		PersonNumber
1	Alpha	'|'		
100	Alpha	PLANNAME		PlanName
1	Alpha	'|'		
100	Alpha	VALUE		Value
1	Alpha	'|'		
100	Alpha	WORKTERMSNUMBER		WorkTermsNumber
1	Alpha	'|'		
100	Date, YYYY/MM/DD	PROCDDATE		ProcdDate
1	Alpha	'|'		
100	Alpha	SOURCESYSTEMOWNER		SourceSystemOwner
1	Alpha	'|'		
100	Alpha	SOURCESYSTEMID		SourceSystemId

<END LEVEL>	G 2

And once we upload the template and try to run the report data should appear as below:



```
ADJOTH|SICK_ADJ|661|Sick|5|ET661|2020/07/30|HRC_LEGACY|661_SICK_SICK_ADJ_20200730
ADJOTH|SICK_ADJ|305|Sick|5|ET305|2020/07/30|HRC_LEGACY|305_SICK_SICK_ADJ_20200730
ADJOTH|SICK_ADJ|306|Sick|5|ET306|2020/07/30|HRC_LEGACY|306_SICK_SICK_ADJ_20200730
ADJOTH|SICK_ADJ|307|Sick|5|ET307|2020/07/30|HRC_LEGACY|307_SICK_SICK_ADJ_20200730
ADJOTH|SICK_ADJ|308|Sick|5|ET308|2020/07/30|HRC_LEGACY|308_SICK_SICK_ADJ_20200730
ADJOTH|SICK_ADJ|309|Sick|5|ET309|2020/07/30|HRC_LEGACY|309_SICK_SICK_ADJ_20200730
ADJOTH|SICK_ADJ|310|Sick|5|ET310|2020/07/30|HRC_LEGACY|310_SICK_SICK_ADJ_20200730
ADJOTH|SICK_ADJ|311|Sick|5|ET311|2020/07/30|HRC_LEGACY|311_SICK_SICK_ADJ_20200730
ADJOTH|SICK_ADJ|312|Sick|5|ET312|2020/07/30|HRC_LEGACY|312_SICK_SICK_ADJ_20200730
ADJOTH|SICK_ADJ|538|Sick|5|ET538|2020/07/30|HRC_LEGACY|538_SICK_SICK_ADJ_20200730
ADJOTH|SICK_ADJ|539|Sick|5|ET539|2020/07/30|HRC_LEGACY|539_SICK_SICK_ADJ_20200730
ADJOTH|SICK_ADJ|540|Sick|5|ET540|2020/07/30|HRC_LEGACY|540_SICK_SICK_ADJ_20200730
ADJOTH|SICK_ADJ|541|Sick|5|ET541|2020/07/30|HRC_LEGACY|541_SICK_SICK_ADJ_20200730
ADJOTH|SICK_ADJ|542|Sick|5|ET542|2020/07/30|HRC_LEGACY|542_SICK_SICK_ADJ_20200730
ADJOTH|SICK_ADJ|543|Sick|5|ET543|2020/07/30|HRC_LEGACY|543_SICK_SICK_ADJ_20200730
ADJOTH|SICK_ADJ|573|Sick|5|ET573|2020/07/30|HRC_LEGACY|573_SICK_SICK_ADJ_20200730
ADJOTH|SICK_ADJ|494|Sick|5|ET494|2020/07/30|HRC_LEGACY|494_SICK_SICK_ADJ_20200730
ADJOTH|SICK_ADJ|576|Sick|5|ET576|2020/07/30|HRC_LEGACY|576_SICK_SICK_ADJ_20200730
ADJOTH|SICK_ADJ|578|Sick|5|ET578|2020/07/30|HRC_LEGACY|578_SICK_SICK_ADJ_20200730
ADJOTH|SICK_ADJ|618|Sick|5|ET618|2020/07/30|HRC_LEGACY|618_SICK_SICK_ADJ_20200730
ADJOTH|SICK_ADJ|647|Sick|5|ET647|2020/07/30|HRC_LEGACY|647_SICK_SICK_ADJ_20200730
ADJOTH|SICK_ADJ|648|Sick|5|ET648|2020/07/30|HRC_LEGACY|648_SICK_SICK_ADJ_20200730
ADJOTH|SICK_ADJ|649|Sick|5|ET649|2020/07/30|HRC_LEGACY|649_SICK_SICK_ADJ_20200730
ADJOTH|SICK_ADJ|650|Sick|5|ET650|2020/07/30|HRC_LEGACY|650_SICK_SICK_ADJ_20200730
ADJOTH|SICK_ADJ|652|Sick|5|ET652|2020/07/30|HRC_LEGACY|652_SICK_SICK_ADJ_20200730
ADJOTH|SICK_ADJ|653|Sick|5|ET653|2020/07/30|HRC_LEGACY|653_SICK_SICK_ADJ_20200730
ADJOTH|SICK_ADJ|654|Sick|5|ET654|2020/07/30|HRC_LEGACY|654_SICK_SICK_ADJ_20200730
ADJOTH|SICK_ADJ|655|Sick|5|ET655|2020/07/30|HRC_LEGACY|655_SICK_SICK_ADJ_20200730
ADJOTH|SICK_ADJ|656|Sick|5|ET656|2020/07/30|HRC_LEGACY|656_SICK_SICK_ADJ_20200730
ADJOTH|SICK_ADJ|657|Sick|5|ET657|2020/07/30|HRC_LEGACY|657_SICK_SICK_ADJ_20200730
```

Next, we will need to create a Fast Formula of “HCM Data Loader” Type.

Create Transformation Formula of HCM Data Loader Type

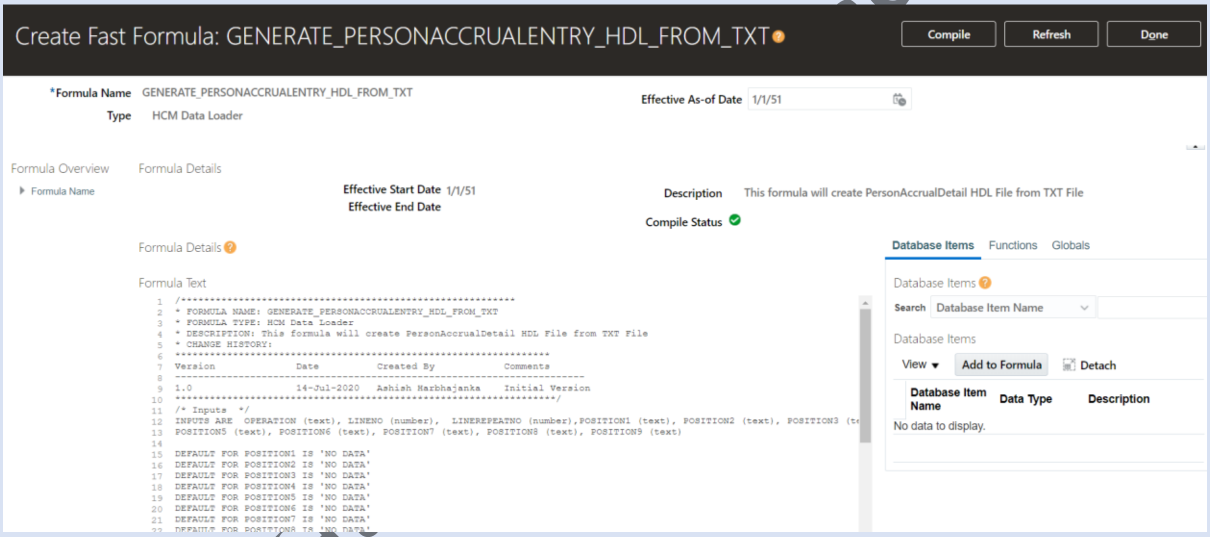
As a next step we would need to create a Fast Formula which will take the above file and convert it in into corresponding HDL File. (GENERATE_PERSONACCRUALENTRY_HDL_FROM_TXT)

Fast Formula (GENERATE_PERSONACCRUALENTRY_HDL_FROM_TXT) Text

```
/*****************************************************
*
* FORMULA NAME: GENERATE_PERSONACCRUALENTRY_HDL_FROM_TXT
* FORMULA TYPE: HCM Data Loader
* DESCRIPTION: This formula will create PersonAccrualDetail HDL File from TXT File
* CHANGE HISTORY:
*******************************************************
Version            Date          Created By           Comments
---------------------------------------------------------------------
1.0                14-Jul-2020   Ashish Harbhajanka    Initial Version
*******************************************************/
/* Inputs  */
INPUTS ARE  OPERATION (text), LINENO (number),  LINEREPEATNO
(number),POSITION1 (text), POSITION2 (text), POSITION3 (text), POSITION4 (text),
POSITION5 (text), POSITION6 (text), POSITION7 (text), POSITION8 (text), POSITION9 (text)
```

```
DEFAULT FOR POSITION1 IS 'NO DATA'
DEFAULT FOR POSITION2 IS 'NO DATA'
DEFAULT FOR POSITION3 IS 'NO DATA'
DEFAULT FOR POSITION4 IS 'NO DATA'
DEFAULT FOR POSITION5 IS 'NO DATA'
DEFAULT FOR POSITION6 IS 'NO DATA'
DEFAULT FOR POSITION7 IS 'NO DATA'
DEFAULT FOR POSITION8 IS 'NO DATA'
DEFAULT FOR POSITION9 IS 'NO DATA'
DEFAULT FOR LINEREPEATNO IS 1

IF OPERATION='FILETYPE' THEN
  OUTPUTVALUE='DELIMITED'
ELSE IF OPERATION='DELIMITER' THEN
  OUTPUTVALUE='|'
ELSE IF OPERATION='READ' THEN
  OUTPUTVALUE='NONE'
ELSE IF OPERATION = 'NUMBEROFBUSINESSOBJECTS' THEN
  (
  OUTPUTVALUE = '1'
  RETURN OUTPUTVALUE
  )
ELSE IF OPERATION = 'METADATALINEINFORMATION' THEN
   (
                METADATA1[1]  = 'PersonAccrualDetail' /*FileName*/ /*Reserved*/
                METADATA1[2]  = 'PersonAccrualDetail' /*FileDiscriminator*/ /*Reserved*/
                METADATA1[3]  = 'AccrualType'
                METADATA1[4]  = 'AdjustmentReason'
                METADATA1[5]  = 'PersonNumber'
                METADATA1[6]  = 'PlanName'
                METADATA1[7]  = 'Value'
                METADATA1[8]  = 'WorkTermsNumber'
                METADATA1[9]  = 'ProcdDate'
                METADATA1[10] = 'SourceSystemOwner'
                METADATA1[11] = 'SourceSystemId'

RETURN METADATA1
)

ELSE IF OPERATION='MAP' THEN
   /*HDL Related Outputs*/
  (
                IF LINEREPEATNO = 1 THEN
                (
                        IF POSITION3 <> 'PersonNumber' THEN
                        (
                                LINEREPEAT = 'Y'
                                FileName = 'PersonAccrualDetail'
                                BusinessOperation = 'MERGE'
                                FileDiscriminator = 'PersonAccrualDetail'
                                AccrualType = trim(POSITION1)
                                AdjustmentReason = trim(POSITION2)
                                PersonNumber = trim(POSITION3)
                                PlanName = trim(POSITION4)
                                Value = trim(POSITION5)
```

```
                                    WorkTermsNumber = trim(POSITION6)
                                    ProcdDate = trim(POSITION7)
                                    SourceSystemOwner = trim(POSITION8)
                                    SourceSystemId = trim(POSITION9)


                                    RETURN
BusinessOperation,FileName,FileDiscriminator,AccrualType,AdjustmentReason,PersonNumber,PlanName,Value,WorkTermsNumber,ProcdDate,SourceSystemOwner,SourceSystemId,LINEREPEAT,LINEREPEATNO
                          )
                  )
         )

ELSE
  OUTPUTVALUE='NONE'
RETURN OUTPUTVALUE
/* End Formula Text */
```



*Formula Name GENERATE_PERSONACCRUALENTRY_HDL_FROM_TXT

Type HCM Data Loader

Effective As-of Date 1/1/51

Effective Start Date 1/1/51

Effective End Date

Description This formula will create PersonAccrualDetail HDL File from TXT File

Compile Status ✓

Formula Text

```
/***********************************************************
* FORMULA NAME: GENERATE_PERSONACCRUALENTRY_HDL_FROM_TXT
* FORMULA TYPE: HCM Data Loader
* DESCRIPTION: This formula will create PersonAccrualDetail HDL File from TXT File
* CHANGE HISTORY:
*************************************************************
Version              Date          Created By          Comments
-----------------------------------------------------------------
1.0                  14-Jul-2020   Ashish Harbhajanka   Initial Version
**************************************************************/
/* Inputs  */
INPUTS ARE  OPERATION (text), LINENO (number),  LINEREPEATNO (number),POSITION1 (text), POSITION2 (text), POSITION3 (te
POSITION5 (text), POSITION6 (text), POSITION7 (text), POSITION8 (text), POSITION9 (text)

DEFAULT FOR POSITION1 IS 'NO DATA'
DEFAULT FOR POSITION2 IS 'NO DATA'
DEFAULT FOR POSITION3 IS 'NO DATA'
DEFAULT FOR POSITION4 IS 'NO DATA'
DEFAULT FOR POSITION5 IS 'NO DATA'
DEFAULT FOR POSITION6 IS 'NO DATA'
DEFAULT FOR POSITION7 IS 'NO DATA'
DEFAULT FOR POSITION8 IS 'NO DATA'
```

Database Items

Search Database Item Name

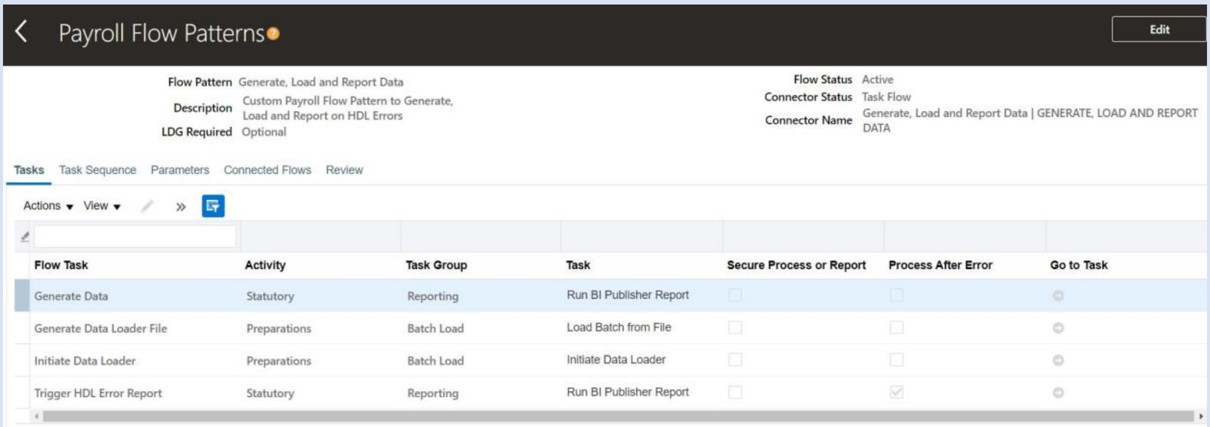
Database Item Name	Data Type	Description
No data to display.		

Now we will start configuring the Custom Payroll Flow Pattern named “Generate and Load Data”

Creating Custom Payroll Flow Pattern “Generate Load and Report Data”

Navigation-> ***My Client Groups -> Payroll ->(Administration) Payroll Flow Patterns -> Copy (Load Data from File)***

Once we copy the flow from “Load Data From File” we should give a new name to the custom flow (“Generate Load and Report Data”) and once done we should add a new task name “Run BI Publisher Report” and rename to “Generate Data” as shown



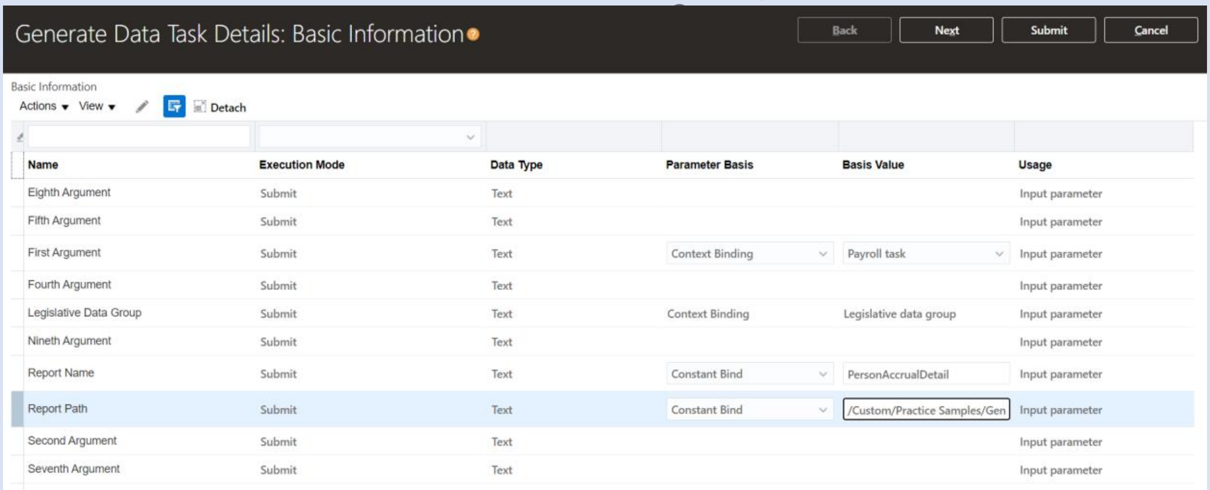
Flow Pattern: Generate, Load and Report Data
Description: Custom Payroll Flow Pattern to Generate, Load and Report on HDL Errors
LDG Required: Optional
Flow Status: Active
Connector Status: Task Flow
Connector Name: Generate, Load and Report Data | GENERATE, LOAD AND REPORT DATA

Flow Task	Activity	Task Group	Task	Secure Process or Report	Process After Error	Go to Task
Generate Data	Statutory	Reporting	Run BI Publisher Report	□	□	○
Generate Data Loader File	Preparations	Batch Load	Load Batch from File	□	□	○
Initiate Data Loader	Preparations	Batch Load	Initiate Data Loader	□	□	○
Trigger HDL Error Report	Statutory	Reporting	Run BI Publisher Report	□	☑	○

We will now need to set/edit the properties of “Generate Data” Task (once you click on the “Go To Task” you would be taken to the parameters page. The details of the parameters are mentioned below

Name	Parameter Basis	Basis Value
First Argument	Context Binding	Payroll Task
Legislative Data Group	Context Binding	Legislative data group
Report Name	Constant Bind	PersonAccrualDetail
Report Path	Constant Bind	/Custom/Practice Samples/GenerateData.xdo

*Note: Report Name is the name of the Template used in Report

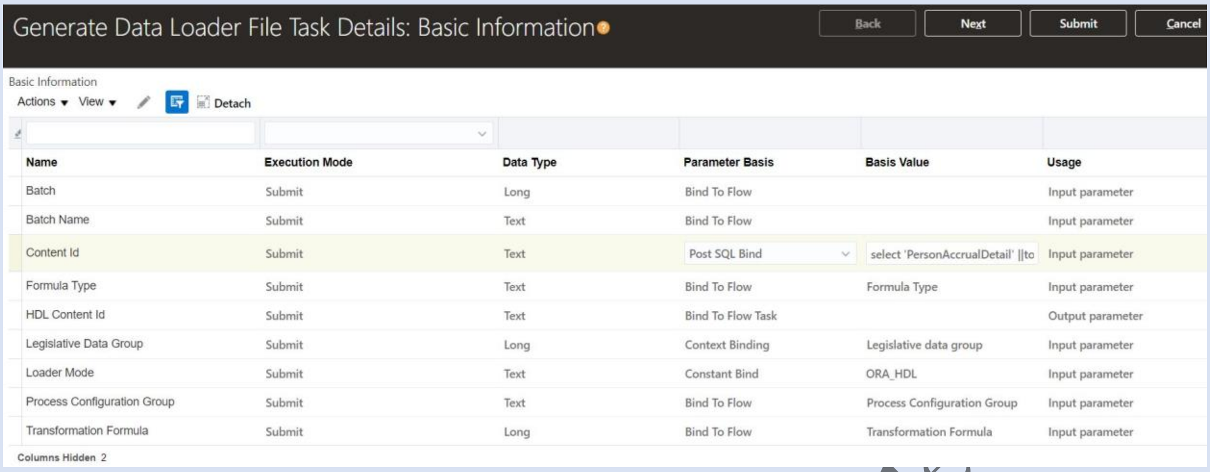


Name	Execution Mode	Data Type	Parameter Basis	Basis Value	Usage
Eighth Argument	Submit	Text			Input parameter
Fifth Argument	Submit	Text			Input parameter
First Argument	Submit	Text	Context Binding	Payroll task	Input parameter
Fourth Argument	Submit	Text			Input parameter
Legislative Data Group	Submit	Text	Context Binding	Legislative data group	Input parameter
Nineth Argument	Submit	Text			Input parameter
Report Name	Submit	Text	Constant Bind	PersonAccrualDetail	Input parameter
Report Path	Submit	Text	Constant Bind	/Custom/Practice Samples/Gen	Input parameter
Second Argument	Submit	Text			Input parameter
Seventh Argument	Submit	Text			Input parameter

Nest we would be required to change the Parameter properties of “Content ID” parameter of “Generate Data Loader File” Task

Old Value		
Name	Parameter Basis	Value
Content Id	Bind To Flow	Content Id
New Value		
Name	Parameter Basis	Value
Content Id	Post SQL Bind	select 'PersonAccrualDetail'||to_char(CALL_ID) from pay_flow_task_instances fti,pay_flow_tasks_vl ft,pay_requests r where ft.flow_task_name = 'Generate Data' and ft.base_flow_task_id = fti.base_flow_task_id and fti.flow_task_instance_id = r.flow_task_instance_id and

		r.call_type= 'ESS' and fti.flow_instance_id = :pFlowInstanceId

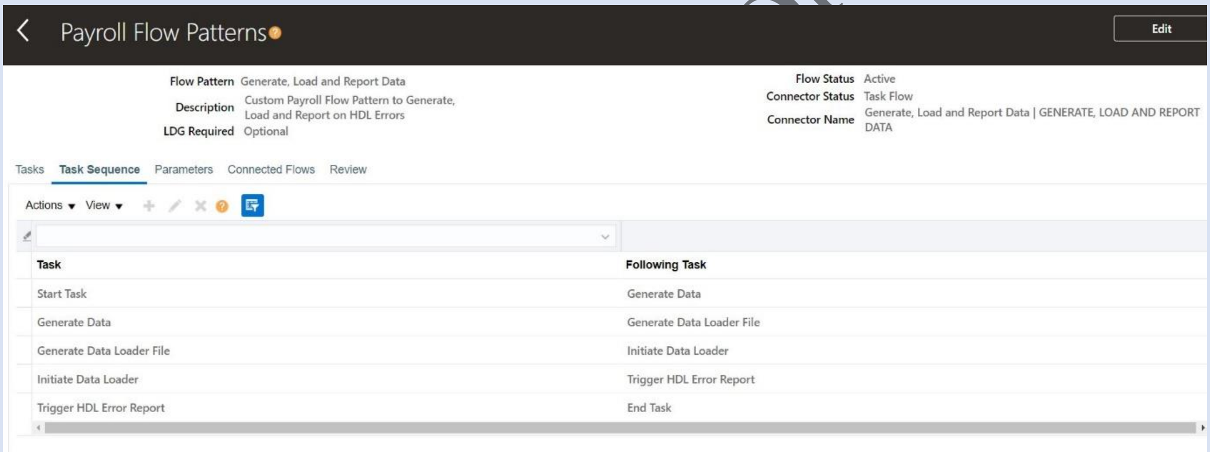


Generate Data Loader File Task Details: Basic Information

Name	Execution Mode	Data Type	Parameter Basis	Basis Value	Usage
Batch	Submit	Long	Bind To Flow		Input parameter
Batch Name	Submit	Text	Bind To Flow		Input parameter
Content Id	Submit	Text	Post SQL Bind	select 'PersonAccrualDetail' ||to	Input parameter
Formula Type	Submit	Text	Bind To Flow	Formula Type	Input parameter
HDL Content Id	Submit	Text	Bind To Flow Task		Output parameter
Legislative Data Group	Submit	Long	Context Binding	Legislative data group	Input parameter
Loader Mode	Submit	Text	Constant Bind	ORA_HDL	Input parameter
Process Configuration Group	Submit	Text	Bind To Flow	Process Configuration Group	Input parameter
Transformation Formula	Submit	Long	Bind To Flow	Transformation Formula	Input parameter

Columns Hidden 2

Now, we should arrange the Task Sequence as show in below image:



Payroll Flow Patterns

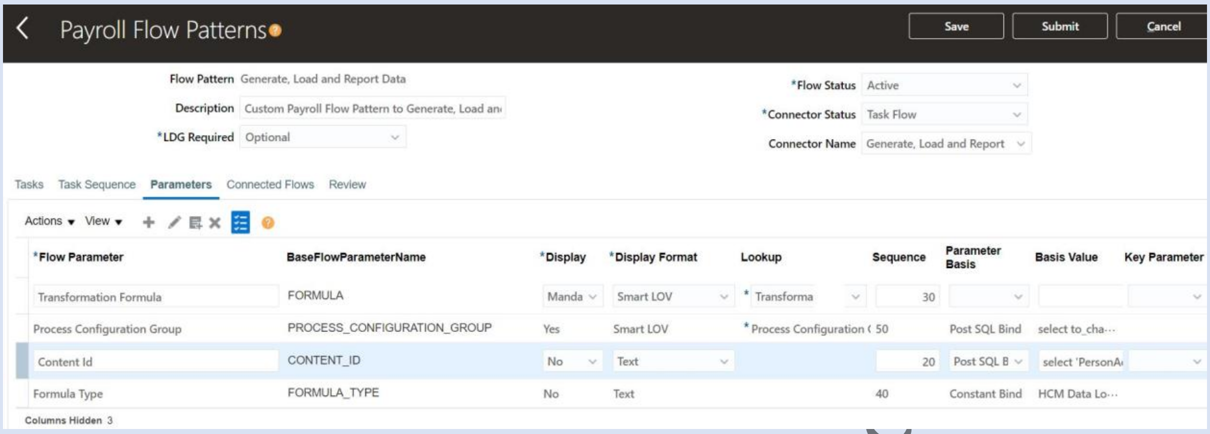
Flow Pattern Generate, Load and Report Data
Description Custom Payroll Flow Pattern to Generate, Load and Report on HDL Errors
LDG Required Optional
Flow Status Active
Connector Status Task Flow
Connector Name Generate, Load and Report Data | GENERATE, LOAD AND REPORT DATA

Task	Following Task
Start Task	Generate Data
Generate Data	Generate Data Loader File
Generate Data Loader File	Initiate Data Loader
Initiate Data Loader	Trigger HDL Error Report
Trigger HDL Error Report	End Task

We will also need to change the properties of “Content Id” parameter of payroll flow

Old Value			
*Flow Parameter	Display	Parameter Basis	Basis Value
Content Id	Mandatory		
New Value			
*Flow Parameter	Display	Parameter Basis	Basis Value
Content Id	No	Post SQL Bind	select 'PersonAccrualDetail' ||to_char(r.call_id) from pay_flow_task_instances fti, pay_flow_tasks_vl ft, pay_requests r where ft.flow_task_name = 'Generate Data' and ft.base_flow_task_id = fti.base_flow_task_id

			and fti.flow_task_instance_id = r.flow_task_instance_id and r.call_type= 'ESS' and fti.flow_instance_id = :pFlowInstanceId

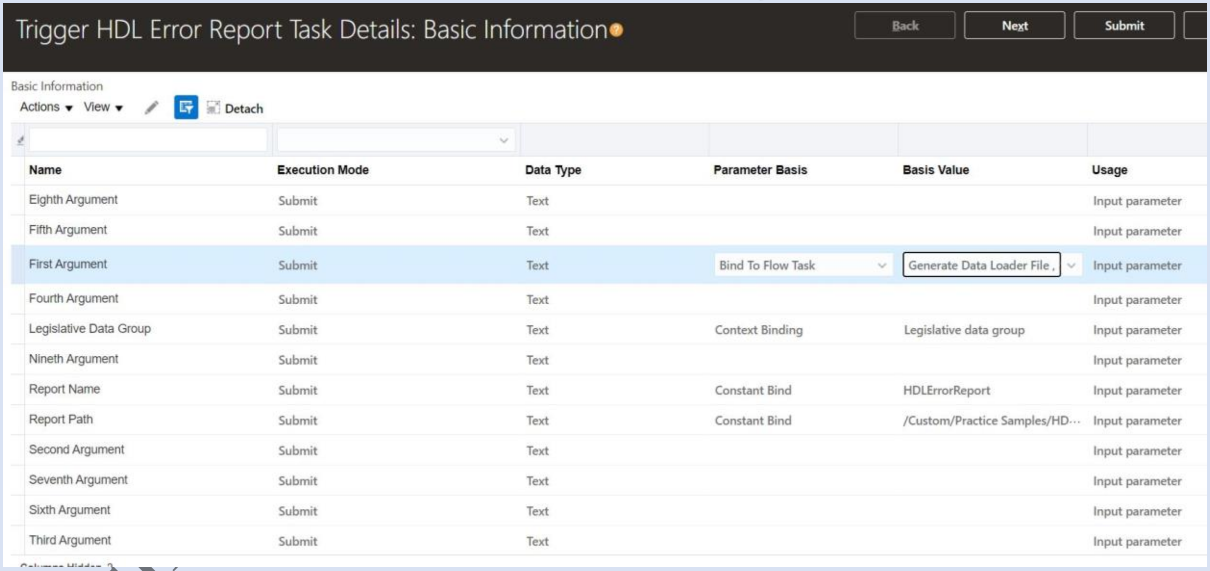


Flow Pattern: Generate, Load and Report Data
Description: Custom Payroll Flow Pattern to Generate, Load an
*LDG Required: Optional
*Flow Status: Active
*Connector Status: Task Flow
Connector Name: Generate, Load and Report

*Flow Parameter	BaseFlowParameterName	*Display	*Display Format	Lookup	Sequence	Parameter Basis	Basis Value	Key Parameter
Transformation Formula	FORMULA	Manda	Smart LOV	* Transforma	30			
Process Configuration Group	PROCESS_CONFIGURATION_GROUP	Yes	Smart LOV	* Process Configuration (	50	Post SQL Bind	select to_cha···	
Content Id	CONTENT_ID	No	Text		20	Post SQL B	select 'PersonA	
Formula Type	FORMULA_TYPE	No	Text		40	Constant Bind	HCM Data Lo···	

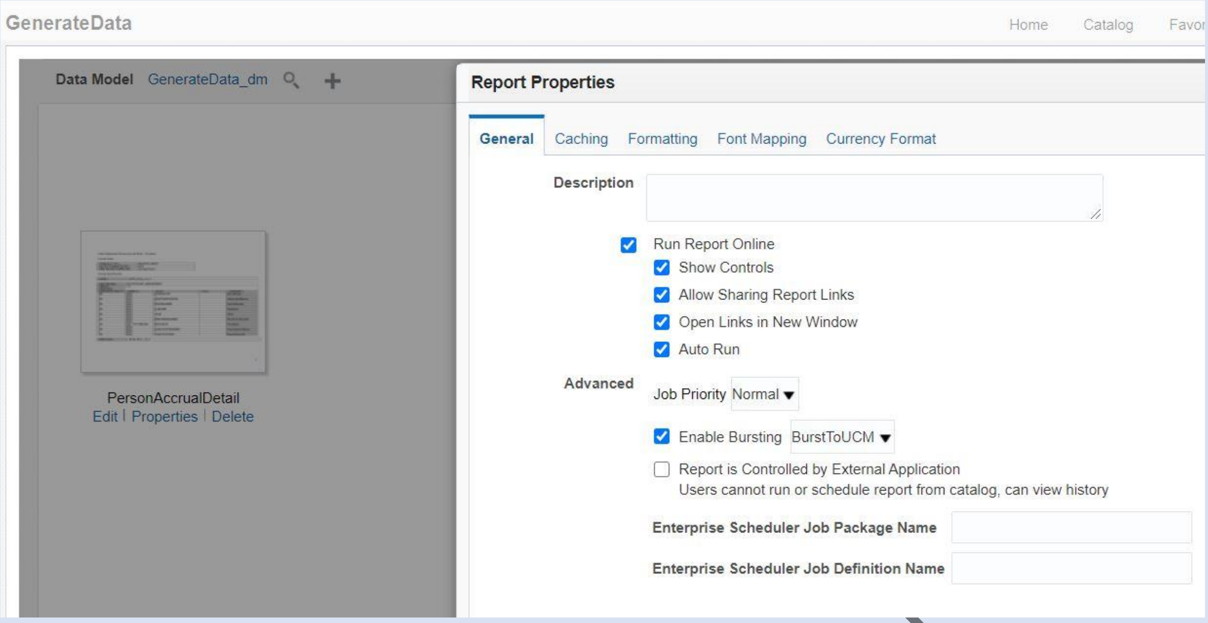
Columns Hidden 3

We would also need to make sure that the “First Argument” parameter for “Trigger HDL Error Report” is set to “Generate Data Loader File, Submit, HDL Content ID”



Name	Execution Mode	Data Type	Parameter Basis	Basis Value	Usage
Eighth Argument	Submit	Text			Input parameter
Fifth Argument	Submit	Text			Input parameter
First Argument	Submit	Text	Bind To Flow Task	Generate Data Loader File ,	Input parameter
Fourth Argument	Submit	Text			Input parameter
Legislative Data Group	Submit	Text	Context Binding	Legislative data group	Input parameter
Nineth Argument	Submit	Text			Input parameter
Report Name	Submit	Text	Constant Bind	HDLErrorReport	Input parameter
Report Path	Submit	Text	Constant Bind	/Custom/Practice Samples/HD···	Input parameter
Second Argument	Submit	Text			Input parameter
Seventh Argument	Submit	Text			Input parameter
Sixth Argument	Submit	Text			Input parameter
Third Argument	Submit	Text			Input parameter

Now as a last part of the setup we should check that the “Enable Bursting” Flag under ***Report->Properties (of Generate Data Report)*** is set



Report Properties

General | Caching | Formatting | Font Mapping | Currency Format

Description

☑ Run Report Online
☑ Show Controls
☑ Allow Sharing Report Links
☑ Open Links in New Window
☑ Auto Run

Advanced: Job Priority Normal
☑ Enable Bursting BurstToUCM
□ Report is Controlled by External Application
Users cannot run or schedule report from catalog, can view history

Enterprise Scheduler Job Package Name

Enterprise Scheduler Job Definition Name

We would also need to enable bursting for the HDL Error Report

SQL used for HDLErrorReport

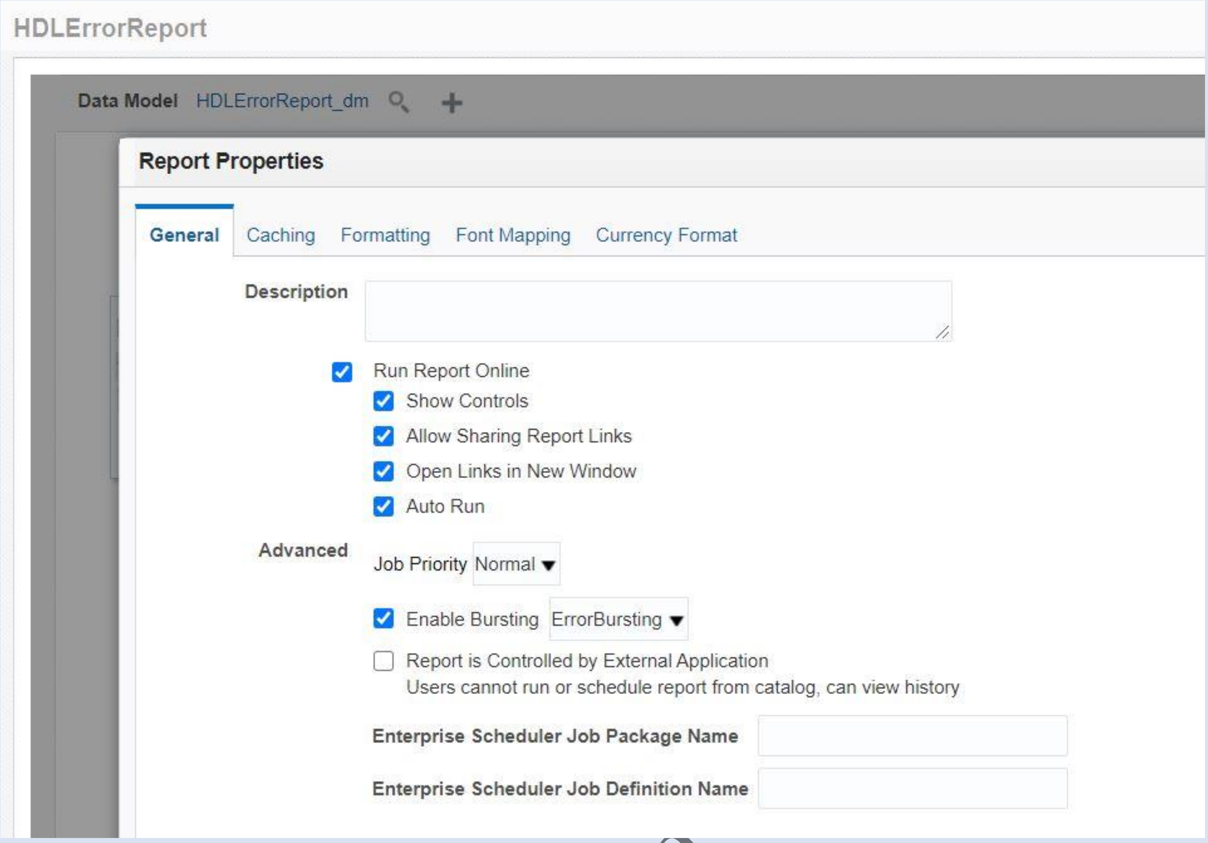
```
SELECT '001' report_key, fr.key_source_owner, fr.key_source_id, l.msg_text
  ,SUBSTR(fl.TEXT,INSTR(fl.TEXT,'|',1,2)+1,INSTR(fl.TEXT,'|',1,3)-INSTR(fl.TEXT,'|',1,2)-1)
"CONTEXT"
  ,fl.TEXT
  FROM   fusion.hrc_dl_message_lines     l
  ,      fusion.hrc_dl_data_set_bus_objs  bo
  ,      fusion.hrc_dl_data_sets          ds
  ,      fusion.hrc_dl_stg_physical_lines     pl
  ,      fusion.hrc_dl_stg_file_rows          fr
  ,      fusion.hrc_dl_file_lines         fl
  WHERE  l.message_source_table_name = 'HRC_DL_PHYSICAL_LINES'
  AND    bo.data_set_bus_obj_id      = l.data_set_bus_obj_id
  AND    ds.data_set_id          = bo.data_set_id
  AND    pl.physical_line_id                 = l.message_source_line_id
  AND    fr.row_id                           = pl.row_id
  AND    fl.line_id                          = fr.line_id
  AND   (ds.ucm_content_id = :p_ucm_content_id
                    OR ds.data_set_name = :p_data_set_name)
  --
  UNION
  --
  SELECT '001' report_key,fr.key_source_owner, fr.key_source_id, l.msg_text
  ,SUBSTR(fl.TEXT,INSTR(fl.TEXT,'|',1,2)+1,INSTR(fl.TEXT,'|',1,3)-INSTR(fl.TEXT,'|',1,2)-1)
"CONTEXT"
  ,fl.TEXT
  FROM   fusion.hrc_dl_message_lines     l
  ,      fusion.hrc_dl_data_set_bus_objs  bo
  ,      fusion.hrc_dl_data_sets          ds
  ,      fusion.hrc_dl_stg_logical_lines     ll
  ,      fusion.hrc_dl_stg_file_rows         fr
  ,      fusion.hrc_dl_file_lines        fl
  WHERE  l.message_source_table_name = 'HRC_DL_LOGICAL_LINES'
  AND    bo.data_set_bus_obj_id      = l.data_set_bus_obj_id
  AND    ds.data_set_id              = bo.data_set_id
  AND    ll.logical_line_id                     = l.message_source_line_id
  AND    fr.logical_line_id                     = ll.logical_line_id
  AND    fl.line_id                             = fr.line_id
  AND   (ds.ucm_content_id = :p_ucm_content_id
                         OR ds.data_set_name = :p_data_set_name)
  --
  UNION
  --
SELECT '001' report_key,fr.key_source_owner, fr.key_source_id, l.msg_text
  ,SUBSTR(fl.TEXT,INSTR(fl.TEXT,'|',1,2)+1,INSTR(fl.TEXT,'|',1,3)-INSTR(fl.TEXT,'|',1,2)-1)
"CONTEXT"
  ,fl.TEXT
  FROM   fusion.hrc_dl_message_lines     l
  ,      fusion.hrc_dl_data_set_bus_objs  bo
  ,      fusion.hrc_dl_data_sets          ds
  ,      fusion.hrc_dl_stg_file_rows             fr
  ,      fusion.hrc_dl_file_lines       fl
  WHERE  l.message_source_table_name = 'HRC_DL_FILE_ROWS'
  AND    bo.data_set_bus_obj_id      = l.data_set_bus_obj_id
  AND    ds.data_set_id              = bo.data_set_id
  AND    fr.row_id                                          = l.message_source_line_id
  AND    fl.line_id                             = fr.line_id
  AND   (ds.ucm_content_id = :p_ucm_content_id
                         OR ds.data_set_name = :p_data_set_name)
   --
   UNION
   ---
   SELECT '001' report_key, fr.key_source_owner, fr.key_source_id, l.msg_text
  ,SUBSTR(fl.TEXT,INSTR(fl.TEXT,'|',1,2)+1,INSTR(fl.TEXT,'|',1,3)-INSTR(fl.TEXT,'|',1,2)-1)
"CONTEXT"
  ,fl.TEXT
  FROM   fusion.hrc_dl_message_lines    l
  ,      fusion.hrc_dl_data_set_bus_objs  bo
  ,      fusion.hrc_dl_data_sets          ds
  ,      fusion.hrc_dl_physical_lines     pl
  ,      fusion.hrc_dl_file_rows      fr
  ,      fusion.hrc_dl_file_lines        fl
  WHERE  l.message_source_table_name = 'HRC_DL_PHYSICAL_LINES'
  AND    bo.data_set_bus_obj_id      = l.data_set_bus_obj_id
  AND    ds.data_set_id              = bo.data_set_id
  AND    pl.physical_line_id       = l.message_source_line_id
  AND    fr.row_id                 = pl.row_id
  AND    fl.line_id                = fr.line_id
  AND   (ds.ucm_content_id = :p_ucm_content_id
     OR ds.data_set_name = :p_data_set_name)
  --
  UNION
  --
  SELECT '001' report_key,fr.key_source_owner, fr.key_source_id, l.msg_text
  ,SUBSTR(fl.TEXT,INSTR(fl.TEXT,'|',1,2)+1,INSTR(fl.TEXT,'|',1,3)-INSTR(fl.TEXT,'|',1,2)-1)
"CONTEXT"
  ,fl.TEXT
  FROM   fusion.hrc_dl_message_lines    l
  ,      fusion.hrc_dl_data_set_bus_objs  bo
  ,      fusion.hrc_dl_data_sets          ds
  ,      fusion.hrc_dl_logical_lines      ll
  ,      fusion.hrc_dl_file_rows          fr
  ,      fusion.hrc_dl_file_lines         fl
  WHERE  l.message_source_table_name = 'HRC_DL_LOGICAL_LINES'
  AND    bo.data_set_bus_obj_id      = l.data_set_bus_obj_id
  AND    ds.data_set_id              = bo.data_set_id
  AND    ll.logical_line_id        = l.message_source_line_id
  AND    fr.logical_line_id        = ll.logical_line_id
  AND    fl.line_id                = fr.line_id
  AND   (ds.ucm_content_id = :p_ucm_content_id
    OR ds.data_set_name = :p_data_set_name)
  --
  UNION
  --
SELECT '001' report_key,fr.key_source_owner, fr.key_source_id, l.msg_text
  ,SUBSTR(fl.TEXT,INSTR(fl.TEXT,'|',1,2)+1,INSTR(fl.TEXT,'|',1,3)-INSTR(fl.TEXT,'|',1,2)-1)
"CONTEXT"
  ,fl.TEXT
  FROM   fusion.hrc_dl_message_lines    l
  ,      fusion.hrc_dl_data_set_bus_objs  bo
  ,      fusion.hrc_dl_data_sets          ds
  ,      fusion.hrc_dl_file_rows        fr
  ,      fusion.hrc_dl_file_lines       fl
  WHERE  l.message_source_table_name = 'HRC_DL_FILE_ROWS'
  AND    bo.data_set_bus_obj_id      = l.data_set_bus_obj_id
  AND    ds.data_set_id              = bo.data_set_id
  AND    fr.row_id           = l.message_source_line_id
  AND    fl.line_id                = fr.line_id
  AND   (ds.ucm_content_id = :p_ucm_content_id
    OR ds.data_set_name = :p_data_set_name)
```

Also the ErrorBursting SQL should be as below:

Bursting SQL for HDLErrorReport

```
SELECT '001'  KEY,
'XLSX'                OUTPUT_FORMAT,
'EMAIL'               DEL_CHANNEL,
'HDLErrorReport'  OUTPUT_NAME,
'ashish1234u@gmail.com'      parameter1,
'ashish.h.oracle@gmail.com'       parameter2,
'donotreply@oracledemos.com'    parameter3,
'HDL Data Load Error Report'                              parameter4,
'HDL Data Load Error Report.'|| chr(10)|| chr(10) ||'*Note: This is a system generated mail. Please
do not reply.'       parameter5,
'true'         parameter6,
'donotreply@oracledemos.com'   parameter7
FROM
dual
```

Also, bursting should be enabled for HDLErrorReport



Description

☑ Run Report Online

☑ Show Controls

☑ Allow Sharing Report Links

☑ Open Links in New Window

☑ Auto Run

Advanced

Job Priority: Normal

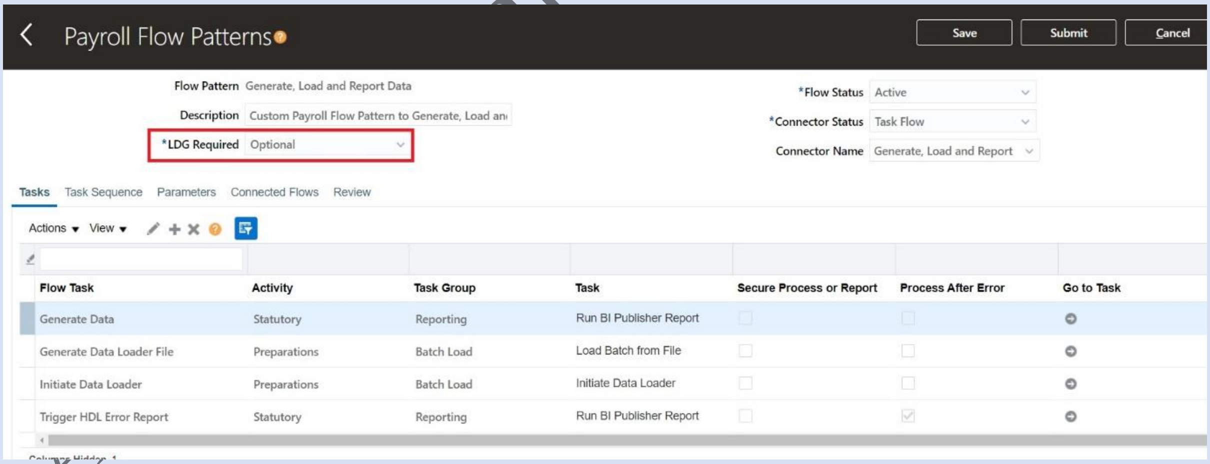
☑ Enable Bursting: ErrorBursting

□ Report is Controlled by External Application
Users cannot run or schedule report from catalog, can view history

Enterprise Scheduler Job Package Name

Enterprise Scheduler Job Definition Name

As a last step please ensure that the *LDG Required Attribute is set to optional (By default it is set to "Yes". If it is so then the same should be changed as shown below:



Flow Pattern: Generate, Load and Report Data

Description: Custom Payroll Flow Pattern to Generate, Load an

*LDG Required: Optional

*Flow Status: Active

*Connector Status: Task Flow

Connector Name: Generate, Load and Report

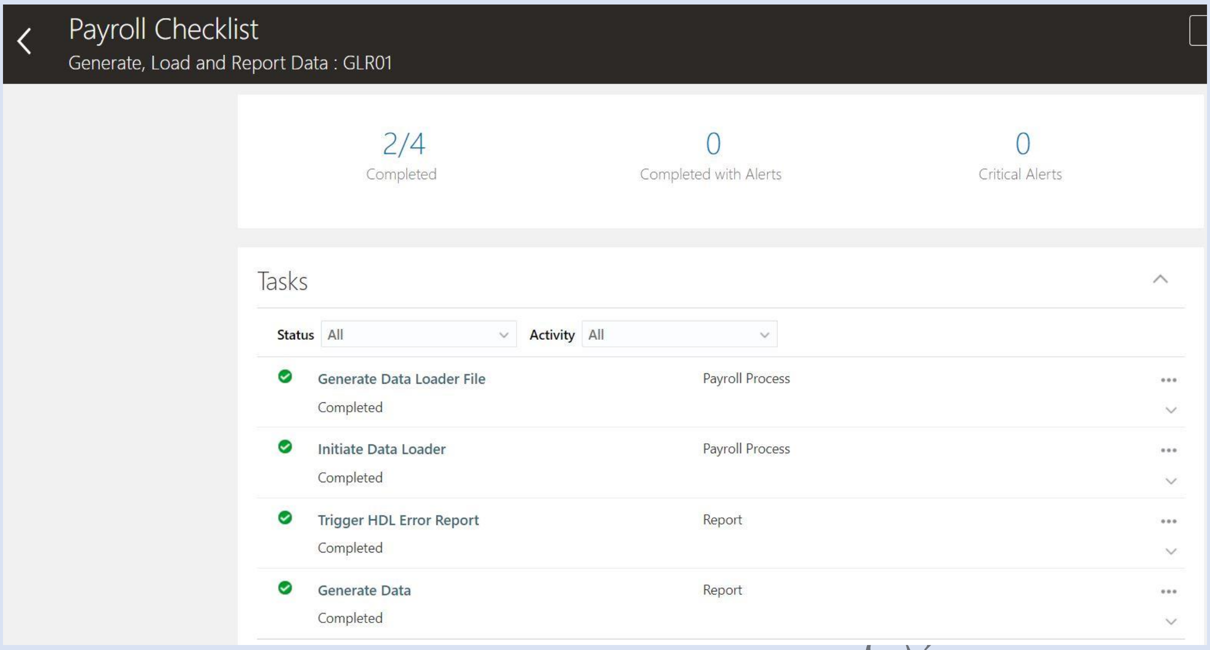
Flow Task	Activity	Task Group	Task	Secure Process or Report	Process After Error	Go to Task
Generate Data	Statutory	Reporting	Run BI Publisher Report	□	□	➲
Generate Data Loader File	Preparations	Batch Load	Load Batch from File	□	□	➲
Initiate Data Loader	Preparations	Batch Load	Initiate Data Loader	□	□	➲
Trigger HDL Error Report	Statutory	Reporting	Run BI Publisher Report	□	☑	➲

Now, that all setups are done we should try running the payroll flow and verify results

Verification

We will submit the newly created Custom Payroll Flow Pattern.

Navigation: My Client Groups -> Payroll-> (Flow Submission and Results) Submit a Flow -> Generate and Load Data



Payroll Checklist

Generate, Load and Report Data : GLR01

2/4 Completed

0 Completed with Alerts

0 Critical Alerts

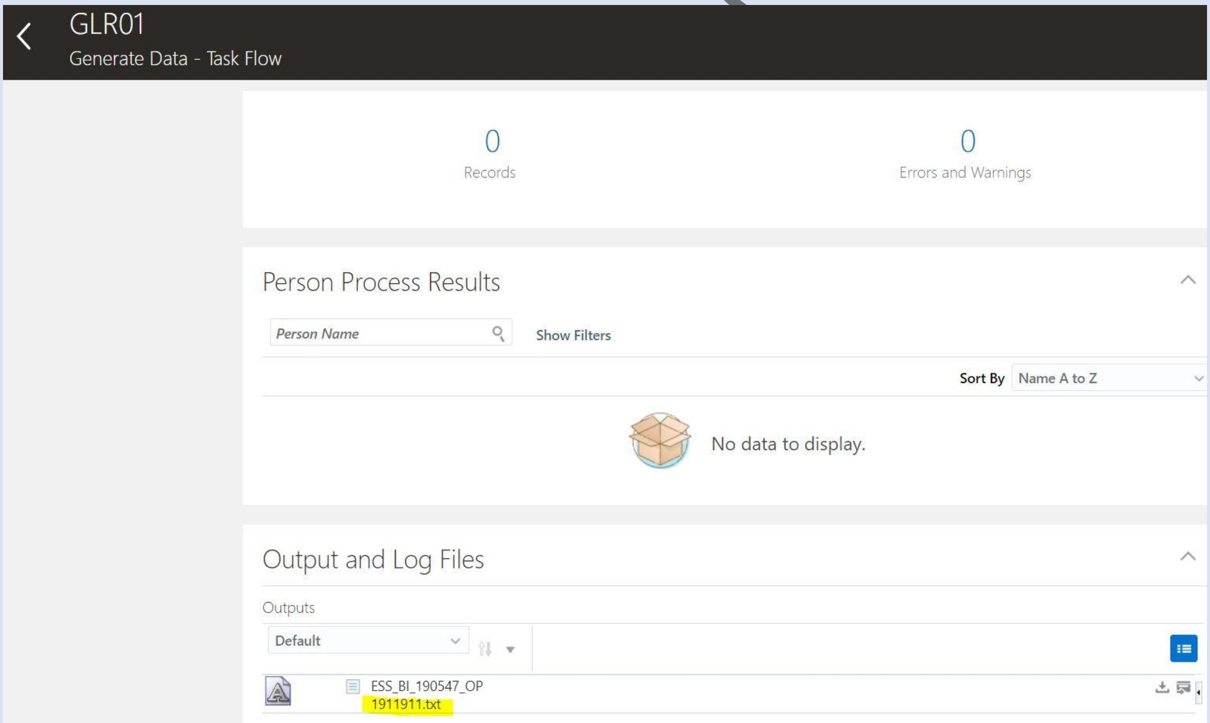
Tasks

Status: All

Activity: All

Generate Data Loader File Completed	Payroll Process	
Initiate Data Loader Completed	Payroll Process	
Trigger HDL Error Report Completed	Report	
Generate Data Completed	Report	

If we click on the "Generate Data" task we will find some details of the ESS process id associated with the task.



GLR01

Generate Data - Task Flow

0 Records

0 Errors and Warnings

Person Process Results

Person Name

Show Filters

Sort By: Name A to Z

No data to display.

Output and Log Files

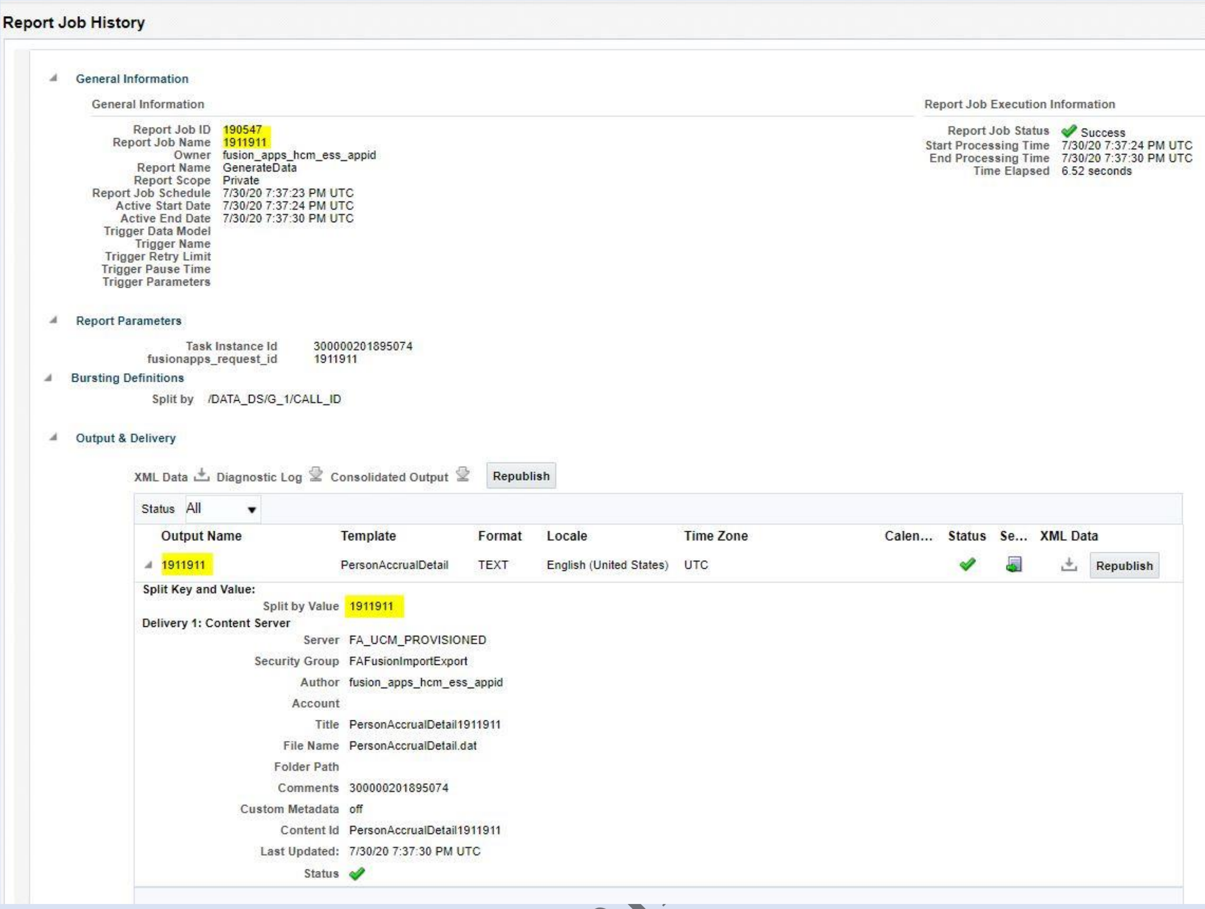
Outputs

Default

ESS_BI_190547_OP 1911911.txt

We could clearly see that the process-id is 1911911.

We can search for this ESS request id from BI Report Job history with Job name as 1911911



Report Job History

General Information

General Information

Report Job ID: 190547
Report Job Name: 1911911
Owner: fusion_apps_hcm_ess_appid
Report Name: GenerateData
Report Scope: Private
Report Job Schedule: 7/30/20 7:37:23 PM UTC
Active Start Date: 7/30/20 7:37:24 PM UTC
Active End Date: 7/30/20 7:37:30 PM UTC
Trigger Data Model
Trigger Name
Trigger Retry Limit
Trigger Pause Time
Trigger Parameters

Report Job Execution Information

Report Job Status: ✓ Success
Start Processing Time: 7/30/20 7:37:24 PM UTC
End Processing Time: 7/30/20 7:37:30 PM UTC
Time Elapsed: 6.52 seconds

Report Parameters

Task Instance Id: 300000201895074
fusionapps_request_id: 1911911

Bursting Definitions

Split by: /DATA_DS/G_1/CALL_ID

Output & Delivery

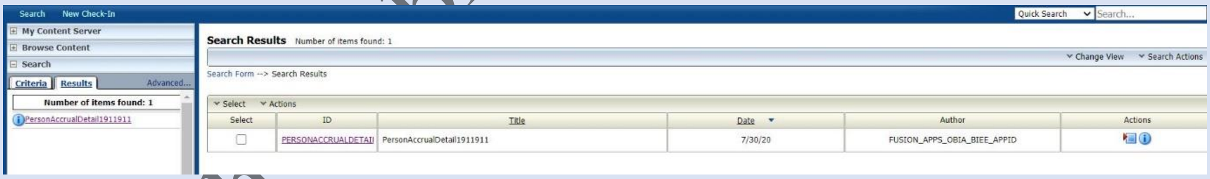
Status: All

Output Name	Template	Format	Locale	Time Zone	Calen...	Status	Se...	XML Data	
1911911	PersonAccrualDetail	TEXT	English (United States)	UTC		✓			Republish

Split Key and Value:
Split by Value: 1911911
Delivery 1: Content Server
Server: FA_UCM_PROVISIONED
Security Group: FAFusionImportExport
Author: fusion_apps_hcm_ess_appid
Account
Title: PersonAccrualDetail1911911
File Name: PersonAccrualDetail.dat
Folder Path
Comments: 300000201895074
Custom Metadata: off
Content Id: PersonAccrualDetail1911911
Last Updated: 7/30/20 7:37:30 PM UTC
Status: ✓

From the above we can see that the Content ID is PersonAccrualDetail1911911

We will search for this content id in Content Server.



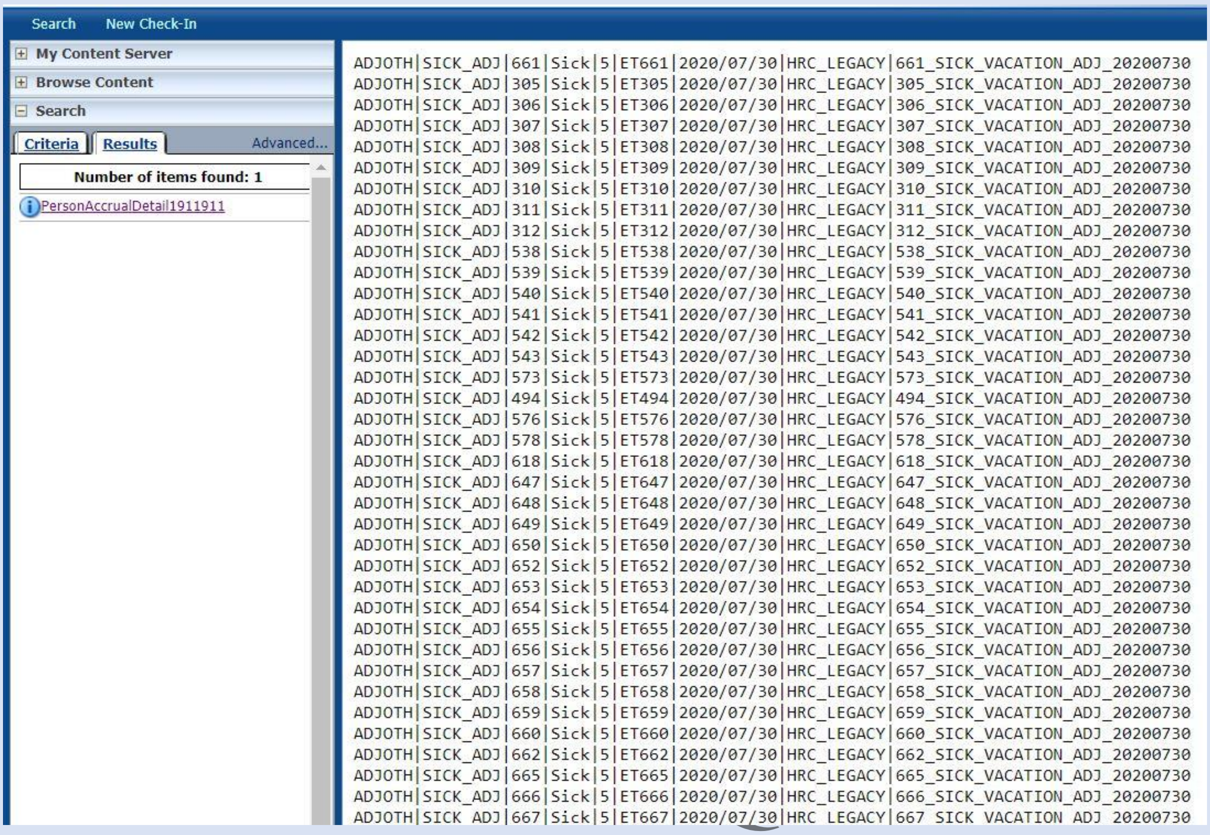
Number of items found: 1
PersonAccrualDetail1911911

Search Results Number of items found: 1

Search Form --> Search Results

Select	ID	Title	Date	Author	Actions
□	PERSONACCRUALDETAI	PersonAccrualDetail1911911	7/30/20	FUSION_APPS_OBIA_BIEE_APPID	

And if we click on the file content detail we could see the content of data file

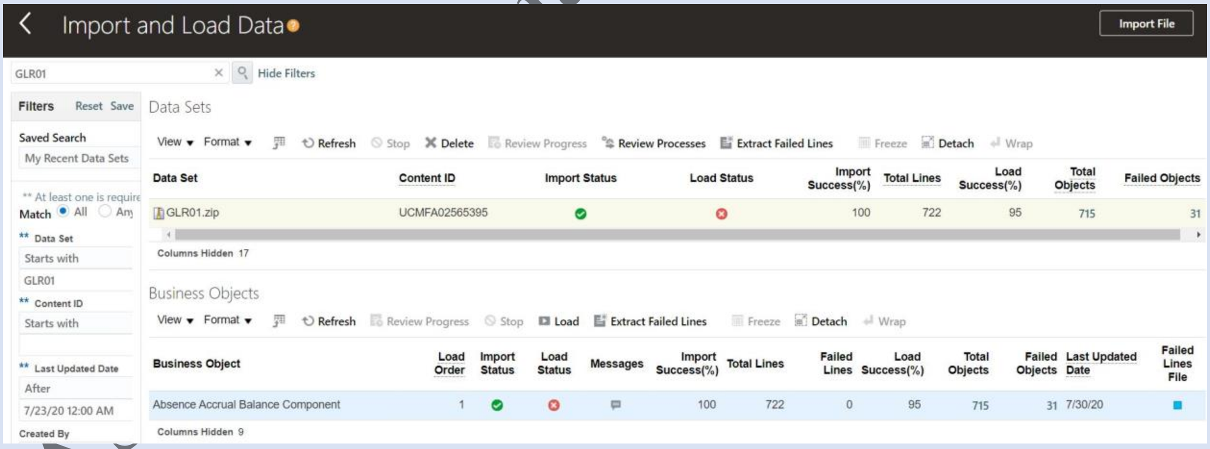


Number of items found: 1

PersonAccrualDetail1911911

```
ADJOTH|SICK_ADJ|661|Sick|5|ET661|2020/07/30|HRC_LEGACY|661_SICK_VACATION_ADJ_20200730
ADJOTH|SICK_ADJ|305|Sick|5|ET305|2020/07/30|HRC_LEGACY|305_SICK_VACATION_ADJ_20200730
ADJOTH|SICK_ADJ|306|Sick|5|ET306|2020/07/30|HRC_LEGACY|306_SICK_VACATION_ADJ_20200730
ADJOTH|SICK_ADJ|307|Sick|5|ET307|2020/07/30|HRC_LEGACY|307_SICK_VACATION_ADJ_20200730
ADJOTH|SICK_ADJ|308|Sick|5|ET308|2020/07/30|HRC_LEGACY|308_SICK_VACATION_ADJ_20200730
ADJOTH|SICK_ADJ|309|Sick|5|ET309|2020/07/30|HRC_LEGACY|309_SICK_VACATION_ADJ_20200730
ADJOTH|SICK_ADJ|310|Sick|5|ET310|2020/07/30|HRC_LEGACY|310_SICK_VACATION_ADJ_20200730
ADJOTH|SICK_ADJ|311|Sick|5|ET311|2020/07/30|HRC_LEGACY|311_SICK_VACATION_ADJ_20200730
ADJOTH|SICK_ADJ|312|Sick|5|ET312|2020/07/30|HRC_LEGACY|312_SICK_VACATION_ADJ_20200730
ADJOTH|SICK_ADJ|538|Sick|5|ET538|2020/07/30|HRC_LEGACY|538_SICK_VACATION_ADJ_20200730
ADJOTH|SICK_ADJ|539|Sick|5|ET539|2020/07/30|HRC_LEGACY|539_SICK_VACATION_ADJ_20200730
ADJOTH|SICK_ADJ|540|Sick|5|ET540|2020/07/30|HRC_LEGACY|540_SICK_VACATION_ADJ_20200730
ADJOTH|SICK_ADJ|541|Sick|5|ET541|2020/07/30|HRC_LEGACY|541_SICK_VACATION_ADJ_20200730
ADJOTH|SICK_ADJ|542|Sick|5|ET542|2020/07/30|HRC_LEGACY|542_SICK_VACATION_ADJ_20200730
ADJOTH|SICK_ADJ|543|Sick|5|ET543|2020/07/30|HRC_LEGACY|543_SICK_VACATION_ADJ_20200730
ADJOTH|SICK_ADJ|573|Sick|5|ET573|2020/07/30|HRC_LEGACY|573_SICK_VACATION_ADJ_20200730
ADJOTH|SICK_ADJ|494|Sick|5|ET494|2020/07/30|HRC_LEGACY|494_SICK_VACATION_ADJ_20200730
ADJOTH|SICK_ADJ|576|Sick|5|ET576|2020/07/30|HRC_LEGACY|576_SICK_VACATION_ADJ_20200730
ADJOTH|SICK_ADJ|578|Sick|5|ET578|2020/07/30|HRC_LEGACY|578_SICK_VACATION_ADJ_20200730
ADJOTH|SICK_ADJ|618|Sick|5|ET618|2020/07/30|HRC_LEGACY|618_SICK_VACATION_ADJ_20200730
ADJOTH|SICK_ADJ|647|Sick|5|ET647|2020/07/30|HRC_LEGACY|647_SICK_VACATION_ADJ_20200730
ADJOTH|SICK_ADJ|648|Sick|5|ET648|2020/07/30|HRC_LEGACY|648_SICK_VACATION_ADJ_20200730
ADJOTH|SICK_ADJ|649|Sick|5|ET649|2020/07/30|HRC_LEGACY|649_SICK_VACATION_ADJ_20200730
ADJOTH|SICK_ADJ|650|Sick|5|ET650|2020/07/30|HRC_LEGACY|650_SICK_VACATION_ADJ_20200730
ADJOTH|SICK_ADJ|652|Sick|5|ET652|2020/07/30|HRC_LEGACY|652_SICK_VACATION_ADJ_20200730
ADJOTH|SICK_ADJ|653|Sick|5|ET653|2020/07/30|HRC_LEGACY|653_SICK_VACATION_ADJ_20200730
ADJOTH|SICK_ADJ|654|Sick|5|ET654|2020/07/30|HRC_LEGACY|654_SICK_VACATION_ADJ_20200730
ADJOTH|SICK_ADJ|655|Sick|5|ET655|2020/07/30|HRC_LEGACY|655_SICK_VACATION_ADJ_20200730
ADJOTH|SICK_ADJ|656|Sick|5|ET656|2020/07/30|HRC_LEGACY|656_SICK_VACATION_ADJ_20200730
ADJOTH|SICK_ADJ|657|Sick|5|ET657|2020/07/30|HRC_LEGACY|657_SICK_VACATION_ADJ_20200730
ADJOTH|SICK_ADJ|658|Sick|5|ET658|2020/07/30|HRC_LEGACY|658_SICK_VACATION_ADJ_20200730
ADJOTH|SICK_ADJ|659|Sick|5|ET659|2020/07/30|HRC_LEGACY|659_SICK_VACATION_ADJ_20200730
ADJOTH|SICK_ADJ|660|Sick|5|ET660|2020/07/30|HRC_LEGACY|660_SICK_VACATION_ADJ_20200730
ADJOTH|SICK_ADJ|662|Sick|5|ET662|2020/07/30|HRC_LEGACY|662_SICK_VACATION_ADJ_20200730
ADJOTH|SICK_ADJ|665|Sick|5|ET665|2020/07/30|HRC_LEGACY|665_SICK_VACATION_ADJ_20200730
ADJOTH|SICK_ADJ|666|Sick|5|ET666|2020/07/30|HRC_LEGACY|666_SICK_VACATION_ADJ_20200730
ADJOTH|SICK_ADJ|667|Sick|5|ET667|2020/07/30|HRC_LEGACY|667_SICK_VACATION_ADJ_20200730
```

Also we will check the “Import and Load Data” page and we will see that the Data Set name will be same as payroll flow instance name (GLR01 in this example)



GLR01

Saved Search: My Recent Data Sets

** At least one is require

Match ● All ○ Any

** Data Set: Starts with GLR01

** Content ID: Starts with

** Last Updated Date: After 7/23/20 12:00 AM

Created By

Data Sets

Data Set	Content ID	Import Status	Load Status	Import Success(%)	Total Lines	Load Success(%)	Total Objects	Failed Objects
GLR01.zip	UCMFA02565395	✓	☒	100	722	95	715	31

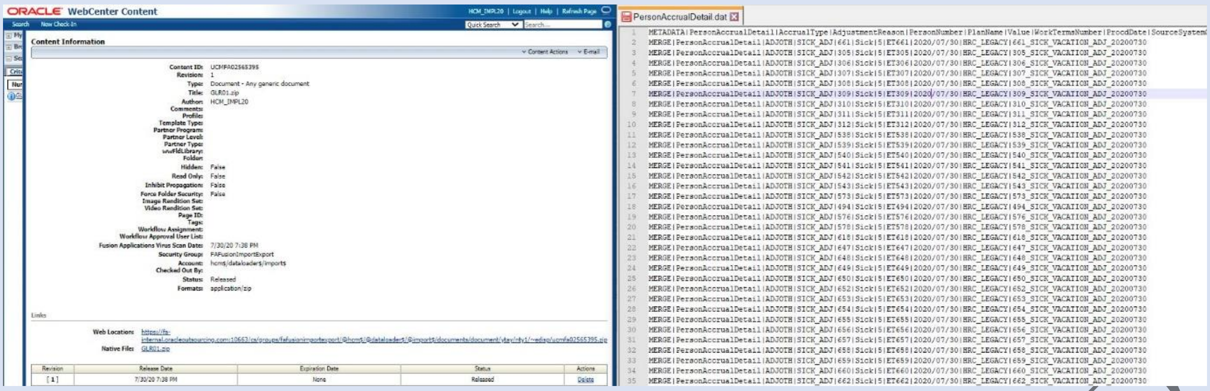
Columns Hidden 17

Business Objects

Business Object	Load Order	Import Status	Load Status	Messages	Import Success(%)	Total Lines	Failed Lines	Load Success(%)	Total Objects	Failed Objects	Last Updated Date	Failed Lines File
Absence Accrual Balance Component	1	✓	☒	🗨	100	722	0	95	715	31	7/30/20	■

Columns Hidden 9

Also we can check the content of GLR01.zip from content server



Content Information

Content ID: UCMFA02565395
Revision: 1
Type: Document - Any generic document
Title: GLR01.zip
Author: HCM_IMPL20
Comments:
Profile:
Template Type:
Partner Program:
Partner Level:
Partner Type:
wwFldLibrary:
Folder:
Hidden: False
Read Only: False
Inhibit Propagation: False
Force Folder Security: False
Image Rendition Set:
Video Rendition Set:
Page ID:
Tags:
Workflow Assignment:
Workflow Approval User List:
Fusion Applications Virus Scan Date: 7/30/20 7:38 PM
Security Group: FAFusionImportExport
Account: hcm$/dataloader$/import$
Checked Out By:
Status: Released
Formats: application/zip

Links

Web Location: https://fs-internal.oracleoutsourcing.com:10663/cs/groups/fafusionimportexport/@hcm$/@dataloader$/@import$/documents/document/ytay/nty1/~edisp/ucmfa02565395.zip
Native File: GLR01.zip

Revision	Release Date	Expiration Date	Status	Actions
[1]	7/30/20 7:38 PM	None	Released	Delete

```
METADATA|PersonAccrualDetail|AccrualType|AdjustmentReason|PersonNumber|PlanName|Value|WorkTermsNumber|ProcdDate|SourceSystem
MERGE|PersonAccrualDetail|ADJOTH|SICK_ADJ|661|Sick|5|ET661|2020/07/30|HRC_LEGACY|661_SICK_VACATION_ADJ_20200730
MERGE|PersonAccrualDetail|ADJOTH|SICK_ADJ|305|Sick|5|ET305|2020/07/30|HRC_LEGACY|305_SICK_VACATION_ADJ_20200730
MERGE|PersonAccrualDetail|ADJOTH|SICK_ADJ|306|Sick|5|ET306|2020/07/30|HRC_LEGACY|306_SICK_VACATION_ADJ_20200730
MERGE|PersonAccrualDetail|ADJOTH|SICK_ADJ|307|Sick|5|ET307|2020/07/30|HRC_LEGACY|307_SICK_VACATION_ADJ_20200730
MERGE|PersonAccrualDetail|ADJOTH|SICK_ADJ|308|Sick|5|ET308|2020/07/30|HRC_LEGACY|308_SICK_VACATION_ADJ_20200730
MERGE|PersonAccrualDetail|ADJOTH|SICK_ADJ|309|Sick|5|ET309|2020/07/30|HRC_LEGACY|309_SICK_VACATION_ADJ_20200730
MERGE|PersonAccrualDetail|ADJOTH|SICK_ADJ|310|Sick|5|ET310|2020/07/30|HRC_LEGACY|310_SICK_VACATION_ADJ_20200730
MERGE|PersonAccrualDetail|ADJOTH|SICK_ADJ|311|Sick|5|ET311|2020/07/30|HRC_LEGACY|311_SICK_VACATION_ADJ_20200730
MERGE|PersonAccrualDetail|ADJOTH|SICK_ADJ|312|Sick|5|ET312|2020/07/30|HRC_LEGACY|312_SICK_VACATION_ADJ_20200730
MERGE|PersonAccrualDetail|ADJOTH|SICK_ADJ|538|Sick|5|ET538|2020/07/30|HRC_LEGACY|538_SICK_VACATION_ADJ_20200730
MERGE|PersonAccrualDetail|ADJOTH|SICK_ADJ|539|Sick|5|ET539|2020/07/30|HRC_LEGACY|539_SICK_VACATION_ADJ_20200730
MERGE|PersonAccrualDetail|ADJOTH|SICK_ADJ|540|Sick|5|ET540|2020/07/30|HRC_LEGACY|540_SICK_VACATION_ADJ_20200730
MERGE|PersonAccrualDetail|ADJOTH|SICK_ADJ|541|Sick|5|ET541|2020/07/30|HRC_LEGACY|541_SICK_VACATION_ADJ_20200730
MERGE|PersonAccrualDetail|ADJOTH|SICK_ADJ|542|Sick|5|ET542|2020/07/30|HRC_LEGACY|542_SICK_VACATION_ADJ_20200730
MERGE|PersonAccrualDetail|ADJOTH|SICK_ADJ|543|Sick|5|ET543|2020/07/30|HRC_LEGACY|543_SICK_VACATION_ADJ_20200730
MERGE|PersonAccrualDetail|ADJOTH|SICK_ADJ|573|Sick|5|ET573|2020/07/30|HRC_LEGACY|573_SICK_VACATION_ADJ_20200730
MERGE|PersonAccrualDetail|ADJOTH|SICK_ADJ|494|Sick|5|ET494|2020/07/30|HRC_LEGACY|494_SICK_VACATION_ADJ_20200730
MERGE|PersonAccrualDetail|ADJOTH|SICK_ADJ|576|Sick|5|ET576|2020/07/30|HRC_LEGACY|576_SICK_VACATION_ADJ_20200730
MERGE|PersonAccrualDetail|ADJOTH|SICK_ADJ|578|Sick|5|ET578|2020/07/30|HRC_LEGACY|578_SICK_VACATION_ADJ_20200730
MERGE|PersonAccrualDetail|ADJOTH|SICK_ADJ|618|Sick|5|ET618|2020/07/30|HRC_LEGACY|618_SICK_VACATION_ADJ_20200730
MERGE|PersonAccrualDetail|ADJOTH|SICK_ADJ|647|Sick|5|ET647|2020/07/30|HRC_LEGACY|647_SICK_VACATION_ADJ_20200730
MERGE|PersonAccrualDetail|ADJOTH|SICK_ADJ|648|Sick|5|ET648|2020/07/30|HRC_LEGACY|648_SICK_VACATION_ADJ_20200730
MERGE|PersonAccrualDetail|ADJOTH|SICK_ADJ|649|Sick|5|ET649|2020/07/30|HRC_LEGACY|649_SICK_VACATION_ADJ_20200730
MERGE|PersonAccrualDetail|ADJOTH|SICK_ADJ|650|Sick|5|ET650|2020/07/30|HRC_LEGACY|650_SICK_VACATION_ADJ_20200730
MERGE|PersonAccrualDetail|ADJOTH|SICK_ADJ|652|Sick|5|ET652|2020/07/30|HRC_LEGACY|652_SICK_VACATION_ADJ_20200730
MERGE|PersonAccrualDetail|ADJOTH|SICK_ADJ|653|Sick|5|ET653|2020/07/30|HRC_LEGACY|653_SICK_VACATION_ADJ_20200730
MERGE|PersonAccrualDetail|ADJOTH|SICK_ADJ|654|Sick|5|ET654|2020/07/30|HRC_LEGACY|654_SICK_VACATION_ADJ_20200730
MERGE|PersonAccrualDetail|ADJOTH|SICK_ADJ|655|Sick|5|ET655|2020/07/30|HRC_LEGACY|655_SICK_VACATION_ADJ_20200730
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MERGE|PersonAccrualDetail|ADJOTH|SICK_ADJ|659|Sick|5|ET659|2020/07/30|HRC_LEGACY|659_SICK_VACATION_ADJ_20200730
MERGE|PersonAccrualDetail|ADJOTH|SICK_ADJ|660|Sick|5|ET660|2020/07/30|HRC_LEGACY|660_SICK_VACATION_ADJ_20200730
MERGE|PersonAccrualDetail|ADJOTH|SICK_ADJ|662|Sick|5|ET662|2020/07/30|HRC_LEGACY|662_SICK_VACATION_ADJ_20200730
```
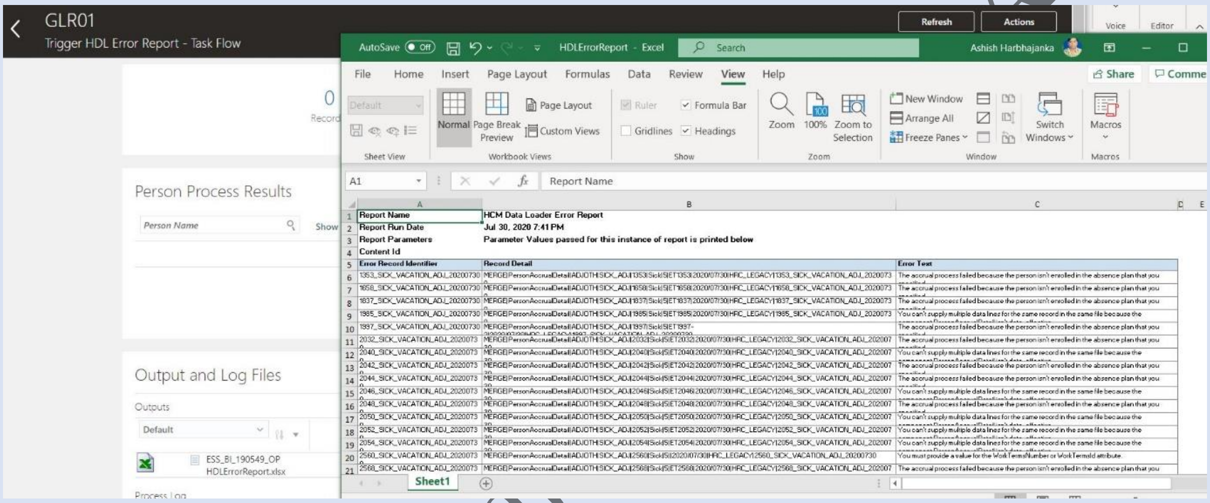
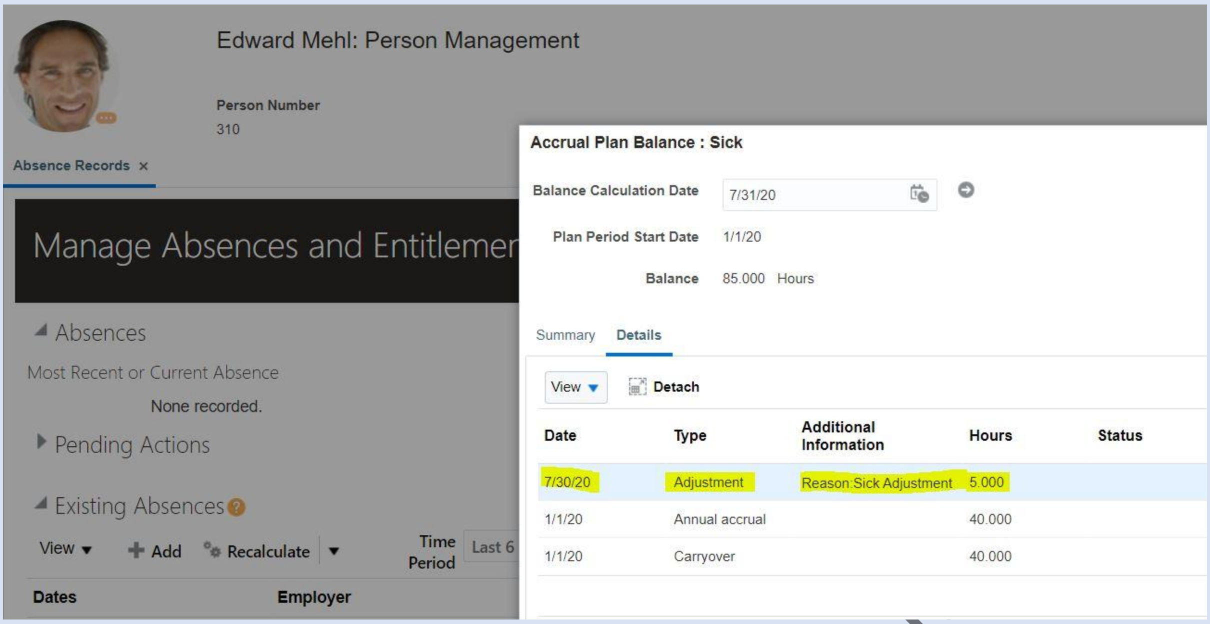

And also, we can quickly check output of “Trigger HDL Error Report” which is an xlsx file



A	B	C
Report Name	HCM Data Loader Error Report	
Report Run Date	Jul 30, 2020 7:41 PM	
Report Parameters	Parameter Values passed for this instance of report is printed below	
Content Id		
Error Record Identifier	**Record Detail**	**Error Text**
1353_SICK_VACATION_ADJ_20200730	MERGE|PersonAccrualDetail|ADJOTH|SICK_ADJ|1353|Sick|5|ET1353|2020/07/30|HRC_LEGACY|1353_SICK_VACATION_ADJ_2020073	The accrual process failed because the person isn't enrolled in the absence plan that you
1658_SICK_VACATION_ADJ_20200730	MERGE|PersonAccrualDetail|ADJOTH|SICK_ADJ|1658|Sick|5|ET1658|2020/07/30|HRC_LEGACY|1658_SICK_VACATION_ADJ_2020073	The accrual process failed because the person isn't enrolled in the absence plan that you
1837_SICK_VACATION_ADJ_20200730	MERGE|PersonAccrualDetail|ADJOTH|SICK_ADJ|1837|Sick|5|ET1837|2020/07/30|HRC_LEGACY|1837_SICK_VACATION_ADJ_2020073	The accrual process failed because the person isn't enrolled in the absence plan that you
1985_SICK_VACATION_ADJ_20200730	MERGE|PersonAccrualDetail|ADJOTH|SICK_ADJ|1985|Sick|5|ET1985|2020/07/30|HRC_LEGACY|1985_SICK_VACATION_ADJ_2020073	You can't supply multiple data lines for the same record in the same file because the
1997_SICK_VACATION_ADJ_20200730	MERGE|PersonAccrualDetail|ADJOTH|SICK_ADJ|1997|Sick|5|ET1997-	The accrual process failed because the person isn't enrolled in the absence plan that you
2032_SICK_VACATION_ADJ_2020073	MERGE|PersonAccrualDetail|ADJOTH|SICK_ADJ|2032|Sick|5|ET2032|2020/07/30|HRC_LEGACY|2032_SICK_VACATION_ADJ_202007	The accrual process failed because the person isn't enrolled in the absence plan that you
2040_SICK_VACATION_ADJ_2020073	MERGE|PersonAccrualDetail|ADJOTH|SICK_ADJ|2040|Sick|5|ET2040|2020/07/30|HRC_LEGACY|2040_SICK_VACATION_ADJ_202007	You can't supply multiple data lines for the same record in the same file because the
2042_SICK_VACATION_ADJ_2020073	MERGE|PersonAccrualDetail|ADJOTH|SICK_ADJ|2042|Sick|5|ET2042|2020/07/30|HRC_LEGACY|2042_SICK_VACATION_ADJ_202007	The accrual process failed because the person isn't enrolled in the absence plan that you
2044_SICK_VACATION_ADJ_2020073	MERGE|PersonAccrualDetail|ADJOTH|SICK_ADJ|2044|Sick|5|ET2044|2020/07/30|HRC_LEGACY|2044_SICK_VACATION_ADJ_202007	The accrual process failed because the person isn't enrolled in the absence plan that you
2046_SICK_VACATION_ADJ_2020073	MERGE|PersonAccrualDetail|ADJOTH|SICK_ADJ|2046|Sick|5|ET2046|2020/07/30|HRC_LEGACY|2046_SICK_VACATION_ADJ_202007	You can't supply multiple data lines for the same record in the same file because the
2048_SICK_VACATION_ADJ_2020073	MERGE|PersonAccrualDetail|ADJOTH|SICK_ADJ|2048|Sick|5|ET2048|2020/07/30|HRC_LEGACY|2048_SICK_VACATION_ADJ_202007	The accrual process failed because the person isn't enrolled in the absence plan that you
2050_SICK_VACATION_ADJ_2020073	MERGE|PersonAccrualDetail|ADJOTH|SICK_ADJ|2050|Sick|5|ET2050|2020/07/30|HRC_LEGACY|2050_SICK_VACATION_ADJ_202007	You can't supply multiple data lines for the same record in the same file because the
2052_SICK_VACATION_ADJ_2020073	MERGE|PersonAccrualDetail|ADJOTH|SICK_ADJ|2052|Sick|5|ET2052|2020/07/30|HRC_LEGACY|2052_SICK_VACATION_ADJ_202007	You can't supply multiple data lines for the same record in the same file because the
2054_SICK_VACATION_ADJ_2020073	MERGE|PersonAccrualDetail|ADJOTH|SICK_ADJ|2054|Sick|5|ET2054|2020/07/30|HRC_LEGACY|2054_SICK_VACATION_ADJ_202007	You can't supply multiple data lines for the same record in the same file because the
2560_SICK_VACATION_ADJ_2020073	MERGE|PersonAccrualDetail|ADJOTH|SICK_ADJ|2560|Sick|5||2020/07/30|HRC_LEGACY|2560_SICK_VACATION_ADJ_20200730	You must provide a value for the WorkTermsNumber or WorkTermsId attribute.
2568_SICK_VACATION_ADJ_2020073	MERGE|PersonAccrualDetail|ADJOTH|SICK_ADJ|2568|Sick|5|ET2568|2020/07/30|HRC_LEGACY|2568_SICK_VACATION_ADJ_202007	The accrual process failed because the person isn't enrolled in the absence plan that you

As a last step we will navigate to ***My Client Groups -> Person Management -> Search for a Person (310 for this example) -> Absence -> Manage Absence Records***

And Then check under vacation plan we will see that an adjustment entry with accrual value of 5 has been loaded with effective date as 30/07/2020



Edward Mehl: Person Management

Person Number
310

Most Recent or Current Absence
None recorded.

Dates | Employer

Accrual Plan Balance : Sick

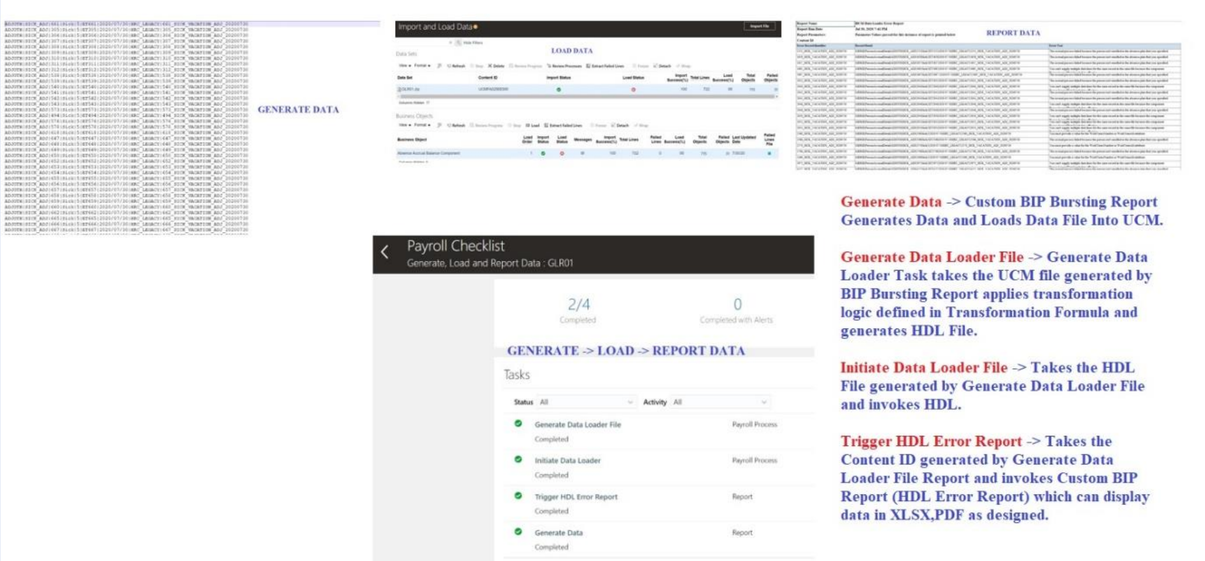
Balance Calculation Date: 7/31/20
Plan Period Start Date: 1/1/20
Balance: 85.000 Hours

Date	Type	Additional Information	Hours	Status
7/30/20	Adjustment	Reason:Sick Adjustment	5.000	
1/1/20	Annual accrual		40.000	
1/1/20	Carryover		40.000	

Conclusion

So, this is how we can make use of BIP (Bursting Feature) to deliver data to UCM Server which can then be loaded into HCM Application by using of Generate Data Loader Task.

We can summarize the entire step in one image:



Payroll Checklist
Generate, Load and Report Data : GLR01

2/4 Completed
0 Completed with Alerts

Status: All
Activity: All

●	Generate Data Loader File Completed	Payroll Process
●	Initiate Data Loader Completed	Payroll Process
●	Trigger HDL Error Report Completed	Report
●	Generate Data Completed	Report

Generate Data -> Custom BIP Bursting Report Generates Data and Loads Data File Into UCM.

Generate Data Loader File -> Generate Data Loader Task takes the UCM file generated by BIP Bursting Report applies transformation logic defined in Transformation Formula and generates HDL File.

Initiate Data Loader File -> Takes the HDL File generated by Generate Data Loader File and invokes HDL.

Trigger HDL Error Report -> Takes the Content ID generated by Generate Data Loader File Report and invokes Custom BIP Report (HDL Error Report) which can display data in XLSX,PDF as designed.

One can make the “Generate and Load Data” task more generic by adding two new flow parameters namely report name and report path and use same flow to load different types of data, and with that we have come to the end of this post.

Hope this was a good read.

Thanks for your time and have a nice day ahead.