# Development (snippets)

### Department Mapping

libname mypath '/apps/sas/proj22/reev\_vdw\_dev/programs/dept\_map/data';

libname out '/apps/sas/reevtmp';

\*time trace, timing information for DBMS calls is sent to the log;

options compress=yes sastrace=',,,s' sastraceloc=saslog no$stsuffix;

/\* import ncoa\_ucoa ad ncoa\_def xls file using import procedure and move to mypath lib\*/

**data** mypath.ncoa\_ucoa\_09252016(drop=Bus\_Unit bus\_unit\_descr);

set ncoa\_ucoa\_09252016(where=(Bus\_Unit like'08%'));

run;

**proc** **sort** data=MYPATH.NCOA\_UCOA\_09252016 nodup; by dept\_ucoa;**run**;

/\*creating util\_loc\_master table in mypath lib\*/

**proc** **sql**;

connect to teradata (tdpid=tdp2 user=&user pw=&pwd connection=global);

create table mypath.util\_loc\_master as

select \* from connection to teradata

(

select \*

from dl\_res\_svc.util\_loc\_master

);

disconnect from teradata;

**quit**;

/\* adding specialties to the department\*/

**proc** **sql**;

create table map\_spclty as

select \*,

case when a.dept\_desc in(select vdw\_dept\_desc from mypath.mapping\_spclty\_final b) then

(select specialty1 from mypath.mapping\_spclty\_final b where a.dept\_desc=b.vdw\_dept\_desc) end as spclty1,

case when a.dept\_desc in(select vdw\_dept\_desc from mypath.mapping\_spclty\_final b) then

(select specialty2 from mypath.mapping\_spclty\_final b where a.dept\_desc=b.vdw\_dept\_desc) end as spclty2

from map\_all\_ a

order by loc\_id;

**quit**;

### Provider

/\* create variables provider provdr\_brthyr gender kpsc prov\_sid prov\_cpm\_id and data source.\*/

**data** reevtemp.provider;

set dlsvc.util\_prov\_master;

provider=put(prov\_id,best.);

provider\_brthyr=datepart(prov\_dob);

provider\_gender=prov\_sex;

kpsc\_prov\_sid=prov\_sid;

kpsc\_prov\_cpm\_id=prov\_cpm\_id;

kpsc\_datasource=datasource;

format provider\_brthyr year4.;

run;

/\*Generated Macro to remove duplicate specialties\*/

**%macro** map\_specialty();

%let i=1;

%let j=2;

data prov.prov\_spl;

set TRANS\_FINAL\_PROV\_SORT;

%do j=**2** %to **6**;

if specialty&i eq specialty&j then

specialty&j ='';

else specialty&j=specialty&j;

%end;

%let i=2;

%let j=3;

%do j=**3** %to **6**;

if specialty&i eq specialty&j then

specialty&j ='';

else if specialty&i eq '' and specialty&j ne '' then do;

specialty&i=specialty&j;specialty&j='';

end;

else specialty&j=specialty&j;

%end;

%let i=3;

%let j=4;

%do j=**4** %to **6**;

if specialty&i eq specialty&j then

specialty&j ='';

else if specialty&i eq '' and specialty&j ne '' then do;

specialty&i=specialty&j;specialty&j='';

end;

else specialty&j=specialty&j;

%end;

%let i=4;

%let j=5;

%do j=**5** %to **6**;

if specialty&i eq specialty&j then

specialty&j ='';

else if specialty&i eq '' and specialty&j ne '' then do;

specialty&i=specialty&j;specialty&j='';

end;

else specialty&j=specialty&j;

%end;

%let i=5;

%let j=6;

if specialty&i eq specialty&j then

specialty&j ='';

else if specialty&i eq '' and specialty&j ne '' then do;

specialty&i=specialty&j;specialty&j='';

end;

else specialty&j=specialty&j;

run;

**%mend**;

%***map\_specialty***();

### Facility

/\* Clarity Data source Facilities \*/

%include "/home/o222069/login.txt";

**proc** **sql** noerrorstop;

connect to teradata (tdpid=tdp2 user=&user password=&pwd connection=global mode=TERADATA);

execute (drop table DL\_RES\_USER.fac\_clarity ) by teradata;

execute

(create multiset table DL\_RES\_USER.fac\_clarity, no fallback as

(

select distinct

a.fac\_name

,a.medctr

,a.fac\_ncoa

from dl\_res\_svc.util\_loc\_master a

inner join dl\_res\_svc.util\_loc b

on a.loc\_id=b.loc\_id

left join dl\_res\_svc.util\_main c

on b.util\_id=c.util\_id

where c.datasource='CLARITY' and (c.care\_type='HOSPITAL' or c.care\_subtype in (

'OFFICE VISIT'

,'RADIOLOGY'

,'URGENT CARE'

,'ANTICOAGULATION'

,'FUTURE OR STAND'

,'ANESTHESIA'

)))

with data ;

) by teradata;

disconnect from teradata;

**quit**;

**data** dup1\_1(drop=fac\_code fac\_code2 ) dup1\_2(rename=(fac\_code2=fac\_code1)drop=fac\_code fac\_code1) ;

set fac\_cc1;

by fac\_name ADDRESS\_LINE\_1;

retain fac\_code **388**;

if fac\_code1 ne ' ' then output dup1\_1;

if fac\_code1 eq ' ' ;

if first.ADDRESS\_LINE\_1 then do;

fac\_code=fac\_code+**1**;

end;

fac\_code2=left(put(fac\_code,$12.));

output dup1\_2;

RUN;

/\*fianl claims connect ----clarity table\*/

**data** fac\_cc;

set dup1\_1 dup1\_2;

kpsc\_fac\_num=input(fac\_code1,**12.**);

run;

**proc** **sort** data=fac\_cc out=reevtemp.fac\_cc;by kpsc\_fac\_num;**run**;

### PRO Edinburgh Data

**create** **table** dl\_res\_user.o222\_edin **as**(

**select** \* **from** (

**select** max(**case**

**when** lower(cl\_qform.form\_name) **like** '%kp%org%'

**or** lower(cl\_qquest.quest\_name) **like** '%kp%org%'

**or** lower(cl\_qform.form\_name) **like** '%kporg%'

**or** lower(cl\_qquest.quest\_name) **like** '%kporg%'

**then** 'PHR(KP.ORG)'

**else** 'Questionnaires'

**end**) **as** survey\_data\_source

, cl\_qform\_quest.form\_id **as** survey\_id

, substr(cl\_qform.form\_name,1,100) **as** survey\_name

, cl\_qform\_quest.quest\_id **as** question\_id

**from** cl\_qform\_quest

**inner** **join** cl\_qform

**on** cl\_qform.form\_id = cl\_qform\_quest.form\_id

**group** **by** /\*inc.pro\_id, inc.pro\_type, inc.pro\_subtype

,\*/ cl\_qform\_quest.form\_id, cl\_qform.form\_name

, cl\_qform\_quest.quest\_id)x **where** survey\_id **in** ('XXXX'………….’xxxx’))**with** **data**;

**select** \* **from** hcclsc\_ushare.pro\_inclusions\_o222069 **where** survey\_id **in** ('XXXX'………….’xxxx’);

**select** quest\_id,form\_id **from** cl\_qform\_quest **where** form\_id **in** ('XXXX'………….’xxxx’) **order** **by** form\_id;

**show** **table** hcclsc\_ushare.pro\_inclusions\_o222069;

**select** a.\*,b.question **from** hcclsc\_ushare.pro\_inclusions\_o222069 a **inner** **join** cl\_qquest\_ovtm b **on**

a.question\_id=b.quest\_id;

# Internal QA

### POCT QA for Lab

/\* query to check distinct records\*/

**proc** **sql**;create table dis\_records as

select count(distinct mrn) as MRN,count(distinct pat\_enc\_csn\_id) as pat\_enc\_csn\_id,count(distinct AUTHRZING\_PROV\_ID)as prov\_id

from dluser.lab\_poct;

**quit**;

/\* checking for records where result time is earlier than order time\*/

**proc** **sql**;

create table time\_diff as

select \* from dluser.lab\_poct where intck('dtday',result\_time,order\_time) > **0**;

**quit**;

/\*checking for non matching proc\_id's\*/

**proc** **sql**;

create table no\_proc as

select distinct x.order\_proc\_id, y.order\_proc\_id as proc from dluser.lab\_poct x join

dluser.lab\_poct\_nar y on

x.order\_proc\_id=y.order\_proc\_id

where x.order\_proc\_id is null

or y.order\_proc\_id is null;

**quit**;

select b.adyr,extract(month from b.adate )as mon,a.care\_type,a.care\_subtype,b.care\_type as old\_care\_type,b.care\_subtype as old\_care\_subtype,count(distinct util\_id)as util\_count,util\_id

from dl\_res\_svc.u\_cl\_enc\_test a

join dl\_res\_svc.util\_main b on a.pat\_enc\_csn\_id = cast(b.enc\_sid as number)

where b.datasource = 'CLARITY' and b.util\_id is not null

and a.care\_subtype = 'TAV'

group by b.adyr,b.adate,b.care\_type,b.care\_subtype,a.care\_type,a.care\_subtype,util\_id

order by b.adyr,b.adate;

select b.adyr,extract(month from b.adate) as mon,b.care\_type,b.care\_subtype,count(\*)

from dl\_res\_svc.u\_cl\_enc\_test a

join dl\_res\_svc.util\_main b on a.pat\_enc\_csn\_id = cast(b.enc\_sid as number)

where b.util\_id is null

and b.datasource = 'CLARITY'

--and a.care\_subtype = 'TAV'

group by b.adyr,b.adate,b.care\_type,b.care\_subtype

### Code for counts of discrepancies between source tables and KPCC

**select** count(\*) **as** n

, a.care\_subtype

**from** dl\_res\_svc.s\_kpcc\_util\_main **as** a

**left** **outer** **join** dl\_res\_svc.util\_main **as** b

**on** a.mrn=b.mrn

**and** a.adate=b.adate

-- and a.enc\_class=b.enc\_class

**and** a.disposition=b.disposition

**where** b.util\_id **is** **null**

**and** a.adyr < 2016

**group** **by** a.care\_subtype

;

**select** count(\*) **as** n

, b.care\_subtype

**from** dl\_res\_svc.util\_main **as** b

**left** **outer** **join** dl\_res\_svc.s\_kpcc\_util\_main **as** a

**on** a.mrn=b.mrn

**and** a.adate=b.adate

-- and a.enc\_class=b.enc\_class

**and** a.disposition=b.disposition

**where** b.datasource = 'OCPS'

**and** a.util\_id **is** **null**

**and** b.adyr < 2016

**group** **by** b.care\_subtype

;

# Adhoc Reports

### Top 50 Dx codes by Age grp/Enc type

**data** ushare.o222\_demo;

set vdw.demog (keep=mrn birth\_date gender);

birth\_year=year(birth\_date);

age\_14\_=**2014**-birth\_year;

age\_16\_=**2016**-birth\_year;

if age\_14\_=**.** or age\_14\_ <**0** then age\_14=' ';

else if age\_14\_ <**2** then age\_14='0-1 ';

else if **2**<= age\_14\_ <**19** then age\_14='2-18 ';

else if **19**<= age\_14\_ <**35** then age\_14='19-34';

else if **35**<= age\_14\_ <**65** then age\_14='35-65';

else age\_14='65+';

if age\_16\_=**.** or age\_16\_ <**0** then age\_16=' ';

else if age\_16\_ <**2** then age\_16='0-1 ';

else if **2**<= age\_16\_ <**19** then age\_16='2-18 ';

else if **19**<= age\_16\_ <**35** then age\_16='19-34';

else if **35**<= age\_16\_ <**65** then age\_16='35-65';

else age\_16='65+';

run;

%let code=ICD10;

%let yr=16;

%include "/home/o222069/login.txt";

**%macro** joint(enc);

proc sql noerrorstop;

connect to teradata (tdpid=tdp2 user=&user password=&pwd connection=global mode=TERADATA);

execute ( drop table HCCLSC\_USHARE.o222069\_&code.\_&enc.\_16; ) by teradata;

execute

(create multiset table HCCLSC\_USHARE.o222069\_&code.\_&enc.\_16 as

(

select distinct a.\* from HCCLSC\_USHARE.o222069\_dx10\_&yr.\_&enc. a left join hcclsc\_ushare.o222\_dx\_&enc. b

on a.code=b.code)

with data no primary index;

)by teradata;

disconnect from teradata;

quit;

**%mend**;

%***joint***(A);

%***joint***(I);

%***joint***(O);

%***joint***(R);

### Count of Pregnancy CPTCode for the last 15 years

**select** count(**distinct** b.order\_proc\_id),extract(**year** **from** **cast**(a.ordering\_date **as** **date**))**as** oyear

**from** hcclsc.order\_results **as** b

**left** **outer** **join** hcclsc.order\_proc **as** a

**on** a.order\_proc\_id = b.order\_proc\_id

**left** **outer** **join** hcclsc.clarity\_component **as** **c**

**on** b.component\_id = **c**.component\_id

-- inner join kpbisc\_res\_svc.lab\_results e

-- on b.order\_proc\_id=e.order\_proc\_id

**where** a.cpt\_code='81025' **and** (a.order\_type\_c =1207 **or** a.order\_type\_c=12139) **and** a.order\_proc\_id **is** **not** **null**

**group** **by** oyear;

# Maintenance (Quarterly ETL/QA/Validation)

Department

Provider

Facility

Claims

VitalSigns

BMD

PRO

Social\_HX

PCORnet