

```
1  -- Function: get_core_namewa(character varying, character varying, character varying,
2  character varying, character varying, integer, integer)
3
4  -- DROP FUNCTION get_core_namewa(character varying, character varying, character varying,
5  character varying, character varying, integer, integer);
6
7  -- select get_core_namewa('merged','id','trade_name','merged','core_merged_names',1377500,
8  10) ;
9
10 --
11 CREATE OR REPLACE FUNCTION get_core_namewa(character varying, character varying, character
12 varying, character varying, character varying, integer, integer)
13 RETURNS character varying AS
14 '
15
16 /* Sample invocation:  SELECT get_core_name(^business^,^id^,^conformedname^, ^LEGAL^, 0,
17 10000) ;
18
19                        Where ^ are actually apostrophes.
20
21 *****
22 *****
23 ALERTS !   ALERTS !   ALERTS !
24
25 An interm TABLE MUST EXIST:
26
27 -- DROP TABLE possibilities_4_value ;
28 * CREATE TABLE possibilities_4_value (mightbe character varying(500), run_key integer
29 ) ;
30
31 -----
32 The final TABLE MUST EXIST:
33
34 * CREATE TABLE core_sourcemoniker_names (sourceid bigint ,
35 legal_origval varchar(120), legal_trimval varchar(120),
36 public_origval varchar(120), public_trimval
37 varchar(120),
38 entrytimestamp timestamp without time zone,
39 updatetimestamp timestamp without time zone default
40 now() ) ;
41
42 There is a plural in the tablename.
43
44 -----
45 The following two tables must exist:
46
47 * CREATE TABLE suffixes ( chktext VARCHAR(60), sortorder smallint ) ;
48
49
50 chktext      | sortorder
51 -----+-----
52 CORPORATION  | 11
53 COMPANY      | 7      ETC (sortorder = length)
```

```
51
52 * CREATE TABLE punctuation ( chkpunct VARCHAR(20), sortorder smallint, puncttype
53   VARCHAR(20) ) ;
54
55   chkpunct          | sortorder | puncttype
56   -----+-----+-----
57   .,/~@#$$%^&*-_+=<>` | 19        | after      <- Note that there is a preceeding space
58                   | 2         | b4         The sortorder value illuminates for
59                   you
60                   | 1         | b4         the number of spaces before or after
61   ,                 | 3         | b4         the punctuation.
62   ,                 | 2         | b4         Like above, sortorder is the # of
63   chars.
64   ,                 | 1         | b4
65   ,                 | 2         | b4
66   ,                 | 3         | b4         Add in the same way for a period.
67                                     There should be 13 records, at least.
68
69
70 ALERTS !   ALERTS !   ALERTS !
71 *****
72
73 *****
74 select * from core_merged_names
75 where (select case when m1>m2 then m1 else m2 end
76        from (select extract(epoch from max(entrytimestamp))::INT as m1
77              , extract(epoch from max(updatetimestamp))::INT as m2
78              from core_merged_names
79              ) x
80        )
81 in (extract(epoch from updatetimestamp)::INT, extract(epoch from entrytimestamp)::INT) ;
82
83 select count(*) from core_merged_names where sourceid <= 2188593; -- = 520378
84 select count(*) from merged where id <= 2188593; -- = 1377499
85
86 select sourceid, orig_name from core_merged_names order by sourceid ;
87
88
89 *****
90
91 Because of the time it takes for this to run, it is best to call it via a shell
92 script.
93 See script named: "get_core_name.sh".
94
95 */
96
97 DECLARE
98   TableName alias for $1 ;
99   KeyColName alias for $2 ;
100  ValueColName alias for $3 ;
```

```
101 TblSrcTyp      alias for $4 ;
102 TblDest       alias for $5 ;
103 vOffset       alias for $6 ;
104 vLimit        alias for $7 ;
105 aRec          RECORD ;
106 afield        varchar(120) ;
107 origfield     varchar(120) ;
108 sid           bigint ;
109 ComnWord      RECORD ;
110 punctRecA     RECORD ;
111 PunctB4Token  RECORD ;
112 token         varchar(120) ;
113 punct_b4      varchar(20) ;
114 punct_after   varchar(20) ;
115 chkstr        varchar(100) ;
116 TableSrcType  varchar(20) ;
117 TableDest     varchar(20) ;
118 sufpos        INT ;
119 aval          varchar(120) ;
120 best_trimmed  varchar(120) ;
121 aCount        INT DEFAULT 0 ;
122 I             INT ;
123 L             INT DEFAULT 0 ;
124 t             INT ;
125 tl1           INT ;
126 tl2           INT ;
127 tl3           INT ;
128 tl4           INT ;
129 ExecuteString varchar(500) ;
130 UpdateString  VARCHAR(500) ;
131 UpdateStringGo VARCHAR(500) ;
132 InsertString  VARCHAR(500) ;
133 InsertStringGo VARCHAR(500) ;
134 HaveAValue    INT ;
135 SidFirst      INT ;
136 SidLast       INT ;
137 SkipCo        INT ;
138
139 RightNow      TIMESTAMP WITHOUT TIME ZONE ;
140 InitSecs0     INT DEFAULT 0 ;
141 ElapSecs0     INT DEFAULT 0 ;
142 InitSecs      INT DEFAULT 0 ;
143 ElapSecs      INT DEFAULT 0 ;
144 SumElapSecs1  INT DEFAULT 0 ;
145 SumElapSecs2  INT DEFAULT 0 ;
146 ElapSelectSecs INT DEFAULT 0 ;
147 PctCheckUpdate INT DEFAULT 0 ;
148 PctDoingUpdate INT DEFAULT 0 ;
149
150
```

```
151
152 BEGIN
153
154
155 -- Debugging levels
156 t := 4 ;
157 t11 := t ;
158 t12 := t11-1 ;
159 t13 := t12-1 ;
160 t14 := t13-1 ;
161
162 -----
163 TableDest := TblDest ;
164 TableSrcType := TblSrcTyp ; -- No checking on this (yet)
165
166 IF upper(TableSrcType)='MERGED' OR lower(TableSrcType)='merged' THEN
167     TableSrcType='MERGED' ;
168 ELSIF upper(TableSrcType)='SPDB' OR lower(TableSrcType)='spdb' THEN
169     TableSrcType='SPDB' ;
170 ELSIF upper(TableSrcType)='DDDB' OR lower(TableSrcType)='dddb' THEN
171     TableSrcType='DDDB' ;
172 ELSE
173     RAISE EXCEPTION 'This SQL Script currently can only INSERT or UPDATE cleaned names
174         into core_xxxx_names for destinations designaged as "MERGED" or "SPDB" or "DDDB"
175         Name Types, (the 4th parameter).';
176 END IF ;
177
178
179 IF TableDest='core_merged_names' THEN
180     InsertString := 'INSERT INTO core_merged_names ' ;
181     UpdateString := 'UPDATE core_merged_names SET orig_name = ' ;
182 ELSIF TableDest='core_spdb_names' THEN
183     InsertString := 'INSERT INTO core_spdb_names ' ;
184     UpdateString := 'UPDATE core_spdb_names SET orig_name = ' ;
185 ELSIF TableDest='core_dddb_names' THEN
186     InsertString := 'INSERT INTO core_dddb_names ' ;
187     UpdateString := 'UPDATE core_dddb_names SET orig_name = ' ;
188 END IF ;
189
190 InsertString := InsertString || '(sourceid, orig_name, trim_name, entrytimestamp)
191     VALUES ( ' ;
192
193 -----
194
195 SELECT INTO InitSecs0 secs_get() ;
196
197 select into punct_after chkpunct from punctuation where puncttype='after' ;
198
199 SELECT INTO ExecuteString lib__gen_execstring1(TableName, KeyColName, ValueColName,
200     vOffset, vLimit) ;
```

```
201
202 -- =====
203 -- =====
204 FOR aRec IN EXECUTE ExecuteString LOOP
205
206
207
208     aCount := aCount + 1 ;
209
210     sid     := aRec.ID ;
211     afield  := aRec.ValueCol;
212 -- PERFORM RNotice3(1,'aCount',aCount::VARCHAR,'sid',sid::VARCHAR,'afield',afield)
213 ;
214
215     IF length(afield) != 0 THEN
216
217         origfield := afield ;
218         IF aCount = 1 THEN
219             SidFirst := sid ;
220             SELECT INTO ElapSelectSecs secs_get_elapsed(InitSecs0) ;
221             ELSIF aCount = vLimit THEN
222                 SidLast := sid ;
223             END IF ;
224
225             afield := trim(both ' ' ' from afield) ;
226             afield := trim(both ' ' ' from afield) ;
227             afield := trim(both ' ' ' from afield) ;
228
229             INSERT INTO possibilities_4_value (run_key, mightbe) VALUES(InitSecs0,afield) ;
230
231 -- PERFORM Rnotice1(1,'Raw Data, afield',afield) ;
232
233 -- =====
234 -- Check for punctuation that might just be hanging out at the end of the Name
235
236     aval := trim(trailing punct_after from afield) ;
237
238     if length(afield) != length(aval) then
239         INSERT INTO possibilities_4_value (run_key, mightbe) VALUES(InitSecs0,aval) ;
240         aval := trim(both ' ' ' from aval) ;
241         afield := aval ;
242     end if ;
243
244 -- PERFORM RNotice2(1,'Just after JUST punct at top',' ','afield',afield) ;
245
246
247 -- =====
248
249     FOR I IN 1..2 LOOP                -- There are often multiple occurrences of punct b4
250         suffixes to remove
```

```
251
252     IF length(afield) != 0 THEN
253
254         -----
255         -- Loop through common words that might or might not be there, or
256         -- they are there but with other abbreviations
257
258         FOR ComnWord IN SELECT * FROM suffixes order by sortorder desc LOOP
259
260             token := ComnWord.chktext ;
261 -- PERFORM RNotice2(1,'I',I::text::varchar,'token Checking',token) ; --
262
263         -----
264         -- Check for the text that might be a necessary part of the company name
265
266         SkipCo := 0 ;
267         IF 1 = 2 THEN -- We do not want to do this for WA because did
268             not for SPDB or DDDDB
269             L := length(afield) ;
270             IF substr(afield,L-4+1) = '& CO' OR substr(afield,L-9+1) = '& COMPANY'
271                 THEN
272                 SkipCo := 1 ;
273             END IF ;
274         END IF ;
275
276         IF NOT (SkipCo = 1 AND (token = 'CO' OR token = 'COMPANY')) THEN
277
278             -----
279             -- Loop through the combinations of periods and commas and spaces
280             -- looking for them as part of STUFF before the common text to eliminate
281
282             FOR PunctB4Token IN SELECT * FROM punctuation where puncttype = 'b4' order
283                 by sortorder desc LOOP
284
285                 punct_b4 := PunctB4Token.chkpunct ;
286                 aval := ' ' ;
287
288 -- PERFORM Rnotice3(1,'I',I::VARCHAR,'token',token,'punct_b4',punct_b4) ;
289
290                 chkstr := punct_b4 || token ;
291
292                 IF substring(afield from length(afield)-length(chkstr)+1) = chkstr THEN
293
294                     aval := substr(afield,1,length(afield)-length(chkstr)) ;
295                     aval := trim(both ' ' from aval) ;
296                     afield := aval ;
297
298                     aval := trim(trailing punct_after from afield) ;
299                     IF length(afield) != length(aval) THEN
300                         afield := aval ;
```

```
301         END IF ;
302
303         INSERT INTO possibilities_4_value (run_key, mightbe)
304             VALUES(InitSecs0,aval) ;
305
306         END IF ;           -- We have above some punctuation before the suffix word
307
308         END LOOP ;         -- EOL Punctuations before suffix word
309
310         END IF ;           -- Skip the special case where we want to keep the token
311
312 -- PERFORM RNotice2(1,'i',i::TEXT::VARCHAR,'afield',afield) ;
313
314 -- -----
315 -- JUST the core mightbe the token w/o looking for punctuation before it
316
317 IF I = 1 AND SkipCo = 0 THEN
318
319     aval=' ' ;
320     chkstr := token ;
321     sufpos=strpos(afield,chkstr) ;
322
323     IF sufpos != 0 AND sufpos = length(afield)-length(chkstr)+1 THEN
324
325         aval := substr(afield,1,sufpos-1) ;
326         aval := trim(both ' ' ' ' from aval) ;
327         afield := aval ;
328         INSERT INTO possibilities_4_value (run_key, mightbe)
329             VALUES(InitSecs0,aval) ;
330
331         END IF ;           -- Get the suffix word by itself out of the field
332
333         END IF ;           -- Skip because of special combination
334
335     END LOOP ;             -- FOR tokens
336
337 END IF ;                   -- If have length
338
339
340 -- =====
341 -- Check for the after-mightbe punctuation once more
342
343 aval := trim(trailing punct_after from afield) ;
344 aval := trim(both ' ' ' ' from aval) ;
345
346 if length(afield) != length(aval) then
347     INSERT INTO possibilities_4_value (run_key, mightbe) VALUES(InitSecs0,aval) ;
348     afield := aval ;
349 end if ;
350
```

```
351     END LOOP ;          -- I LOOP
352
353
354     -- =====
355
356 -- PERFORM rnotice2(1,'afield',afield,'length',length(afield)::TEXT::VARCHAR) ;
357
358     SELECT INTO best_trimmed          mightbe
359     FROM          possibilities_4_value
360     WHERE         run_key = InitSecs0
361     AND          length(mightbe) = ( SELECT MIN(length(mightbe)) FROM
362     possibilities_4_value )
363     LIMIT 1 ;  -- <=== THIS IS NOT GREAT -- We might have a better one of = length
364
365     DELETE FROM possibilities_4_value WHERE run_key = InitSecs0 ; -- vacuum full
366     possibilities_4_value ;
367
368     -- =====
369
370     SELECT INTO InitSecs  secs_get() ;
371
372     IF TableDest = 'core_merged_names' THEN
373         SELECT INTO HaveAValue 1 FROM core_merged_names WHERE sourceid = sid ;
374     ELSIF TableDest = 'core_spdb_names' THEN
375         SELECT INTO HaveAValue 1 FROM core_spdb_names  WHERE sourceid = sid ;
376     ELSIF TableDest = 'core_dddb_names' THEN
377         SELECT INTO HaveAValue 1 FROM core_dddb_names  WHERE sourceid = sid ;
378     END IF ;
379
380     SELECT INTO ElapSecs  secs_get_elapsed(InitSecs) ;
381     SumElapSecs1 := SumElapSecs1 + ElapSecs ;
382     RightNow := timeofday()::TIMESTAMP WITHOUT TIME ZONE ;
383
384     -- select get_core_namewa('raw_special_databases','id', 'bus_name',
385     -- 'spdb',0,10)
386     -- select get_core_namewa('raw_dddb',          'id',
387     -- 'companyname','dddb',0,10)
388
389 -- PERFORM
390 Rnotice3(1,'sid',sid::TEXT::VARCHAR,'origfield',origfield,'best_trimmed',
391 best_trimmed) ;
392
393     IF HaveAValue IS NULL THEN
394
395         InsertStringGo := InsertString || sid || ', ' || quote_literal(origfield) ||
396         ', ' || quote_literal(best_trimmed) || ', ' || quote_literal(RightNow) || ' '
397         ) ; '' ;
398
399 -- PERFORM Rnotice1(1,'InsertStringGo',InsertStringGo) ;
400
```

```
401         EXECUTE InsertStringGo ;
402
403     ELSE
404
405         UpdateStringGo := UpdateString || quote_literal(trim(origfield)) || ' '
406                        , trim_name = ' ' || quote_literal(best_trimmed) || ' '
407                        , updatetimestamp = ' ' || quote_literal(RightNow) || ' '
408                        WHERE sourceid = ' ' || sid || ' ' ; ' ' ;
409
410 -- PERFORM Rnotice1(1,'UpdateStringGo',UpdateStringGo) ;
411
412     SELECT INTO InitSecs  secs_get() ;
413
414     EXECUTE UpdateStringGo ;
415
416     SELECT INTO ElapSecs  secs_get_elapsed(InitSecs) ;
417     SumElapSecs2 := SumElapSecs2 + ElapSecs ;
418
419     END IF ;      -- Check whether to do an insert or an update
420
421     END IF ;      -- We started with something
422
423     -- =====
424
425 END LOOP ;      -- afield
426
427 SELECT INTO ElapSecs0  secs_get_elapsed(InitSecs0) ;
428
429 IF ElapSecs0 = 0 THEN
430     PctCheckUpdate := 0 ;
431     pctDoingUpdate := 0 ;
432 ELSE
433     PctCheckUpdate := round(100*SumElapSecs1/ElapSecs0, 0) ;
434     PctDoingUpdate := round(100*SumElapSecs2/ElapSecs0, 0) ;
435 END IF ;
436
437
438 RETURN 'Cleaned ' || ValueColName || ' values for rows ' || vOffset || ' to ' ||
439 vOffset+vLimit || ', ' || KeyColName || ' values from ' || SidFirst || ' to ' ||
440 SidLast || '. SELECTing the data took ' || ElapSelectSecs || 'seconds, looking for
441 updates used ' || PctCheckUpdate || '% and performing updates was ' ||
442 PctDoingUpdate || '% of ' || ElapSecs0 || ' total seconds.' ;
443
444 --END ; -- The Phantom END for BEGIN for function get_core_name()
445
446 END ;
447 LANGUAGE 'plpgsql' VOLATILE;
448
449 -- select
450 get_core_namewa('merged','id','trade_name','merged','core_merged_names',853350,5) ;
```