RQC Access Request App: SSIS SQL TASKS For Generating data models

<https://stackoverflow.com/questions/53009773/ssis-using-the-sql-server-schema-name-as-a-variable-for-queries-and-procedure>

Lawson schemas AND TABLES :

* Active Employees:
  + LOGLAW.rmdata
* Active Accounting Units:
  + TESTLAW.GLNAMES
* Accounting unit2Activity
  + TESTLAW.ACACTIVITY ac,
  + TESTLAW.GLNAMES
* Accounting unit2requester
  + PRODLAW.rqacctu
  + PRODLAW.GLNAMES
  + PRODLAW.REQUESTER
* Requester Location
  + PRODLAW.rqloc
* Budget manager and Financial analyst
  + PRODLAW.AUMXVALUE
  + LOGLAW.rmdata

SSIS Employees Staging database HCM\_Import database on BHSQLDB06WP

* Active Employees:
  + TESTLTM.employeecontact
  + TESTLTM.employee

SSIS packages:

1. Accounting unit
   1. Sql task query: Expression

"select trim(description) as description, trim(acct\_unit) as acct\_unit, obj\_id, parent\_obj\_id

from"+@[$Project::INFORLAWSON\_LAWSCHEMA]+".GLNAMES where trim(active\_status) = 'A'

AND TRIM(posting\_flag) = 'P'

and trim(chart\_section) = 2

order by 1 asc"

* 1. DF Script Component query parser

OleDbDataAdapter da = new OleDbDataAdapter();

DataTable dt = new DataTable();

// Extract the data from the object variable into the table

da.Fill(dt, Variables.ActiveAuObj);

// iterate over each row in the DataTable, creating a new row in our Data Flow buffer for each

foreach (DataRow dr in dt.Rows)

{

// Create a new, empty row in the output buffer

ActiveAuOutputBuffer.AddRow();

ActiveAuOutputBuffer.acctunit = dr["acct\_unit"].ToString();

ActiveAuOutputBuffer.desccription = dr["description"].ToString();

ActiveAuOutputBuffer.objid = int.Parse(dr["obj\_id"].ToString());

ActiveAuOutputBuffer.parentobjid = int.Parse(dr["parent\_obj\_id"].ToString());

}

1. Accounting unit2Activity
   1. SQL Task - Expression

"select trim(ac.acct\_unit) as acct\_unit, trim(ac.activity) as activity,

trim(ac.description) as short\_desc , trim(ac.ACTIVITY\_GRP) as activity\_grp,

trim(ac.usr\_status) as usr\_status, trim(ac.BEGIN\_DATE) as begin\_date,

trim(ac.END\_DATE) as end\_date,

trim(CONCAT(CONCAT(ac.LONG\_DESC\_01,'-'), TRIM(ac.LONG\_DESC\_02))) as long\_desc

from "+@[$Project::INFORLAWSON\_LAWSCHEMA]+".ACACTIVITY ac, "+@[$Project::INFORLAWSON\_LAWSCHEMA] +".GLNAMES gl

where trim(ac.acct\_unit) = trim(gl.acct\_unit)

and ac.end\_date >= current\_date

and trim(gl.active\_status) = 'A'

AND TRIM(gl.posting\_flag) = 'P'

and trim(gl.chart\_section) = 2"

* 1. DF Script Component

OleDbDataAdapter da = new OleDbDataAdapter();

DataTable dt = new DataTable();

// Extract the data from the object variable into the table

da.Fill(dt, Variables.AuToActivityObj);

// iterate over each row in the DataTable, creating a new row in our Data Flow buffer for each

foreach (DataRow dr in dt.Rows)

{

// Create a new, empty row in the output buffer

Au2ActivityOutputBuffer.AddRow();

Au2ActivityOutputBuffer.acctunit = dr["acct\_unit"].ToString();

Au2ActivityOutputBuffer.activity = dr["activity"].ToString();

Au2ActivityOutputBuffer.shortdesc = dr["short\_desc"].ToString();

Au2ActivityOutputBuffer.usrstatus = dr["usr\_status"].ToString();

Au2ActivityOutputBuffer.begindate = dr["begin\_date"].ToString();

Au2ActivityOutputBuffer.enddate = dr["end\_date"].ToString();

Au2ActivityOutputBuffer.activitygrp = dr["activity\_grp"].ToString();

}

1. Accounting unit2requester
   1. SLQ Task -- Expression

"select trim(rq.requester) as requester, trim(rq.acct\_unit) as acct\_unit,

trim(r.R\_NAME) as r\_name, trim(r.req\_location) as req\_location,

trim(r.require\_vendor) as require\_vendor,trim(r.email\_address) as email\_address

from "+ @[$Project::INFORLAWSON\_LAWSCHEMA] +".rqacctu rq,

"+ @[$Project::INFORLAWSON\_LAWSCHEMA] +".GLNAMES gl,

"+ @[$Project::INFORLAWSON\_LAWSCHEMA] +".REQUESTER r

where rq.company=1

and trim(rq.company)=trim(r.company)

and trim(rq.requester)=trim(r.requester)

AND TRIM(r.active\_status) = 'A'

and trim(rq.acct\_unit) = trim(gl.acct\_unit)

and trim(gl.active\_status) = 'A'

AND TRIM(gl.posting\_flag) = 'P'

and trim(gl.chart\_section) = 2"

* 1. DF Script Component

OleDbDataAdapter da = new OleDbDataAdapter();

DataTable dt = new DataTable();

// Extract the data from the object variable into the table

da.Fill(dt, Variables.RqAcctuObj);

// iterate over each row in the DataTable, creating a new row in our Data Flow buffer for each

foreach (DataRow dr in dt.Rows)

{

ReqAuOutputBuffer.AddRow();

ReqAuOutputBuffer.acctunit = dr["acct\_unit"].ToString();

ReqAuOutputBuffer.requester = dr["requester"].ToString();

ReqAuOutputBuffer.rname = dr["r\_name"].ToString();

ReqAuOutputBuffer.reqlocation = dr["req\_location"].ToString();

ReqAuOutputBuffer.requirevendor = dr["require\_vendor"].ToString();

ReqAuOutputBuffer.emailaddress = dr["email\_address"].ToString();

}

1. Accounting unit2 budget manager and Financial analyst
   1. SQL Task -- Expression

"select trim(gl.ACCT\_UNIT) as acct\_unit, trim(a.MATRIX\_CAT) as matrix\_cat,

trim(ec.employee) as emp\_id, trim(ec.cdemailaddress) as emp\_email,

trim(e.presentationnamesnapshot) as emp\_name from "+@[$Project::INFORLAWSON\_LAWSCHEMA]+".glnames gl inner join "+@[$Project::INFORLAWSON\_LAWSCHEMA]+".AUMXVALUE a on gl.OBJ\_ID = a.OBJ\_ID,"+@[$Project::INFORLAWSON\_LTMSCHEMA]+".employeecontact ec,"+@[$Project::INFORLAWSON\_LTMSCHEMA]+".employee e "+" where a.MATRIX\_CAT

in ('FINALYST','BUDMGR')

and trim(gl.active\_status) = 'A'

AND TRIM(gl.posting\_flag) = 'P'

and trim(gl.chart\_section) = 2

and trim(SUBSTR(a.MX\_VALUE,1, INSTR(a.MX\_VALUE,'|', 1, 1)-1))= trim(ec.employee)

and trim(ec.hrorganization) = 'JAX'

and ec.CDEMAILADDRESS LIKE '%jax.org%'

and ec.preferredcontact <>0

and trim(ec.hrorganization)=trim(e.hrorganization)

and trim(ec.employee)=trim(e.employee)

and trim(e.relationshipstatus) in ('ACTIVE')

order by 1"

* 1. DF Script component

1. Requester Location
   1. SQL Task -- Expression

"select trim(REQ\_LOCATION) as req\_location, trim(R\_NAME) as r\_name, trim(CONCAT(CONCAT( TRIM(ADDR1), ', '), ADDR2)) as address from "+ @[$Project::INFORLAWSON\_LAWSCHEMA] +".rqloc where trim(active\_status)='A' and TRIM(COMPANY)='1'"

* 1. DF Script component

OleDbDataAdapter da = new OleDbDataAdapter();

DataTable dt = new DataTable();

// Extract the data from the object variable into the table

da.Fill(dt, Variables.ReqLocation);

// iterate over each row in the DataTable, creating a

//new row in our Data Flow buffer for each

foreach (DataRow dr in dt.Rows)

{

ReqLocationOutputBuffer.AddRow();

ReqLocationOutputBuffer.address = dr["address"].ToString();

ReqLocationOutputBuffer.reqlocation = dr["req\_location"].ToString();

ReqLocationOutputBuffer.rname = dr["r\_name"].ToString();

}

1. Active employee
   1. SQL Task -- Expression

"select trim(ec.employee) as emp\_id, trim(ec.cdemailaddress) as emp\_email,

trim(e.presentationnamesnapshot) as emp\_name, trim(e.relationshiptoorganization) as emp\_category,

trim(e.relationshipstatus) as emp\_status, trim(e.worktype) as emp\_type

from "+@[$Project::INFORLAWSON\_LTMSCHEMA] +".employeecontact ec, "+@[$Project::INFORLAWSON\_LTMSCHEMA] +".employee e

where trim(ec.hrorganization) = 'JAX'

and ec.CDEMAILADDRESS LIKE '%jax.org%'

and ec.preferredcontact <>0

and trim(ec.hrorganization)=trim(e.hrorganization)

and trim(ec.employee)=trim(e.employee)

and trim(e.relationshipstatus) in ('ACTIVE')"

* 1. DF Script Component

OleDbDataAdapter da = new OleDbDataAdapter();

DataTable dt = new DataTable();

// Extract the data from the object variable into the table

da.Fill(dt, Variables.JaxActiveEmp);

// iterate over each row in the DataTable, creating a new row

//in our Data Flow buffer for each

foreach (DataRow dr in dt.Rows)

{

// Create a new, empty row in the output buffer

JaxActiveEmpOutputBuffer.AddRow();

// Now populate the columns

JaxActiveEmpOutputBuffer.empid = int.Parse(dr["emp\_id"].ToString());

JaxActiveEmpOutputBuffer.empemail = dr["emp\_email"].ToString();

JaxActiveEmpOutputBuffer.empname = dr["emp\_name"].ToString();

JaxActiveEmpOutputBuffer.empcategory = dr["emp\_category"].ToString();

JaxActiveEmpOutputBuffer.empstatus = dr["emp\_status"].ToString();

JaxActiveEmpOutputBuffer.emptype = dr["emp\_type"].ToString();

}

1. Requested By Field -> approvers table (bgmgr, financial analyst,…
2. AU2activity:
   1. SQL QUERY
   2. SSIS script – query parser

OleDbDataAdapter da = new OleDbDataAdapter();

DataTable dt = new DataTable();

// Extract the data from the object variable into the table

da.Fill(dt, Variables.AuToActivityObj);

// iterate over each row in the DataTable, creating a new row in our Data Flow buffer for each

foreach (DataRow dr in dt.Rows)

{

// Create a new, empty row in the output buffer

Au2ActivityOutputBuffer.AddRow();

Au2ActivityOutputBuffer.acctunit = dr["acct\_unit"].ToString();

Au2ActivityOutputBuffer.activity = dr["activity"].ToString();

Au2ActivityOutputBuffer.shortdesc = dr["short\_desc"].ToString();

Au2ActivityOutputBuffer.usrstatus = dr["usr\_status"].ToString();

Au2ActivityOutputBuffer.begindate = dr["begin\_date"].ToString();

Au2ActivityOutputBuffer.enddate = dr["end\_date"].ToString();

}

1. RQC requestor -> employees table
   1. -- get list of active employees of all categories and employment types
   2. -- the projected table is used to populate the RQC Requestor field

select trim(ec.employee) "emp\_id", trim(ec.cdemailaddress) "emp\_email",

trim(e.presentationnamesnapshot) "emp\_name", trim(e.relationshiptoorganization) "emp\_category",

trim(e.relationshipstatus) "emp\_status", trim(e.worktype) "emp\_type"

from PRODLTM.employeecontact ec, PRODLTM.employee e

where trim(ec.hrorganization) = 'JAX'

and ec.CDEMAILADDRESS LIKE '%jax.org%'

and ec.preferredcontact <>0

and trim(ec.hrorganization)=trim(e.hrorganization)

and trim(ec.employee)=trim(e.employee)

and trim(e.relationshipstatus) in ('ACTIVE');

1. Default Location - > req\_location
   1. -- Requestor default location - used to populate the default requestor location field
   2. --

SELECT trim(COMPANY) "company", trim(REQ\_LOCATION) "req\_location",

trim(R\_NAME) "r\_name", trim(CONCAT(CONCAT( TRIM(ADDR1),', '), ADDR2)) "address"

FROM PRODLAW.rqloc

WHERE TRIM(COMPANY)='1';

1. Other Requester (to use as template) – requester
   1. -- List of active requestors : REQUESTER=EMP#, COMPANY=1
   2. -- use to validate if requeter already exists - also
   3. -- to populate the default requestor field
   4. --

SELECT trim(COMPANY) "company", trim(REQUESTER) "requester",

trim(R\_NAME) "r\_name", trim(req\_location) "req\_location",

trim(active\_status) "active\_status", trim(internal\_only) "internal\_only",

trim(require\_vendor) "require\_vendor",trim(email\_address) "email\_address"

FROM PRODLAW.REQUESTER

WHERE COMPANY=1

AND TRIM(active\_status) = 'A';

1. Accounting Units -> acct\_units
   1. -- The active accounting units dataset

select trim(description) "desc", trim(acct\_unit) "acct\_unit", obj\_id, parent\_obj\_id

from PRODLAW.GLNAMES

where trim(active\_status) = 'A'

order by 1 asc;

1. Acct\_unit/form submitted user mapping
   1. -- Accounting Units
   2. -- Each\* Accounting Unit has:
   3. -- A Budget Manager,
   4. -- A Director General Manager
   5. -- A Finacial Analyst
   6. -- Few accounting units do not have a budget\_manager, director\_general\_manager, financial\_analyst

SELECT \*

FROM PRODLAW.VW\_HA\_AU\_DIM;

1. Accounting Unit/requestor mapping -- only active accounting units
   1. Active Requester to active Accounting Unit mapping..
   2. -- This is the list of valid accounting units that this requester can enter on a requisition.

select trim(rq.requester) "requester", trim(rq.acct\_unit) "acct\_unit"

from PRODLAW.rqacctu rq, PRODLAW.GLNAMES gl, PRODLAW.REQUESTER r

where rq.company=1

and trim(rq.company)=trim(r.company)

and trim(rq.requester)=trim(r.requester)

AND TRIM(r.active\_status) = 'A'

and trim(rq.acct\_unit) = trim(gl.acct\_unit)

and trim(gl.active\_status) = 'A';

1. Accounting units/Activity –
   1. -- Active Accounting unit - activities mapping

select trim(ac.acct\_unit) "acct\_unit", trim(ac.activity) "activity",

trim(ac.description)"short\_desc", trim(ac.ACTIVITY\_GRP) "activity\_grp",

trim(ac.usr\_status) "usr\_status", trim(ac.BEGIN\_DATE) "begin\_date",

trim(ac.END\_DATE) "end\_date",

trim(CONCAT(CONCAT(ac.LONG\_DESC\_01,'-'), TRIM(ac.LONG\_DESC\_02))) "long\_desc"

from PRODLAW.ACACTIVITY ac, PRODLAW.GLNAMES gl

where trim(ac.acct\_unit) = trim(gl.acct\_unit)

and trim(gl.active\_status) = 'A';

SQL CONNECTIONS

* Set the passwords for SQL sever and Oracle db connections
  + SQL Finance\_Integrations staging : svcsql-finance\_etl: LeQ#dT%BMb1x
  + <https://dirtburger.jax.org/SecretView.aspx?secretid=6741>
  + Oracle InforLawson: c0xllawo: v4s\_JLWL
  + <https://dirtburger.jax.org/SecretView.aspx?secretid=3706>