Load Data into Oracle HCM Cloud Using HCM Data Loader Transformation Fast Formula By: Ashish Harbhajanka

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Introduction

I hope most of you know how to use HCM Data Loader Tool to load data into Oracle HCM Cloud Application and while HCM Data Loader is a great tool to facilitate data load, customers or in general most consultants too are comfortable working with excel files.

Customers are comfortable sharing data into Excel and then there is a need of making changes to the file to convert the file into .dat file which can then be loaded using HCM Data Loader.

However, if there are simple transformation logic which needs to be applied the logic can be applied in a a fast formula of type "HCM Data Loader". These kind of formula is also referred to as Transformation Formula.

The way the entire process works is:

- a) You get data in a predefined template and either Excel or CSV (most preferred approach, one may choose other file type too, but am not very sure about all supported types. CSV for sure works which is what will be considered here)
- b) Making use of Transformation formula to make transformation to the data
- c) Loading Data using HDL

We will demonstrate the entire process with a worked-out example.

Worked-Out Example

For this example, we would try to load Absence Entry Records into Application. One may choose a different business object if required.

For this example, we use the below data file

PersonNumber	Employer	AbsenceType	AbsenceReason	AbsenceStatus	ApprovalStatus	StartDate	StartTime	EndDate	EndTime	Comments
691	US1 Legal Entity	Vacation		SUBMITTED	APPROVED	06-04-2020	08:30	08-04-2020	16:30	Data Loaded Using Transformation Formula
691	US1 Legal Entity	Vacation		SUBMITTED	APPROVED	09-04-2020	08:30	10-04-2020	16:30	Data Loaded Using Transformation Formula
691	US1 Legal Entity	Vacation		SUBMITTED	APPROVED	13-04-2020	08:30	14-04-2020	16:30	Data Loaded Using Transformation Formula
691	US1 Legal Entity	Vacation		SUBMITTED	APPROVED	15-04-2020	08:30	17-04-2020	16:30	Data Loaded Using Transformation Formula

We will also have to make use of a Transformation Fast Formula. We will call this Transformation Fast Formula as "GENERATE ABSENCE ENTRY HDL FROM CSV"

Fast Formula Text										
/*************************************										
*										
* FORMULA NAME: GENERATE ABSENCE ENTRY HDL FROM CSV										
* FORMULA TYPE: HCM Data Loader										
* DESCRIPTION: This formula will create PersonAbsenceEntry HDL File from CSV File										
* CHANGE HISTORY:										

Version Date Created By Comments										
1.0 09-Jun-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),										
POSITION10 (text), POSITION11 (text)										

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```
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'
DELIMITER' THEN

DELIE';

DELIF OPERATION='READ' THEN

OUTPUTVALUE='NONE'

ELSE IF OPERATION = 'NUMBEROFBUSINESSOBJECTS' THEN

(
OUTPUTVALUE = '1'

RETURN OUTPUTVALUE

)

ELSE IF OPERATION = 'MFT'

(
DEFAULT FOR POSITION10 IS 'NO DATA'
               METADATA1[1] = 'PersonAbsenceEntry' /*FileName*/ /*Reserved*/
               METADATA1[2] = 'PersonAbsenceEntry' /*FileDiscriminator*/ /*Reserved*/
               METADATA1[3] = 'PersonNumber'
               METADATA1[4] = 'Employer'
               METADATA1[5] = 'AbsenceType'
METADATA1[6] = AbsenceReason'
               METADATA1[7] AbsenceStatus'
               METADATA1[8] = 'ApprovalStatus'
               METADATA[19] = 'StartDate'
               METADATA1[10] = 'StartTime'
               METADATA1[11] = 'EndDate'
               METADATA1[12] = 'EndTime'
               METADATA1[13] = 'Comments'
RETURN METADATA1
 ELSE IF OPERATION='MAP' THEN
   /*HDL Related Outputs*/
               IF LINEREPEATNO = 1 THEN
                       IF POSITION1 <> 'PersonNumber' THEN
                       (
                              LINEREPEAT = 'Y'
                              FileName = 'PersonAbsenceEntry'
                              BusinessOperation = 'MERGE'
                              FileDiscriminator = 'PersonAbsenceEntry'
```

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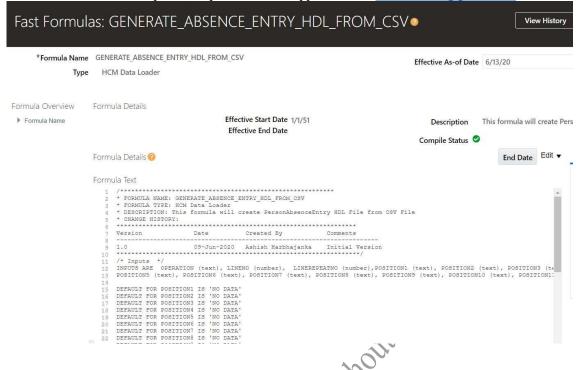
```
PersonNumber = trim(POSITION1)
                           Employer = trim(POSITION2)
                           AbsenceType = trim(POSITION3)
                           AbsenceReason = trim(POSITION4)
                           AbsenceStatus = trim(POSITION5)
                           ApprovalStatus = trim(POSITION6)
                           StartDate =
TO CHAR(TO DATE(POSITION7, 'YYYY/MM/DD'))
                           StartDate = trim(POSITION7)
                           StartTime = trim(POSITION8)
                           EndDate = trim(POSITION9)
                           EndDate =
TO CHAR(TO DATE(POSITION9,'YYYY/MM/DD'))
                           EndTime = trim(POSITION10)
                           Comments = trim(POSITION11)
                           RETURN
BusinessOperation,FileName,FileDiscriminator,PersonNumber,Employer,AbsenceType,AbsenceR
eason, Absence Status, Approval Status, Comments, Start Date, Start Time, End Date, End Time, LINEREP \\
EAT,LINEREPEATNO
             )
ELSE
 OUTPUTVALUE='NONE'
RETURN OUTPUTVALUE
/* End Formula Text */
```

We would need to register this Fast Formula in Application.

Navigation: Setup and Maintenance->Fast Formula->Create-> Provide Name, Formula Type, Description, Start Date and then add the formula text and compile. Once done the application screen should appear as below:

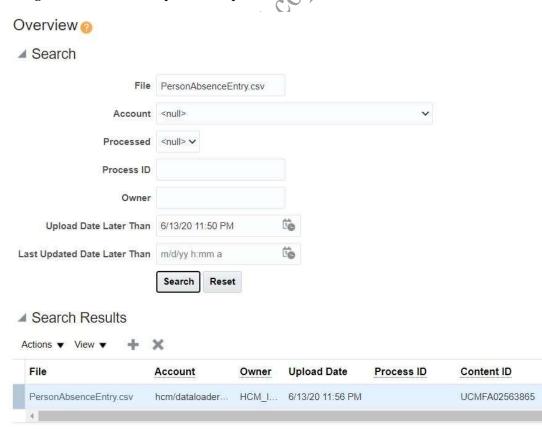
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In the next step we would have to upload the CSV file to UCM. We have to use "File Import and Export" option.

Navigation: Tools->File Import and Export

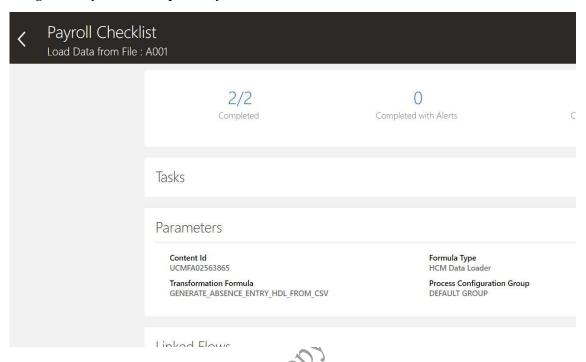


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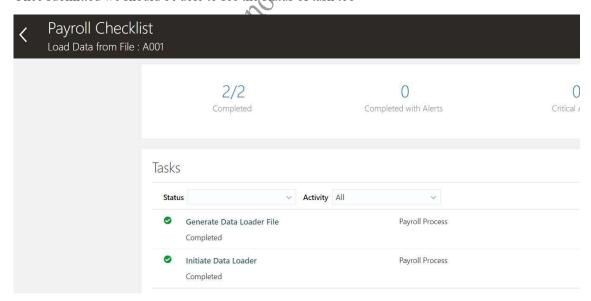
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In the next step we would need to use this content id and submit a payroll flow.

Navigation: My Client Groups -> Payroll -> Submit a Flow -> Load Data From File



Once submitted we should be able to see the status of task too

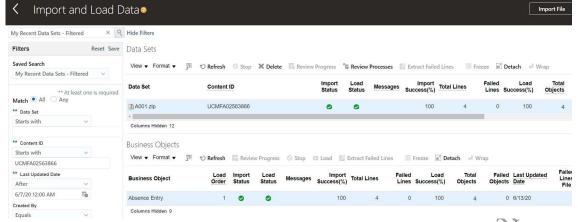


Also, we should now be able to view that a Data load process should have triggered.

Navigation: My Client Groups -> Data Exchange -> HCM Data Loader (Import and Load Data)

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As a last step, we should perform a verification step

Verification

We have loaded Absence Records for Person# 691.

We would now need to verify whether the absence records got loaded. We can verify the same using the following navigation

Navigation: My Client Groups -> Person Management -> Search for Person# 691 -> Manage Records

