Business Rule Tagging & Extraction Report
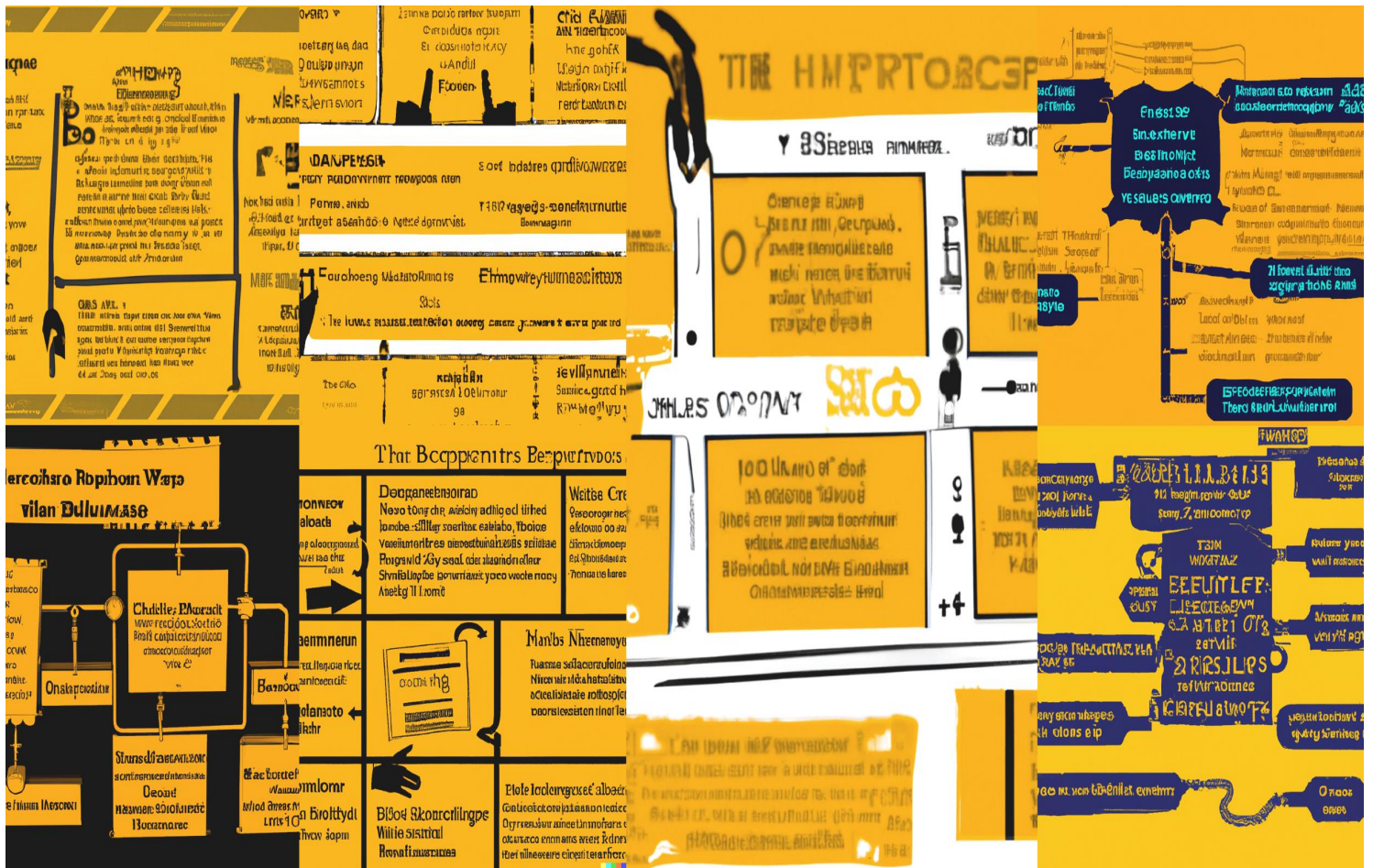Markers: D=business data, R=business rule

Business Rule Tagging & Extraction (BRTE) v2.4

C L I E N T   C O N F I D E N T I A L

TAGGED BUSINESS DATA & BUSINESS RULES

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    1               IDENTIFICATION DIVISION.
    2               PROGRAM-ID.
    3                   COACTUPC.
    4               DATE-WRITTEN.
    5                   JULY 2022.
    6               DATE-COMPILED.
    7                   TODAY.
    8               ENVIRONMENT DIVISION.
    9               INPUT-OUTPUT SECTION.
   10               DATA DIVISION.
   11               WORKING-STORAGE SECTION.
   12               01  WS-MISC-STORAGE.
   13                   05 WS-CICS-PROCESSNG-VARS.
   14 D                     07 WS-RESP-CD                        PIC S9(09) COMP
   15 D                                                         VALUE ZEROS.
   16 D                     07 WS-REAS-CD                        PIC S9(09) COMP
   17 D                                                         VALUE ZEROS.
   18 D                     07 WS-TRANID                         PIC X(4)
   19 D                                                         VALUE SPACES.
   20 D                     07 WS-UCTRANS                        PIC X(4)
   21 D                                                         VALUE SPACES.
   22                   05  WS-GENERIC-EDITS.
   23 D                     10 WS-EDIT-VARIABLE-NAME             PIC X(25).
   24 D                     10 WS-EDIT-SIGNED-NUMBER-9V2-X       PIC X(15).
   25 D                     10 WS-FLG-SIGNED-NUMBER-EDIT         PIC X(1).
   26                         88  FLG-SIGNED-NUMBER-ISVALID      VALUE LOW-VALUES.
   27                         88  FLG-SIGNED-NUMBER-NOT-OK       VALUE '0'.
   28                         88  FLG-SIGNED-NUMBER-BLANK        VALUE 'B'.
   29 D                     10 WS-EDIT-ALPHANUM-ONLY             PIC X(256).
   30 D                     10 WS-EDIT-ALPHANUM-LENGTH           PIC S9(4) COMP-3.
   31 D                     10 WS-EDIT-ALPHA-ONLY-FLAGS          PIC X(1).
   32                         88  FLG-ALPHA-ISVALID              VALUE LOW-VALUES.
   33                         88  FLG-ALPHA-NOT-OK               VALUE '0'.
   34                         88  FLG-ALPHA-BLANK                VALUE 'B'.
   35 D                     10 WS-EDIT-ALPHANUM-ONLY-FLAGS       PIC X(1).
   36                         88  FLG-ALPHNANUM-ISVALID          VALUE LOW-VALUES.
   37                         88  FLG-ALPHNANUM-NOT-OK           VALUE '0'.
   38                         88  FLG-ALPHNANUM-BLANK            VALUE 'B'.
   39 D                     10 WS-EDIT-MANDATORY-FLAGS           PIC X(1).
   40                         88  FLG-MANDATORY-ISVALID          VALUE LOW-VALUES.
   41                         88  FLG-MANDATORY-NOT-OK           VALUE '0'.
   42                         88  FLG-MANDATORY-BLANK            VALUE 'B'.
   43 D                     10 WS-EDIT-YES-NO                    PIC X(1)
   44 D                                                         VALUE 'N'.
   45                         88 FLG-YES-NO-ISVALID              VALUES 'Y', 'N'.
   46                         88 FLG-YES-NO-NOT-OK               VALUE '0'.
   47                         88 FLG-YES-NO-BLANK                VALUE 'B'.
   48 D                     10 WS-EDIT-US-PHONE-NUM              PIC X(15).
   49 D                     10 WS-EDIT-US-PHONE-NUM-X REDEFINES
   50 D                         WS-EDIT-US-PHONE-NUM.
   51                         20 FILLER                          PIC X(1).
   52 D                         20 WS-EDIT-US-PHONE-NUMA          PIC X(3).
   53 D                         20 WS-EDIT-US-PHONE-NUMA-N REDEFINES
   54 D                             WS-EDIT-US-PHONE-NUMA          PIC 9(3).
   55                         20 FILLER                          PIC X(1).
   56 D                         20 WS-EDIT-US-PHONE-NUMB          PIC X(3).
   57 D                         20 WS-EDIT-US-PHONE-NUMB-N REDEFINES
   58 D                             WS-EDIT-US-PHONE-NUMB          PIC 9(3).
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59                       20 FILLER                              PIC X(1).
60 D                     20 WS-EDIT-US-PHONE-NUMC               PIC X(4).
61 D                     20 WS-EDIT-US-PHONE-NUMC-N REDEFINES
62 D                        WS-EDIT-US-PHONE-NUMC               PIC 9(4).
63                       20 FILLER                              PIC X(2).
64 D              10 WS-EDIT-US-PHONE-NUM-FLGS.
65                     88 WS-EDIT-US-PHONE-IS-INVALID       VALUE '000'.
66                     88 WS-EDIT-US-PHONE-IS-VALID         VALUE LOW-VALUES.
67 D                     20 WS-EDIT-US-PHONEA-FLG              PIC X(01).
68                         88 FLG-EDIT-US-PHONEA-ISVALID     VALUE LOW-VALUES.
69                         88 FLG-EDIT-US-PHONEA-NOT-OK      VALUE '0'.
70                         88 FLG-EDIT-US-PHONEA-BLANK       VALUE 'B'.
71 D                     20 WS-EDIT-EDIT-US-PHONEB             PIC X(01).
72                         88 FLG-EDIT-US-PHONEB-ISVALID     VALUE LOW-VALUES.
73                         88 FLG-EDIT-US-PHONEB-NOT-OK      VALUE '0'.
74                         88 FLG-EDIT-US-PHONEB-BLANK       VALUE 'B'.
75 D                     20 WS-EDIT-EDIT-PHONEC                PIC X(01).
76                         88 FLG-EDIT-US-PHONEC-ISVALID     VALUE LOW-VALUES.
77                         88 FLG-EDIT-US-PHONEC-NOT-OK      VALUE '0'.
78                         88 FLG-EDIT-US-PHONEC-BLANK       VALUE 'B'.
79 D              10 WS-EDIT-US-SSN.
80 D                     20 WS-EDIT-US-SSN-PART1               PIC X(3).
81 D                     20 WS-EDIT-US-SSN-PART1-N REDEFINES
82 D                        WS-EDIT-US-SSN-PART1               PIC 9(3).
83                         88 INVALID-SSN-PART1   VALUES       0,
84                                                             666,
85                                                             900 THRU 999.
86 D                     20 WS-EDIT-US-SSN-PART2               PIC X(2).
87 D                     20 WS-EDIT-US-SSN-PART2-N REDEFINES
88 D                        WS-EDIT-US-SSN-PART2               PIC 9(2).
89 D                     20 WS-EDIT-US-SSN-PART3               PIC X(4).
90 D                     20 WS-EDIT-US-SSN-PART3-N REDEFINES
91 D                        WS-EDIT-US-SSN-PART3               PIC 9(4).
92 D              10 WS-EDIT-US-SSN-N REDEFINES
93 D                 WS-EDIT-US-SSN                            PIC 9(09).
94 D              10 WS-EDIT-US-SSN-FLGS.
95                     88 WS-EDIT-US-SSN-IS-INVALID         VALUE '000'.
96                     88 WS-EDIT-US-SSN-IS-VALID           VALUE LOW-VALUES.
97 D                     20 WS-EDIT-US-SSN-PART1-FLGS          PIC X(01).
98                         88 FLG-EDIT-US-SSN-PART1-ISVALID VALUE LOW-VALUES.
99                         88 FLG-EDIT-US-SSN-PART1-NOT-OK  VALUE '0'.
100                        88 FLG-EDIT-US-SSN-PART1-BLANK   VALUE 'B'.
101 D                    20 WS-EDIT-US-SSN-PART2-FLGS          PIC X(01).
102                        88 FLG-EDIT-US-SSN-PART2-ISVALID VALUE LOW-VALUES.
103                        88 FLG-EDIT-US-SSN-PART2-NOT-OK  VALUE '0'.
104                        88 FLG-EDIT-US-SSN-PART2-BLANK   VALUE 'B'.
105 D                    20 WS-EDIT-US-SSN-PART3-FLGS          PIC X(01).
106                        88 FLG-EDIT-US-SSN-PART3-ISVALID VALUE LOW-VALUES.
107                        88 FLG-EDIT-US-SSN-PART3-NOT-OK  VALUE '0'.
108                        88 FLG-EDIT-US-SSN-PART3-BLANK   VALUE 'B'.
109              05 WS-CALCULATION-VARS.
110 D                10 WS-DIV-BY                              PIC S9(4) COMP-3
111 D                                                         VALUE 4.
112 D                10 WS-DIVIDEND                            PIC S9(4) COMP-3
113 D                                                         VALUE 0.
114 D                10 WS-REMAINDER                           PIC S9(4) COMP-3
115 D                                                         VALUE 0.
116 D                10 WS-CURR-DATE                           PIC X(21)
117 D                                                         VALUE SPACES.
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118 D               10 WS-EDIT-DATE-CCYYMMDD.
119                    20 WS-EDIT-DATE-CCYY.
120 D                     25 WS-EDIT-DATE-CC                PIC X(2).
121 D                     25 WS-EDIT-DATE-CC-N REDEFINES    WS-EDIT-DATE-CC
122 D                                                       PIC 9(2).
123                          88 THIS-CENTURY                VALUE 20.
124                          88 LAST-CENTURY                VALUE 19.
125 D                     25 WS-EDIT-DATE-YY                PIC X(2).
126 D                     25 WS-EDIT-DATE-YY-N REDEFINES    WS-EDIT-DATE-YY
127 D                                                       PIC 9(2).
128 D                    20 WS-EDIT-DATE-CCYY-N  REDEFINES
129 D                       WS-EDIT-DATE-CCYY                PIC 9(4).
130 D                    20 WS-EDIT-DATE-MM                  PIC X(2).
131 D                    20 WS-EDIT-DATE-MM-N REDEFINES WS-EDIT-DATE-MM
132 D                                                       PIC 9(2).
133 D                       88 WS-VALID-MONTH               VALUES
134 D                                                       1 THROUGH 12.
135                         88 WS-31-DAY-MONTH              VALUES
136                                                         1, 3, 5, 7,
137                                                         8, 10, 12.
138                         88 WS-FEBRUARY                  VALUE 2.
139 D                    20 WS-EDIT-DATE-DD                 PIC X(2).
140 D                    20 WS-EDIT-DATE-DD-N REDEFINES WS-EDIT-DATE-DD
141 D                                                       PIC 9(2).
142 D                       88 WS-VALID-DAY                 VALUES
143 D                                                       1 THROUGH 31.
144                         88 WS-DAY-31                    VALUE 31.
145                         88 WS-DAY-30                    VALUE 30.
146                         88 WS-DAY-29                    VALUE 29.
147 D                       88 WS-VALID-FEB-DAY             VALUES
148 D                                                       1 THROUGH 28.
149 D               10 WS-EDIT-DATE-CCYYMMDD-N REDEFINES
150 D                  WS-EDIT-DATE-CCYYMMDD                PIC 9(8).
151 D               10 WS-EDIT-DATE-BINARY                 PIC S9(9) BINARY.
152 D               10 WS-CURRENT-DATE.
153 D                  20 WS-CURRENT-DATE-YYYYMMDD         PIC X(8).
154 D                  20 WS-CURRENT-DATE-YYYYMMDD-N REDEFINES
155 D                     WS-CURRENT-DATE-YYYYMMDD          PIC 9(8).
156 D                  20 WS-CURRENT-DATE-BINARY           PIC S9(9) BINARY.
157 D               10 WS-EDIT-DATE-FLGS.
158                    88 WS-EDIT-DATE-IS-VALID             VALUE LOW-VALUES.
159                    88 WS-EDIT-DATE-IS-INVALID           VALUE '000'.
160 D                  20 WS-EDIT-YEAR-FLG                 PIC X(01).
161                       88 FLG-YEAR-ISVALID              VALUE LOW-VALUES.
162                       88 FLG-YEAR-NOT-OK               VALUE '0'.
163                       88 FLG-YEAR-BLANK                VALUE 'B'.
164 D                  20 WS-EDIT-MONTH                    PIC X(01).
165                       88 FLG-MONTH-ISVALID             VALUE LOW-VALUES.
166                       88 FLG-MONTH-NOT-OK              VALUE '0'.
167                       88 FLG-MONTH-BLANK               VALUE 'B'.
168 D                  20 WS-EDIT-DAY                      PIC X(01).
169                       88 FLG-DAY-ISVALID               VALUE LOW-VALUES.
170                       88 FLG-DAY-NOT-OK                VALUE '0'.
171                       88 FLG-DAY-BLANK                 VALUE 'B'.
172 D               10 WS-DATE-FORMAT                      PIC X(08)
173 D                                                      VALUE 'YYYYMMDD'.
174 D               10 WS-DATE-VALIDATION-RESULT .
175 D                  20 WS-SEVERITY                      PIC X(04).
176 D                  20 WS-SEVERITY-N                    REDEFINES
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177 D                    WS-SEVERITY                    PIC 9(4).
178                   20 FILLER                         PIC X(11)
179                                                     VALUE 'MESG CODE:'.
180 D                 20 WS-MSG-NO                       PIC X(04).
181 D                 20 WS-MSG-NO-N                     REDEFINES
182 D                    WS-MSG-NO                       PIC 9(4).
183                   20 FILLER                          PIC X(01)
184                                                      VALUE SPACE.
185 D                 20 WS-RESULT                       PIC X(15).
186                   20 FILLER                          PIC X(01)
187                                                      VALUE SPACE.
188                   20 FILLER                          PIC X(09)
189                                                      VALUE 'TSTDATE:'.
190 D                 20 WS-DATE                         PIC X(10).
191                   20 FILLER                          PIC X(01)
192                                                      VALUE SPACE.
193                   20 FILLER                          PIC X(10)
194                                                      VALUE 'MASK USED:' .
195 D                 20 WS-DATE-FMT                     PIC X(10).
196                   20 FILLER                          PIC X(01)
197                                                      VALUE SPACE.
198                   20 FILLER                          PIC X(03)
199                                                      VALUE SPACES.
200 D           05  WS-DATACHANGED-FLAG                  PIC X(1).
201 D              88  NO-CHANGES-FOUND                  VALUE '0'.
202                88  CHANGE-HAS-OCCURRED               VALUE '1'.
203 D           05  WS-INPUT-FLAG                        PIC X(1).
204                88  INPUT-OK                          VALUE '0'.
205                88  INPUT-ERROR                       VALUE '1'.
206                88  INPUT-PENDING                     VALUE LOW-VALUES.
207 D           05  WS-RETURN-FLAG                       PIC X(1).
208                88  WS-RETURN-FLAG-OFF                VALUE LOW-VALUES.
209                88  WS-RETURN-FLAG-ON                 VALUE '1'.
210 D           05  WS-PFK-FLAG                          PIC X(1).
211                88  PFK-VALID                         VALUE '0'.
212                88  PFK-INVALID                       VALUE '1'.
213 D           05  WS-EDIT-ACCT-FLAG                    PIC X(1).
214 D              88  FLG-ACCTFILTER-ISVALID            VALUE '1'.
215 D              88  FLG-ACCTFILTER-NOT-OK             VALUE '0'.
216 D              88  FLG-ACCTFILTER-BLANK              VALUE ' '.
217 D           05  WS-EDIT-CUST-FLAG                    PIC X(1).
218                88  FLG-CUSTFILTER-ISVALID            VALUE '1'.
219                88  FLG-CUSTFILTER-NOT-OK             VALUE '0'.
220                88  FLG-CUSTFILTER-BLANK              VALUE ' '.
221             05 WS-NON-KEY-FLAGS.
222 D              10  WS-EDIT-ACCT-STATUS               PIC  X(1).
223                   88  FLG-ACCT-STATUS-ISVALID        VALUES 'Y', 'N'.
224                   88  FLG-ACCT-STATUS-NOT-OK         VALUE '0'.
225                   88  FLG-ACCT-STATUS-BLANK          VALUE 'B'.
226 D              10  WS-EDIT-CREDIT-LIMIT              PIC  X(1).
227                   88  FLG-CRED-LIMIT-ISVALID         VALUE LOW-VALUES.
228                   88  FLG-CRED-LIMIT-NOT-OK          VALUE '0'.
229                   88  FLG-CRED-LIMIT-BLANK           VALUE 'B'.
230 D              10  WS-EDIT-CASH-CREDIT-LIMIT         PIC  X(1).
231                   88  FLG-CASH-CREDIT-LIMIT-ISVALID  VALUE LOW-VALUES.
232                   88  FLG-CASH-CREDIT-LIMIT-NOT-OK   VALUE '0'.
233                   88  FLG-CASH-CREDIT-LIMIT-BLANK    VALUE 'B'.
234 D              10  WS-EDIT-CURR-BAL                  PIC  X(1).
235                   88  FLG-CURR-BAL-ISVALID           VALUE LOW-VALUES.
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236                     88  FLG-CURR-BAL-NOT-OK                 VALUE '0'.
237                     88  FLG-CURR-BAL-BLANK                  VALUE 'B'.
238 D          10  WS-EDIT-CURR-CYC-CREDIT              PIC  X(1).
239                     88  FLG-CURR-CYC-CREDIT-ISVALID  VALUE LOW-VALUES.
240                     88  FLG-CURR-CYC-CREDIT-NOT-OK   VALUE '0'.
241                     88  FLG-CURR-CYC-CREDIT-BLANK    VALUE 'B'.
242 D          10  WS-EDIT-CURR-CYC-DEBIT               PIC  X(1).
243                     88  FLG-CURR-CYC-DEBIT-ISVALID   VALUE LOW-VALUES.
244                     88  FLG-CURR-CYC-DEBIT-NOT-OK    VALUE '0'.
245                     88  FLG-CURR-CYC-DEBIT-BLANK     VALUE 'B'.
246 D          10 WS-EDIT-DT-OF-BIRTH-FLGS.
247                     88 WS-EDIT-DT-OF-BIRTH-INVALID   VALUE '000'.
248                     88 WS-EDIT-DT-OF-BIRTH-ISVALID   VALUE LOW-VALUES.
249 D             20 WS-EDIT-DT-OF-BIRTH-YEAR-FLG     PIC X(01).
250                     88 FLG-DT-OF-BIRTH-YEAR-ISVALID  VALUE LOW-VALUES.
251                     88 FLG-DT-OF-BIRTH-YEAR-NOT-OK   VALUE '0'.
252                     88 FLG-DT-OF-BIRTH-YEAR-BLANK    VALUE 'B'.
253 D             20 WS-EDIT-DT-OF-BIRTH-MONTH        PIC X(01).
254                     88 FLG-DT-OF-BIRTH-MONTH-ISVALID VALUE LOW-VALUES.
255                     88 FLG-DT-OF-BIRTH-MONTH-NOT-OK  VALUE '0'.
256                     88 FLG-DT-OF-BIRTH-MONTH-BLANK   VALUE 'B'.
257 D             20 WS-EDIT-DT-OF-BIRTH-DAY          PIC X(01).
258                     88 FLG-DT-OF-BIRTH-DAY-ISVALID   VALUE LOW-VALUES.
259                     88 FLG-DT-OF-BIRTH-DAY-NOT-OK    VALUE '0'.
260                     88 FLG-DT-OF-BIRTH-DAY-BLANK     VALUE 'B'.
261 D          10  WS-EDIT-FICO-SCORE-FLGS              PIC  X(1).
262                     88  FLG-FICO-SCORE-ISVALID       VALUE LOW-VALUES.
263                     88  FLG-FICO-SCORE-NOT-OK        VALUE '0'.
264                     88  FLG-FICO-SCORE-BLANK         VALUE 'B'.
265 D          10 WS-EDIT-OPEN-DATE-FLGS.
266                     88 WS-EDIT-OPEN-DATE-IS-INVALID  VALUE '000'.
267 D             20 WS-EDIT-OPEN-YEAR-FLG            PIC X(01).
268                     88 FLG-OPEN-YEAR-ISVALID        VALUE LOW-VALUES.
269                     88 FLG-OPEN-YEAR-NOT-OK         VALUE '0'.
270                     88 FLG-OPEN-YEAR-BLANK          VALUE 'B'.
271 D             20 WS-EDIT-OPEN-MONTH               PIC X(01).
272                     88 FLG-OPEN-MONTH-ISVALID       VALUE LOW-VALUES.
273                     88 FLG-OPEN-MONTH-NOT-OK        VALUE '0'.
274                     88 FLG-OPEN-MONTH-BLANK         VALUE 'B'.
275 D             20 WS-EDIT-OPEN-DAY                 PIC X(01).
276                     88 FLG-OPEN-DAY-ISVALID         VALUE LOW-VALUES.
277                     88 FLG-OPEN-DAY-NOT-OK          VALUE '0'.
278                     88 FLG-OPEN-DAY-BLANK           VALUE 'B'.
279 D          10 WS-EXPIRY-DATE-FLGS.
280                     88 WS-EDIT-EXPIRY-IS-INVALID    VALUE '000'.
281 D             20 WS-EDIT-EXPIRY-YEAR-FLG          PIC X(01).
282                     88 FLG-EXPIRY-YEAR-ISVALID      VALUE LOW-VALUES.
283                     88 FLG-EXPIRY-YEAR-NOT-OK       VALUE '0'.
284                     88 FLG-EXPIRY-YEAR-BLANK        VALUE 'B'.
285 D             20 WS-EDIT-EXPIRY-MONTH             PIC X(01).
286                     88 FLG-EXPIRY-MONTH-ISVALID     VALUE LOW-VALUES.
287                     88 FLG-EXPIRY-MONTH-NOT-OK      VALUE '0'.
288                     88 FLG-EXPIRY-MONTH-BLANK       VALUE 'B'.
289 D             20 WS-EDIT-EXPIRY-DAY               PIC X(01).
290                     88 FLG-EXPIRY-DAY-ISVALID       VALUE LOW-VALUES.
291                     88 FLG-EXPIRY-DAY-NOT-OK        VALUE '0'.
292                     88 FLG-EXPIRY-DAY-BLANK         VALUE 'B'.
293 D          10 WS-EDIT-REISSUE-DATE-FLGS.
294                     88 WS-EDIT-REISSUE-DATE-INVALID   VALUE '000'.
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295 D                20 WS-EDIT-REISSUE-YEAR-FLG          PIC X(01).
296                     88 FLG-REISSUE-YEAR-ISVALID       VALUE LOW-VALUES.
297                     88 FLG-REISSUE-YEAR-NOT-OK         VALUE '0'.
298                     88 FLG-REISSUE-YEAR-BLANK          VALUE 'B'.
299 D                20 WS-EDIT-REISSUE-MONTH             PIC X(01).
300                     88 FLG-REISSUE-MONTH-ISVALID      VALUE LOW-VALUES.
301                     88 FLG-REISSUE-MONTH-NOT-OK        VALUE '0'.
302                     88 FLG-REISSUE-MONTH-BLANK         VALUE 'B'.
303 D                20 WS-EDIT-REISSUE-DAY               PIC X(01).
304                     88 FLG-REISSUE-DAY-ISVALID        VALUE LOW-VALUES.
305                     88 FLG-REISSUE-DAY-NOT-OK          VALUE '0'.
306                     88 FLG-REISSUE-DAY-BLANK           VALUE 'B'.
307 D          10 WS-EDIT-NAME-FLAGS.
308 D                20 WS-EDIT-FIRST-NAME-FLGS           PIC X(01).
309                     88 FLG-FIRST-NAME-ISVALID         VALUE LOW-VALUES.
310                     88 FLG-FIRST-NAME-NOT-OK           VALUE '0'.
311                     88 FLG-FIRST-NAME-BLANK            VALUE 'B'.
312 D                20 WS-EDIT-MIDDLE-NAME-FLGS          PIC X(01).
313                     88 FLG-MIDDLE-NAME-ISVALID        VALUE LOW-VALUES.
314                     88 FLG-MIDDLE-NAME-NOT-OK          VALUE '0'.
315                     88 FLG-MIDDLE-NAME-BLANK           VALUE 'B'.
316 D                20 WS-EDIT-LAST-NAME-FLGS            PIC X(01).
317                     88 FLG-LAST-NAME-ISVALID          VALUE LOW-VALUES.
318                     88 FLG-LAST-NAME-NOT-OK            VALUE '0'.
319                     88 FLG-LAST-NAME-BLANK             VALUE 'B'.
320 D          10 WS-EDIT-ADDRESS-FLAGS.
321 D                20 WS-EDIT-ADDRESS-LINE-1-FLGS       PIC X(01).
322                     88 FLG-ADDRESS-LINE-1-ISVALID     VALUE LOW-VALUES.
323                     88 FLG-ADDRESS-LINE-1-NOT-OK       VALUE '0'.
324                     88 FLG-ADDRESS-LINE-1-BLANK        VALUE 'B'.
325 D                20 WS-EDIT-ADDRESS-LINE-2-FLGS       PIC X(01).
326                     88 FLG-ADDRESS-LINE-2-ISVALID     VALUE LOW-VALUES.
327                     88 FLG-ADDRESS-LINE-2-NOT-OK       VALUE '0'.
328                     88 FLG-ADDRESS-LINE-2-BLANK        VALUE 'B'.
329 D                20 WS-EDIT-CITY-FLGS                 PIC X(01).
330                     88 FLG-CITY-ISVALID               VALUE LOW-VALUES.
331                     88 FLG-CITY-NOT-OK                 VALUE '0'.
332                     88 FLG-CITY-BLANK                  VALUE 'B'.
333 D                20 WS-EDIT-STATE-FLGS                PIC X(01).
334                     88 FLG-STATE-ISVALID              VALUE LOW-VALUES.
335                     88 FLG-STATE-NOT-OK                VALUE '0'.
336                     88 FLG-STATE-BLANK                 VALUE 'B'.
337 D                20 WS-EDIT-ZIPCODE-FLGS              PIC X(01).
338                     88 FLG-ZIPCODE-ISVALID            VALUE LOW-VALUES.
339                     88 FLG-ZIPCODE-NOT-OK              VALUE '0'.
340                     88 FLG-ZIPCODE-BLANK               VALUE 'B'.
341 D                20 WS-EDIT-COUNTRY-FLGS              PIC X(01).
342                     88 FLG-COUNTRY-ISVALID            VALUE LOW-VALUES.
343                     88 FLG-COUNTRY-NOT-OK              VALUE '0'.
344                     88 FLG-COUNTRY-BLANK               VALUE 'B'.
345                  20 WS-EDIT-PHONE-NUM-1-FLGS.
346                     88 WS-EDIT-PHONE-NUM-1-IS-INVALID
347                                                       VALUE '000'.
348 D                   30 WS-EDIT-PHONE-NUM-1A-FLG       PIC X(01).
349                        88 FLG-PHONE-NUM-1A-ISVALID    VALUE LOW-VALUES.
350                        88 FLG-PHONE-NUM-1A-NOT-OK      VALUE '0'.
351                        88 FLG-PHONE-NUM-1A-BLANK       VALUE 'B'.
352 D                   30 WS-EDIT-PHONE-NUM-1B           PIC X(01).
353                        88 FLG-PHONE-NUM-1B-ISVALID    VALUE LOW-VALUES.
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354                     88 FLG-PHONE-NUM-1B-NOT-OK     VALUE '0'.
355                     88 FLG-PHONE-NUM-1B-BLANK      VALUE 'B'.
356 D             30 WS-EDIT-PHONE-NUM-1C              PIC X(01).
357                     88 FLG-PHONE-NUM-1C-ISVALID    VALUE LOW-VALUES.
358                     88 FLG-PHONE-NUM-1C-NOT-OK     VALUE '0'.
359                     88 FLG-PHONE-NUM-1C-BLANK      VALUE 'B'.
360           20 WS-EDIT-PHONE-NUM-2-FLGS.
361               88 WS-EDIT-PHONE-NUM-2-IS-INVALID
362                                                    VALUE '000'.
363 D             30 WS-EDIT-PHONE-NUM-2A-FLG          PIC X(01).
364                     88 FLG-PHONE-NUM-2A-ISVALID    VALUE LOW-VALUES.
365                     88 FLG-PHONE-NUM-2A-NOT-OK     VALUE '0'.
366                     88 FLG-PHONE-NUM-2A-BLANK      VALUE 'B'.
367 D             30 WS-EDIT-PHONE-NUM-2B              PIC X(01).
368                     88 FLG-PHONE-NUM-2B-ISVALID    VALUE LOW-VALUES.
369                     88 FLG-PHONE-NUM-2B-NOT-OK     VALUE '0'.
370                     88 FLG-PHONE-NUM-2B-BLANK      VALUE 'B'.
371 D             30 WS-EDIT-PHONE-NUM-2C              PIC X(01).
372                     88 FLG-PHONE-NUM-2C-ISVALID    VALUE LOW-VALUES.
373                     88 FLG-PHONE-NUM-2C-NOT-OK     VALUE '0'.
374                     88 FLG-PHONE-NUM-2C-BLANK      VALUE 'B'.
375 D         10  WS-EFT-ACCOUNT-ID-FLGS              PIC X(01).
376               88 FLG-EFT-ACCOUNT-ID-ISVALID       VALUE LOW-VALUES.
377               88 FLG-EFT-ACCOUNT-ID-NOT-OK        VALUE '0'.
378               88 FLG-EFT-ACCOUNT-ID-BLANK         VALUE 'B'.
379 D         10  WS-EDIT-PRI-CARDHOLDER              PIC  X(1).
380               88  FLG-PRI-CARDHOLDER-ISVALID      VALUES 'Y', 'N'.
381               88  FLG-PRI-CARDHOLDER-NOT-OK       VALUE '0'.
382               88  FLG-PRI-CARDHOLDER-BLANK        VALUE 'B'.
383       05 CICS-OUTPUT-EDIT-VARS.
384 D         10  CUST-ACCT-ID-X                      PIC X(11).
385 D         10  CUST-ACCT-ID-N REDEFINES CUST-ACCT-ID-X
386 D                                                 PIC 9(11).
387 D         10  WS-EDIT-DATE-X                      PIC X(10).
388           10  FILLER REDEFINES WS-EDIT-DATE-X.
389 D             20 WS-EDIT-DATE-X-YEAR              PIC X(4).
390               20 FILLER                           PIC X(1).
391 D             20 WS-EDIT-DATE-MONTH               PIC X(2).
392               20 FILLER                           PIC X(1).
393 D             20 WS-EDIT-DATE-DAY                 PIC X(2).
394 D         10  WS-EDIT-DATE-X REDEFINES
395 D             WS-EDIT-DATE-X                      PIC 9(10).
396 D         10  WS-EDIT-CURRENCY-9-2                PIC X(15).
397 D         10  WS-EDIT-CURRENCY-9-2-F             PIC +ZZZ,ZZZ,ZZZ.99.
398       05 WS-XREF-RID.
399 D         10  WS-CARD-RID-CARDNUM                 PIC X(16).
400 D         10  WS-CARD-RID-CUST-ID                 PIC 9(09).
401 D         10  WS-CARD-RID-CUST-ID-X REDEFINES
402 D             WS-CARD-RID-CUST-ID                 PIC X(09).
403 D         10  WS-CARD-RID-ACCT-ID                 PIC 9(11).
404 D         10  WS-CARD-RID-ACCT-ID-X REDEFINES
405 D             WS-CARD-RID-ACCT-ID                 PIC X(11).
406       05  WS-FILE-READ-FLAGS.
407 D       10 WS-ACCOUNT-MASTER-READ-FLAG            PIC X(1).
408            88 FOUND-ACCT-IN-MASTER                VALUE '1'.
409 D       10 WS-CUST-MASTER-READ-FLAG               PIC X(1).
410            88 FOUND-CUST-IN-MASTER                VALUE '1'.
411       05  WS-FILE-ERROR-MESSAGE.
412           10  FILLER                           PIC X(12)
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413                                                    VALUE 'FILE ERROR: '.
414 D          10   ERROR-OPNAME                        PIC X(8)
415 D                                                   VALUE SPACES.
416            10   FILLER                              PIC X(4)
417                                                     VALUE ' ON '.
418 D          10   ERROR-FILE                          PIC X(9)
419 D                                                   VALUE SPACES.
420            10   FILLER                              PIC X(15)
421                                                     VALUE
422                                                     ' RETURNED RESP '.
423 D          10   ERROR-RESP                          PIC X(10)
424 D                                                   VALUE SPACES.
425            10   FILLER                              PIC X(7)
426                                                     VALUE ',RESP2 '.
427 D          10   ERROR-RESP2                         PIC X(10)
428 D                                                   VALUE SPACES.
429            10   FILLER                              PIC X(5)
430                                                     VALUE SPACES.
431          05 ALPHA-VARS-FOR-DATA-EDITING.
432 D          15 ACUP-NEW-CREDIT-LIMIT-X               PIC X(15).
433 D          15 ACUP-NEW-CASH-CREDIT-LIMIT-X          PIC X(15).
434 D          15 ACUP-NEW-CURR-BAL-X                   PIC X(15).
435 D          15 ACUP-NEW-CURR-CYC-CREDIT-X            PIC X(15).
436 D          15 ACUP-NEW-CURR-CYC-DEBIT-X             PIC X(15).
437          05 ACCT-UPDATE-RECORD.
438 D          15   ACCT-UPDATE-ID                      PIC 9(11).
439 D          15   ACCT-UPDATE-ACTIVE-STATUS           PIC X(01).
440 D          15   ACCT-UPDATE-CURR-BAL                PIC S9(10)V99.
441 D          15   ACCT-UPDATE-CREDIT-LIMIT            PIC S9(10)V99.
442 D          15   ACCT-UPDATE-CASH-CREDIT-LIMIT       PIC S9(10)V99.
443 D          15   ACCT-UPDATE-OPEN-DATE               PIC X(10).
444 D          15   ACCT-UPDATE-EXPIRAION-DATE          PIC X(10).
445 D          15   ACCT-UPDATE-REISSUE-DATE            PIC X(10).
446 D          15   ACCT-UPDATE-CURR-CYC-CREDIT         PIC S9(10)V99.
447 D          15   ACCT-UPDATE-CURR-CYC-DEBIT          PIC S9(10)V99.
448 D          15   ACCT-UPDATE-GROUP-ID                PIC X(10).
449            15   FILLER                              PIC X(188).
450          05 CUST-UPDATE-RECORD.
451 D          15   CUST-UPDATE-ID                      PIC 9(09).
452 D          15   CUST-UPDATE-FIRST-NAME              PIC X(25).
453 D          15   CUST-UPDATE-MIDDLE-NAME             PIC X(25).
454 D          15   CUST-UPDATE-LAST-NAME               PIC X(25).
455 D          15   CUST-UPDATE-ADDR-LINE-1             PIC X(50).
456 D          15   CUST-UPDATE-ADDR-LINE-2             PIC X(50).
457 D          15   CUST-UPDATE-ADDR-LINE-3             PIC X(50).
458 D          15   CUST-UPDATE-ADDR-STATE-CD           PIC X(02).
459 D          15   CUST-UPDATE-ADDR-COUNTRY-CD         PIC X(03).
460 D          15   CUST-UPDATE-ADDR-ZIP                PIC X(10).
461 D          15   CUST-UPDATE-PHONE-NUM-1             PIC X(15).
462 D          15   CUST-UPDATE-PHONE-NUM-2             PIC X(15).
463 D          15   CUST-UPDATE-SSN                     PIC 9(09).
464 D          15   CUST-UPDATE-GOVT-ISSUED-ID          PIC X(20).
465 D          15   CUST-UPDATE-DOB-YYYY-MM-DD          PIC X(10).
466 D          15   CUST-UPDATE-EFT-ACCOUNT-ID          PIC X(10).
467 D          15   CUST-UPDATE-PRI-CARD-IND            PIC X(01).
468 D          15   CUST-UPDATE-FICO-CREDIT-SCORE       PIC 9(03).
469            15   FILLER                              PIC X(168).
470 D        05  WS-LONG-MSG                            PIC X(500).
471 D        05  WS-INFO-MSG                            PIC X(40).
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472              88  WS-NO-INFO-MESSAGE                    VALUES
473                                                        SPACES LOW-VALUES.
474              88  FOUND-ACCOUNT-DATA            VALUE
475                  'DETAILS OF SELECTED ACCOUNT SHOWN ABOVE'.
476              88  PROMPT-FOR-SEARCH-KEYS            VALUE
477                  'ENTER OR UPDATE ID OF ACCOUNT TO UPDATE'.
478              88  PROMPT-FOR-CHANGES               VALUE
479                  'UPDATE ACCOUNT DETAILS PRESENTED ABOVE.'.
480              88  PROMPT-FOR-CONFIRMATION          VALUE
481                  'CHANGES VALIDATED.PRESS F5 TO SAVE'.
482              88  CONFIRM-UPDATE-SUCCESS           VALUE
483                  'CHANGES COMMITTED TO DATABASE'.
484              88  INFORM-FAILURE                   VALUE
485                  'CHANGES UNSUCCESSFUL. PLEASE TRY AGAIN'.
486 D       05  WS-RETURN-MSG                          PIC X(75).
487              88  WS-RETURN-MSG-OFF                 VALUE SPACES.
488              88  WS-EXIT-MESSAGE                   VALUE
489                  'PF03 PRESSED.EXITING                '.
490              88  WS-PROMPT-FOR-ACCT               VALUE
491                  'ACCOUNT NUMBER NOT PROVIDED'.
492              88  WS-PROMPT-FOR-LASTNAME           VALUE
493                  'LAST NAME NOT PROVIDED'.
494              88  WS-NAME-MUST-BE-ALPHA            VALUE
495                  'NAME CAN ONLY CONTAIN ALPHABETS AND SPACES'.
496              88  NO-SEARCH-CRITERIA-RECEIVED      VALUE
497                  'NO INPUT RECEIVED'.
498              88  NO-CHANGES-DETECTED              VALUE
499                  'NO CHANGE DETECTED WITH RESPECT TO VALUES FETCHED.'.
500              88  SEARCHED-ACCT-ZEROES            VALUE
501                  'ACCOUNT NUMBER MUST BE A NON ZERO 11 DIGIT NUMBER'.
502              88  SEARCHED-ACCT-NOT-NUMERIC        VALUE
503                  'ACCOUNT NUMBER MUST BE A NON ZERO 11 DIGIT NUMBER'.
504              88  DID-NOT-FIND-ACCT-IN-CARDXREF    VALUE
505                  'DID NOT FIND THIS ACCOUNT IN ACCOUNT CARD XREF FILE'.
506              88  DID-NOT-FIND-ACCT-IN-ACCTDAT     VALUE
507                  'DID NOT FIND THIS ACCOUNT IN ACCOUNT MASTER FILE'.
508              88  DID-NOT-FIND-CUST-IN-CUSTDAT     VALUE
509                  'DID NOT FIND ASSOCIATED CUSTOMER IN MASTER FILE'.
510              88  ACCT-STATUS-MUST-BE-YES-NO       VALUE
511                  'ACCOUNT ACTIVE STATUS MUST BE Y OR N'.
512              88  CRED-LIMIT-IS-BLANK              VALUE
513                  'CREDIT LIMIT MUST BE SUPPLIED'.
514              88  CRED-LIMIT-IS-NOT-VALID          VALUE
515                  'CREDIT LIMIT IS NOT VALID'.
516              88  THIS-MONTH-NOT-VALID             VALUE
517                  'CARD EXPIRY MONTH MUST BE BETWEEN 1 AND 12'.
518              88  THIS-YEAR-NOT-VALID              VALUE
519                  'INVALID CARD EXPIRY YEAR'.
520              88  DID-NOT-FIND-ACCT-IN-CARDXREF    VALUE
521                  'DID NOT FIND THIS ACCOUNT IN CARDS DATABASE'.
522              88  DID-NOT-FIND-ACCTCARD-COMBO      VALUE
523                  'DID NOT FIND CARDS FOR THIS SEARCH CONDITION'.
524              88  COULD-NOT-LOCK-ACCT-FOR-UPDATE   VALUE
525                  'COULD NOT LOCK ACCOUNT RECORD FOR UPDATE'.
526              88  COULD-NOT-LOCK-CUST-FOR-UPDATE   VALUE
527                  'COULD NOT LOCK CUSTOMER RECORD FOR UPDATE'.
528              88  DATA-WAS-CHANGED-BEFORE-UPDATE     VALUE
529                  'RECORD CHANGED BY SOME ONE ELSE. PLEASE REVIEW'.
530              88  LOCKED-BUT-UPDATE-FAILED          VALUE
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531                         'UPDATE OF RECORD FAILED'.
532                  88  XREF-READ-ERROR                    VALUE
533                         'ERROR READING CARD DATA FILE'.
534                  88  CODING-TO-BE-DONE                  VALUE
535                         'LOOKS GOOD.... SO FAR'.
536              01 WS-LITERALS.
537 D               05 LIT-THISPGM                          PIC X(8)
538 D                                                       VALUE 'COACTUPC'.
539 D               05 LIT-THISTRANID                       PIC X(4)
540 D                                                       VALUE 'CAUP'.
541 D               05 LIT-THISMAPSET                       PIC X(8)
542 D                                                       VALUE 'COACTUP '.
543 D               05 LIT-THISMAP                          PIC X(7)
544 D                                                       VALUE 'CACTUPA'.
545 D               05 LIT-CARDUPDATE-PGM                   PIC X(8)
546 D                                                       VALUE 'COCRDUPC'.
547 D               05 LIT-CARDUPDATE-TRANID                PIC X(4)
548 D                                                       VALUE 'CCUP'.
549 D               05 LIT-CARDUPDATE-MAPSET                PIC X(8)
550 D                                                       VALUE 'COCRDUP '.
551 D               05 LIT-CARDUPDATE-MAP                   PIC X(7)
552 D                                                       VALUE 'CCRDUPA'.
553 D               05 LIT-CCLISTPGM                        PIC X(8)
554 D                                                       VALUE 'COCRDLIC'.
555 D               05 LIT-CCLISTTRANID                     PIC X(4)
556 D                                                       VALUE 'CCLI'.
557 D               05 LIT-CCLISTMAPSET                     PIC X(7)
558 D                                                       VALUE 'COCRDLI'.
559 D               05 LIT-CCLISTMAP                        PIC X(7)
560 D                                                       VALUE 'CCRDSLA'.
561 D               05 LIT-MENUPGM                          PIC X(8)
562 D                                                       VALUE 'COMEN01C'.
563 D               05 LIT-MENUTRANID                       PIC X(4)
564 D                                                       VALUE 'CM00'.
565 D               05 LIT-MENUMAPSET                       PIC X(7)
566 D                                                       VALUE 'COMEN01'.
567 D               05 LIT-MENUMAP                          PIC X(7)
568 D                                                       VALUE 'COMEN1A'.
569 D               05 LIT-CARDDTLPGM                       PIC X(8)
570 D                                                       VALUE 'COCRDSLC'.
571 D               05 LIT-CARDDTLTRANID                    PIC X(4)
572 D                                                       VALUE 'CCDL'.
573 D               05 LIT-CARDDTLMAPSET                    PIC X(7)
574 D                                                       VALUE 'COCRDSL'.
575 D               05 LIT-CARDDTLMAP                       PIC X(7)
576 D                                                       VALUE 'CCRDSLA'.
577 D               05 LIT-ACCTFILENAME                     PIC X(8)
578 D                                                       VALUE 'ACCTDAT '.
579 D               05 LIT-CUSTFILENAME                     PIC X(8)
580 D                                                       VALUE 'CUSTDAT '.
581 D               05 LIT-CARDFILENAME                     PIC X(8)
582 D                                                       VALUE 'CARDDAT '.
583 D               05 LIT-CARDFILENAME-ACCT-PATH           PIC X(8)
584 D                                                       VALUE 'CARDAIX '.
585 D               05 LIT-CARDXREFNAME-ACCT-PATH           PIC X(8)
586 D                                                       VALUE 'CXACAIX '.
587                 05 LIT-ALL-ALPHANUM-FROM-X.
588 D                   10 LIT-ALL-ALPHA-FROM-X.
589 D                       15 LIT-UPPER                    PIC X(26)
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590 D                                          VALUE 'ABCDEFGHIJKLMNOPQRSTUVWXYZ'.
591 D                   15 LIT-LOWER                          PIC X(26)
592 D                                          VALUE 'ABCDEFGHIJKLMNOPQRSTUVWXYZ'.
593 D               10 LIT-NUMBERS                            PIC X(10)
594 D                                          VALUE '0123456789'.
595         01   CC-WORK-AREAS.
596           05 CC-WORK-AREA.
597 D           10 CCARD-AID                                  PIC X(5).
598 D               88  CCARD-AID-ENTER                       VALUE 'ENTER'.
599                 88  CCARD-AID-CLEAR                       VALUE 'CLEAR'.
600                 88  CCARD-AID-PA1                         VALUE 'PA1  '.
601                 88  CCARD-AID-PA2                         VALUE 'PA2  '.
602                 88  CCARD-AID-PFK01                       VALUE 'PFK01'.
603                 88  CCARD-AID-PFK02                       VALUE 'PFK02'.
604 D               88  CCARD-AID-PFK03                       VALUE 'PFK03'.
605                 88  CCARD-AID-PFK04                       VALUE 'PFK04'.
606 D               88  CCARD-AID-PFK05                       VALUE 'PFK05'.
607                 88  CCARD-AID-PFK06                       VALUE 'PFK06'.
608                 88  CCARD-AID-PFK07                       VALUE 'PFK07'.
609                 88  CCARD-AID-PFK08                       VALUE 'PFK08'.
610                 88  CCARD-AID-PFK09                       VALUE 'PFK09'.
611                 88  CCARD-AID-PFK10                       VALUE 'PFK10'.
612                 88  CCARD-AID-PFK11                       VALUE 'PFK11'.
613 D               88  CCARD-AID-PFK12                       VALUE 'PFK12'.
614 D           10  CCARD-NEXT-PROG                           PIC X(8).
615 D           10  CCARD-NEXT-MAPSET                         PIC X(7).
616 D           10  CCARD-NEXT-MAP                            PIC X(7).
617 D           10  CCARD-ERROR-MSG                           PIC X(75).
618 D           10  CCARD-RETURN-MSG                          PIC X(75).
619                 88  CCARD-RETURN-MSG-OFF             VALUE LOW-VALUES.
620 D           10 CC-ACCT-ID                                 PIC X(11)
621 D                                               VALUE SPACES.
622 D           10 CC-ACCT-ID-N REDEFINES CC-ACCT-ID PIC 9(11).
623 D           10 CC-CARD-NUM                                PIC X(16)
624 D                                               VALUE SPACES.
625 D           10 CC-CARD-NUM-N REDEFINES CC-CARD-NUM PIC 9(16).
626 D           10 CC-CUST-ID                                 PIC X(09)
627 D                                               VALUE SPACES.
628 D           10 CC-CUST-ID-N REDEFINES CC-CUST-ID PIC 9(9).
629 D       01 WS-US-PHONE-AREA-CODE-TO-EDIT PIC XXX.
630           88 VALID-PHONE-AREA-CODE VALUES '201',
631                                     '202',
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1877                                              'TX75',
1878                                              'TX76',
1879                                              'TX77',
1880                                              'TX78',
1881                                              'TX79',
1882                                              'TX88',
1883                                              'UT84',
1884                                              'VA20',
1885                                              'VA22',
1886                                              'VA23',
1887                                              'VA24',
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1888                                      'VI80',
1889                                      'VI82',
1890                                      'VI83',
1891                                      'VI84',
1892                                      'VI85',
1893                                      'VT50',
1894                                      'VT51',
1895                                      'VT52',
1896                                      'VT53',
1897                                      'VT54',
1898                                      'VT56',
1899                                      'VT57',
1900                                      'VT58',
1901                                      'VT59',
1902                                      'WA98',
1903                                      'WA99',
1904                                      'WI53',
1905                                      'WI54',
1906                                      'WV24',
1907                                      'WV25',
1908                                      'WV26',
1909                                      'WY82',
1910                                      'WY83'.
1911 D        02 LAST-3-OF-ZIP           PIC X(3).
1912 D     01  LIT-ALL-ALPHA-FROM     PIC X(52) VALUE SPACES.
1913 D     01  LIT-ALL-ALPHANUM-FROM  PIC X(62) VALUE SPACES.
1914 D     01  LIT-ALL-NUM-FROM       PIC X(10) VALUE SPACES.
1915 D     77  LIT-ALPHA-SPACES-TO    PIC X(52) VALUE SPACES.
1916       77  LIT-ALPHANUM-SPACES-TO PIC X(62) VALUE SPACES.
1917 D     77  LIT-NUM-SPACES-TO      PIC X(10) VALUE SPACES.
1918       01 CCDA-SCREEN-TITLE.
1919 D       05 CCDA-TITLE01   PIC X(40) VALUE
1920 D          '     AWS MAINFRAME MODERNIZATION      '.
1921 D       05 CCDA-TITLE02   PIC X(40) VALUE
1922 D          '              CARDDEMO                '.
1923 D       05 CCDA-THANK-YOU  PIC X(40) VALUE
1924 D          'THANK YOU FOR USING CCDA APPLICATION... '.
1925       01  CACTUPAI.
1926           02  FILLER PIC X(12).
1927 D         02  TRNNAMEL   COMP  PIC  S9(4).
1928 D         02  TRNNAMEF   PICTURE X.
1929           02  FILLER REDEFINES TRNNAMEF.
1930 D           03 TRNNAMEA   PICTURE X.
1931           02  FILLER  PICTURE X(4).
1932 D         02  TRNNAMEI  PIC X(4).
1933 D         02  TITLE01L   COMP  PIC  S9(4).
1934 D         02  TITLE01F   PICTURE X.
1935           02  FILLER REDEFINES TITLE01F.
1936 D           03 TITLE01A   PICTURE X.
1937           02  FILLER  PICTURE X(4).
1938 D         02  TITLE01I  PIC X(40).
1939 D         02  CURDATEL   COMP  PIC  S9(4).
1940 D         02  CURDATEF   PICTURE X.
1941           02  FILLER REDEFINES CURDATEF.
1942 D           03 CURDATEA   PICTURE X.
1943           02  FILLER  PICTURE X(4).
1944 D         02  CURDATEI  PIC X(8).
1945 D         02  PGMNAMEL   COMP  PIC  S9(4).
1946 D         02  PGMNAMEF   PICTURE X.
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1947                  02  FILLER REDEFINES PGMNAMEF.
1948 D                   03 PGMNAMEA    PICTURE X.
1949                  02  FILLER   PICTURE X(4).
1950 D               02  PGMNAMEI  PIC X(8).
1951 D               02  TITLE02L    COMP  PIC  S9(4).
1952 D               02  TITLE02F    PICTURE X.
1953                  02  FILLER REDEFINES TITLE02F.
1954 D                   03 TITLE02A    PICTURE X.
1955                  02  FILLER   PICTURE X(4).
1956 D               02  TITLE02I  PIC X(40).
1957 D               02  CURTIMEL    COMP  PIC  S9(4).
1958 D               02  CURTIMEF    PICTURE X.
1959                  02  FILLER REDEFINES CURTIMEF.
1960 D                   03 CURTIMEA    PICTURE X.
1961                  02  FILLER   PICTURE X(4).
1962 D               02  CURTIMEI  PIC X(8).
1963 D               02  ACCTSIDL    COMP  PIC  S9(4).
1964 D               02  ACCTSIDF    PICTURE X.
1965                  02  FILLER REDEFINES ACCTSIDF.
1966 D                   03 ACCTSIDA    PICTURE X.
1967                  02  FILLER   PICTURE X(4).
1968 D               02  ACCTSIDI  PIC X(11).
1969 D               02  ACSTTUSL    COMP  PIC  S9(4).
1970 D               02  ACSTTUSF    PICTURE X.
1971                  02  FILLER REDEFINES ACSTTUSF.
1972 D                   03 ACSTTUSA    PICTURE X.
1973                  02  FILLER   PICTURE X(4).
1974 D               02  ACSTTUSI  PIC X(1).
1975 D               02  OPNYEARL    COMP  PIC  S9(4).
1976 D               02  OPNYEARF    PICTURE X.
1977                  02  FILLER REDEFINES OPNYEARF.
1978 D                   03 OPNYEARA    PICTURE X.
1979                  02  FILLER   PICTURE X(4).
1980 D               02  OPNYEARI  PIC X(4).
1981 D               02  OPNMONL     COMP  PIC  S9(4).
1982 D               02  OPNMONF     PICTURE X.
1983                  02  FILLER REDEFINES OPNMONF.
1984 D                   03 OPNMONA     PICTURE X.
1985                  02  FILLER   PICTURE X(4).
1986 D               02  OPNMONI  PIC X(2).
1987 D               02  OPNDAYL     COMP  PIC  S9(4).
1988 D               02  OPNDAYF     PICTURE X.
1989                  02  FILLER REDEFINES OPNDAYF.
1990 D                   03 OPNDAYA     PICTURE X.
1991                  02  FILLER   PICTURE X(4).
1992 D               02  OPNDAYI  PIC X(2).
1993 D               02  ACRDLIML    COMP  PIC  S9(4).
1994 D               02  ACRDLIMF    PICTURE X.
1995                  02  FILLER REDEFINES ACRDLIMF.
1996 D                   03 ACRDLIMA    PICTURE X.
1997                  02  FILLER   PICTURE X(4).
1998 D               02  ACRDLIMI  PIC X(15).
1999 D               02  EXPYEARL    COMP  PIC  S9(4).
2000 D               02  EXPYEARF    PICTURE X.
2001                  02  FILLER REDEFINES EXPYEARF.
2002 D                   03 EXPYEARA    PICTURE X.
2003                  02  FILLER   PICTURE X(4).
2004 D               02  EXPYEARI  PIC X(4).
2005 D               02  EXPMONL     COMP  PIC  S9(4).
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2006 D          02  EXPMONF    PICTURE X.
2007            02  FILLER REDEFINES EXPMONF.
2008 D            03 EXPMONA    PICTURE X.
2009            02  FILLER   PICTURE X(4).
2010 D          02  EXPMONI  PIC X(2).
2011 D          02  EXPDAYL    COMP  PIC  S9(4).
2012 D          02  EXPDAYF    PICTURE X.
2013            02  FILLER REDEFINES EXPDAYF.
2014 D            03 EXPDAYA    PICTURE X.
2015            02  FILLER   PICTURE X(4).
2016 D          02  EXPDAYI  PIC X(2).
2017 D          02  ACSHLIML   COMP  PIC  S9(4).
2018 D          02  ACSHLIMF   PICTURE X.
2019            02  FILLER REDEFINES ACSHLIMF.
2020 D            03 ACSHLIMA   PICTURE X.
2021            02  FILLER   PICTURE X(4).
2022 D          02  ACSHLIMI  PIC X(15).
2023 D          02  RISYEARL   COMP  PIC  S9(4).
2024 D          02  RISYEARF   PICTURE X.
2025            02  FILLER REDEFINES RISYEARF.
2026 D            03 RISYEARA   PICTURE X.
2027            02  FILLER   PICTURE X(4).
2028 D          02  RISYEARI  PIC X(4).
2029 D          02  RISMONL    COMP  PIC  S9(4).
2030 D          02  RISMONF    PICTURE X.
2031            02  FILLER REDEFINES RISMONF.
2032 D            03 RISMONA    PICTURE X.
2033            02  FILLER   PICTURE X(4).
2034 D          02  RISMONI  PIC X(2).
2035 D          02  RISDAYL    COMP  PIC  S9(4).
2036 D          02  RISDAYF    PICTURE X.
2037            02  FILLER REDEFINES RISDAYF.
2038 D            03 RISDAYA    PICTURE X.
2039            02  FILLER   PICTURE X(4).
2040 D          02  RISDAYI  PIC X(2).
2041 D          02  ACURBALL   COMP  PIC  S9(4).
2042 D          02  ACURBALF   PICTURE X.
2043            02  FILLER REDEFINES ACURBALF.
2044 D            03 ACURBALA   PICTURE X.
2045            02  FILLER   PICTURE X(4).
2046 D          02  ACURBALI  PIC X(15).
2047 D          02  ACRCYCRL   COMP  PIC  S9(4).
2048 D          02  ACRCYCRF   PICTURE X.
2049            02  FILLER REDEFINES ACRCYCRF.
2050 D            03 ACRCYCRA   PICTURE X.
2051            02  FILLER   PICTURE X(4).
2052 D          02  ACRCYCRI  PIC X(15).
2053 D          02  AADDGRPL   COMP  PIC  S9(4).
2054 D          02  AADDGRPF   PICTURE X.
2055            02  FILLER REDEFINES AADDGRPF.
2056 D            03 AADDGRPA   PICTURE X.
2057            02  FILLER   PICTURE X(4).
2058 D          02  AADDGRPI  PIC X(10).
2059 D          02  ACRCYDBL   COMP  PIC  S9(4).
2060 D          02  ACRCYDBF   PICTURE X.
2061            02  FILLER REDEFINES ACRCYDBF.
2062 D            03 ACRCYDBA   PICTURE X.
2063            02  FILLER   PICTURE X(4).
2064 D          02  ACRCYDBI  PIC X(15).
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2065 D              02  ACSTNUML    COMP  PIC  S9(4).
2066 D              02  ACSTNUMF    PICTURE X.
2067                02  FILLER REDEFINES ACSTNUMF.
2068 D                03 ACSTNUMA    PICTURE X.
2069                02  FILLER  PICTURE X(4).
2070 D              02  ACSTNUMI  PIC X(9).
2071 D              02  ACTSSN1L    COMP  PIC  S9(4).
2072 D              02  ACTSSN1F    PICTURE X.
2073                02  FILLER REDEFINES ACTSSN1F.
2074 D                03 ACTSSN1A    PICTURE X.
2075                02  FILLER  PICTURE X(4).
2076 D              02  ACTSSN1I  PIC X(3).
2077 D              02  ACTSSN2L    COMP  PIC  S9(4).
2078 D              02  ACTSSN2F    PICTURE X.
2079                02  FILLER REDEFINES ACTSSN2F.
2080 D                03 ACTSSN2A    PICTURE X.
2081                02  FILLER  PICTURE X(4).
2082 D              02  ACTSSN2I  PIC X(2).
2083 D              02  ACTSSN3L    COMP  PIC  S9(4).
2084 D              02  ACTSSN3F    PICTURE X.
2085                02  FILLER REDEFINES ACTSSN3F.
2086 D                03 ACTSSN3A    PICTURE X.
2087                02  FILLER  PICTURE X(4).
2088 D              02  ACTSSN3I  PIC X(4).
2089 D              02  DOBYEARL    COMP  PIC  S9(4).
2090 D              02  DOBYEARF    PICTURE X.
2091                02  FILLER REDEFINES DOBYEARF.
2092 D                03 DOBYEARA    PICTURE X.
2093                02  FILLER  PICTURE X(4).
2094 D              02  DOBYEARI  PIC X(4).
2095 D              02  DOBMONL     COMP  PIC  S9(4).
2096 D              02  DOBMONF     PICTURE X.
2097                02  FILLER REDEFINES DOBMONF.
2098 D                03 DOBMONA     PICTURE X.
2099                02  FILLER  PICTURE X(4).
2100 D              02  DOBMONI  PIC X(2).
2101 D              02  DOBDAYL     COMP  PIC  S9(4).
2102 D              02  DOBDAYF     PICTURE X.
2103                02  FILLER REDEFINES DOBDAYF.
2104 D                03 DOBDAYA     PICTURE X.
2105                02  FILLER  PICTURE X(4).
2106 D              02  DOBDAYI  PIC X(2).
2107 D              02  ACSTFCOL    COMP  PIC  S9(4).
2108 D              02  ACSTFCOF    PICTURE X.
2109                02  FILLER REDEFINES ACSTFCOF.
2110 D                03 ACSTFCOA    PICTURE X.
2111                02  FILLER  PICTURE X(4).
2112 D              02  ACSTFCOI  PIC X(3).
2113 D              02  ACSFNAML    COMP  PIC  S9(4).
2114 D              02  ACSFNAMF    PICTURE X.
2115                02  FILLER REDEFINES ACSFNAMF.
2116 D                03 ACSFNAMA    PICTURE X.
2117                02  FILLER  PICTURE X(4).
2118 D              02  ACSFNAMI  PIC X(25).
2119 D              02  ACSMNAML    COMP  PIC  S9(4).
2120 D              02  ACSMNAMF    PICTURE X.
2121                02  FILLER REDEFINES ACSMNAMF.
2122 D                03 ACSMNAMA    PICTURE X.
2123                02  FILLER  PICTURE X(4).
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2124 D           02  ACSMNAMI  PIC X(25).
2125 D           02  ACSLNAML    COMP  PIC  S9(4).
2126 D           02  ACSLNAMF    PICTURE X.
2127             02  FILLER REDEFINES ACSLNAMF.
2128 D              03 ACSLNAMA   PICTURE X.
2129             02  FILLER  PICTURE X(4).
2130 D           02  ACSLNAMI  PIC X(25).
2131 D           02  ACSADL1L    COMP  PIC  S9(4).
2132 D           02  ACSADL1F    PICTURE X.
2133             02  FILLER REDEFINES ACSADL1F.
2134 D              03 ACSADL1A   PICTURE X.
2135             02  FILLER  PICTURE X(4).
2136 D           02  ACSADL1I  PIC X(50).
2137 D           02  ACSSTTEL    COMP  PIC  S9(4).
2138 D           02  ACSSTTEF    PICTURE X.
2139             02  FILLER REDEFINES ACSSTTEF.
2140 D              03 ACSSTTEA   PICTURE X.
2141             02  FILLER  PICTURE X(4).
2142 D           02  ACSSTTEI  PIC X(2).
2143 D           02  ACSADL2L    COMP  PIC  S9(4).
2144 D           02  ACSADL2F    PICTURE X.
2145             02  FILLER REDEFINES ACSADL2F.
2146 D              03 ACSADL2A   PICTURE X.
2147             02  FILLER  PICTURE X(4).
2148 D           02  ACSADL2I  PIC X(50).
2149 D           02  ACSZIPCL    COMP  PIC  S9(4).
2150 D           02  ACSZIPCF    PICTURE X.
2151             02  FILLER REDEFINES ACSZIPCF.
2152 D              03 ACSZIPCA   PICTURE X.
2153             02  FILLER  PICTURE X(4).
2154 D           02  ACSZIPCI  PIC X(5).
2155 D           02  ACSCITYL    COMP  PIC  S9(4).
2156 D           02  ACSCITYF    PICTURE X.
2157             02  FILLER REDEFINES ACSCITYF.
2158 D              03 ACSCITYA   PICTURE X.
2159             02  FILLER  PICTURE X(4).
2160 D           02  ACSCITYI  PIC X(50).
2161 D           02  ACSCTRYL    COMP  PIC  S9(4).
2162 D           02  ACSCTRYF    PICTURE X.
2163             02  FILLER REDEFINES ACSCTRYF.
2164 D              03 ACSCTRYA   PICTURE X.
2165             02  FILLER  PICTURE X(4).
2166 D           02  ACSCTRYI  PIC X(3).
2167 D           02  ACSPH1AL    COMP  PIC  S9(4).
2168 D           02  ACSPH1AF    PICTURE X.
2169             02  FILLER REDEFINES ACSPH1AF.
2170 D              03 ACSPH1AA   PICTURE X.
2171             02  FILLER  PICTURE X(4).
2172 D           02  ACSPH1AI  PIC X(3).
2173 D           02  ACSPH1BL    COMP  PIC  S9(4).
2174 D           02  ACSPH1BF    PICTURE X.
2175             02  FILLER REDEFINES ACSPH1BF.
2176 D              03 ACSPH1BA   PICTURE X.
2177             02  FILLER  PICTURE X(4).
2178 D           02  ACSPH1BI  PIC X(3).
2179 D           02  ACSPH1CL    COMP  PIC  S9(4).
2180 D           02  ACSPH1CF    PICTURE X.
2181             02  FILLER REDEFINES ACSPH1CF.
2182 D              03 ACSPH1CA   PICTURE X.
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2183                  02  FILLER   PICTURE X(4).
2184 D                02  ACSPH1CI  PIC X(4).
2185 D                02  ACSGOVTL    COMP  PIC  S9(4).
2186 D                02  ACSGOVTF    PICTURE X.
2187                  02  FILLER REDEFINES ACSGOVTF.
2188 D                   03 ACSGOVTA   PICTURE X.
2189                  02  FILLER   PICTURE X(4).
2190 D                02  ACSGOVTI  PIC X(20).
2191 D                02  ACSPH2AL    COMP  PIC  S9(4).
2192 D                02  ACSPH2AF    PICTURE X.
2193                  02  FILLER REDEFINES ACSPH2AF.
2194 D                   03 ACSPH2AA   PICTURE X.
2195                  02  FILLER   PICTURE X(4).
2196 D                02  ACSPH2AI  PIC X(3).
2197 D                02  ACSPH2BL    COMP  PIC  S9(4).
2198 D                02  ACSPH2BF    PICTURE X.
2199                  02  FILLER REDEFINES ACSPH2BF.
2200 D                   03 ACSPH2BA   PICTURE X.
2201                  02  FILLER   PICTURE X(4).
2202 D                02  ACSPH2BI  PIC X(3).
2203 D                02  ACSPH2CL    COMP  PIC  S9(4).
2204 D                02  ACSPH2CF    PICTURE X.
2205                  02  FILLER REDEFINES ACSPH2CF.
2206 D                   03 ACSPH2CA   PICTURE X.
2207                  02  FILLER   PICTURE X(4).
2208 D                02  ACSPH2CI  PIC X(4).
2209 D                02  ACSEFTCL    COMP  PIC  S9(4).
2210 D                02  ACSEFTCF    PICTURE X.
2211                  02  FILLER REDEFINES ACSEFTCF.
2212 D                   03 ACSEFTCA    PICTURE X.
2213                  02  FILLER   PICTURE X(4).
2214 D                02  ACSEFTCI  PIC X(10).
2215 D                02  ACSPFLGL    COMP  PIC  S9(4).
2216 D                02  ACSPFLGF    PICTURE X.
2217                  02  FILLER REDEFINES ACSPFLGF.
2218 D                   03 ACSPFLGA   PICTURE X.
2219                  02  FILLER   PICTURE X(4).
2220 D                02  ACSPFLGI  PIC X(1).
2221 D                02  INFOMSGL    COMP  PIC  S9(4).
2222 D                02  INFOMSGF    PICTURE X.
2223                  02  FILLER REDEFINES INFOMSGF.
2224 D                   03 INFOMSGA   PICTURE X.
2225                  02  FILLER   PICTURE X(4).
2226 D                02  INFOMSGI  PIC X(45).
2227 D                02  ERRMSGL     COMP  PIC  S9(4).
2228 D                02  ERRMSGF    PICTURE X.
2229                  02  FILLER REDEFINES ERRMSGF.
2230 D                   03 ERRMSGA    PICTURE X.
2231                  02  FILLER   PICTURE X(4).
2232 D                02  ERRMSGI  PIC X(78).
2233 D                02  FKEYSL    COMP  PIC  S9(4).
2234 D                02  FKEYSF    PICTURE X.
2235                  02  FILLER REDEFINES FKEYSF.
2236 D                   03 FKEYSA    PICTURE X.
2237                  02  FILLER   PICTURE X(4).
2238 D                02  FKEYSI  PIC X(21).
2239 D                02  FKEY05L    COMP  PIC  S9(4).
2240 D                02  FKEY05F    PICTURE X.
2241                  02  FILLER REDEFINES FKEY05F.
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2242 D              03  FKEY05A     PICTURE  X.
2243                02  FILLER   PICTURE  X(4).
2244 D              02  FKEY05I  PIC X(7).
2245 D              02  FKEY12L    COMP  PIC  S9(4).
2246 D              02  FKEY12F    PICTURE  X.
2247                02  FILLER REDEFINES FKEY12F.
2248 D              03  FKEY12A     PICTURE  X.
2249                02  FILLER   PICTURE  X(4).
2250 D              02  FKEY12I  PIC X(10).
2251 D         01  CACTUPAO REDEFINES CACTUPAI.
2252                02  FILLER PIC X(12).
2253                02  FILLER PICTURE X(3).
2254 D              02  TRNNAMEC    PICTURE  X.
2255 D              02  TRNNAMEP    PICTURE  X.
2256 D              02  TRNNAMEH    PICTURE  X.
2257 D              02  TRNNAMEV    PICTURE  X.
2258 D              02  TRNNAMEO  PIC X(4).
2259                02  FILLER PICTURE X(3).
2260 D              02  TITLE01C    PICTURE  X.
2261 D              02  TITLE01P    PICTURE  X.
2262 D              02  TITLE01H    PICTURE  X.
2263 D              02  TITLE01V    PICTURE  X.
2264 D              02  TITLE01O  PIC X(40).
2265                02  FILLER PICTURE X(3).
2266 D              02  CURDATEC    PICTURE  X.
2267 D              02  CURDATEP    PICTURE  X.
2268 D              02  CURDATEH    PICTURE  X.
2269 D              02  CURDATEV    PICTURE  X.
2270 D              02  CURDATEO  PIC X(8).
2271                02  FILLER PICTURE X(3).
2272 D              02  PGMNAMEC    PICTURE  X.
2273 D              02  PGMNAMEP    PICTURE  X.
2274 D              02  PGMNAMEH    PICTURE  X.
2275 D              02  PGMNAMEV    PICTURE  X.
2276 D              02  PGMNAMEO  PIC X(8).
2277                02  FILLER PICTURE X(3).
2278 D              02  TITLE02C    PICTURE  X.
2279 D              02  TITLE02P    PICTURE  X.
2280 D              02  TITLE02H    PICTURE  X.
2281 D              02  TITLE02V    PICTURE  X.
2282 D              02  TITLE02O  PIC X(40).
2283                02  FILLER PICTURE X(3).
2284 D              02  CURTIMEC    PICTURE  X.
2285 D              02  CURTIMEP    PICTURE  X.
2286 D              02  CURTIMEH    PICTURE  X.
2287 D              02  CURTIMEV    PICTURE  X.
2288 D              02  CURTIMEO  PIC X(8).
2289                02  FILLER PICTURE X(3).
2290 D              02  ACCTSIDC    PICTURE  X.
2291 D              02  ACCTSIDP    PICTURE  X.
2292 D              02  ACCTSIDH    PICTURE  X.
2293 D              02  ACCTSIDV    PICTURE  X.
2294 D              02  ACCTSIDO  PIC X(11).
2295                02  FILLER PICTURE X(3).
2296 D              02  ACSTTUSC    PICTURE  X.
2297 D              02  ACSTTUSP    PICTURE  X.
2298 D              02  ACSTTUSH    PICTURE  X.
2299 D              02  ACSTTUSV    PICTURE  X.
2300 D              02  ACSTTUSO  PIC X(1).
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2301                02  FILLER PICTURE X(3).
2302 D              02  OPNYEARC    PICTURE X.
2303 D              02  OPNYEARP    PICTURE X.
2304 D              02  OPNYEARH    PICTURE X.
2305 D              02  OPNYEARV    PICTURE X.
2306 D              02  OPNYEARO  PIC X(4).
2307                02  FILLER PICTURE X(3).
2308 D              02  OPNMONC     PICTURE X.
2309 D              02  OPNMONP     PICTURE X.
2310 D              02  OPNMONH     PICTURE X.
2311 D              02  OPNMONV     PICTURE X.
2312 D              02  OPNMONO  PIC X(2).
2313                02  FILLER PICTURE X(3).
2314 D              02  OPNDAYC     PICTURE X.
2315 D              02  OPNDAYP     PICTURE X.
2316 D              02  OPNDAYH     PICTURE X.
2317 D              02  OPNDAYV     PICTURE X.
2318 D              02  OPNDAYO  PIC X(2).
2319                02  FILLER PICTURE X(3).
2320 D              02  ACRDLIMC    PICTURE X.
2321 D              02  ACRDLIMP    PICTURE X.
2322 D              02  ACRDLIMH    PICTURE X.
2323 D              02  ACRDLIMV    PICTURE X.
2324 D              02  ACRDLIMO  PIC X(15).
2325                02  FILLER PICTURE X(3).
2326 D              02  EXPYEARC    PICTURE X.
2327 D              02  EXPYEARP    PICTURE X.
2328 D              02  EXPYEARH    PICTURE X.
2329 D              02  EXPYEARV    PICTURE X.
2330 D              02  EXPYEARO  PIC X(4).
2331                02  FILLER PICTURE X(3).
2332 D              02  EXPMONC     PICTURE X.
2333 D              02  EXPMONP     PICTURE X.
2334 D              02  EXPMONH     PICTURE X.
2335 D              02  EXPMONV     PICTURE X.
2336 D              02  EXPMONO  PIC X(2).
2337                02  FILLER PICTURE X(3).
2338 D              02  EXPDAYC     PICTURE X.
2339 D              02  EXPDAYP     PICTURE X.
2340 D              02  EXPDAYH     PICTURE X.
2341 D              02  EXPDAYV     PICTURE X.
2342 D              02  EXPDAYO  PIC X(2).
2343                02  FILLER PICTURE X(3).
2344 D              02  ACSHLIMC    PICTURE X.
2345 D              02  ACSHLIMP    PICTURE X.
2346 D              02  ACSHLIMH    PICTURE X.
2347 D              02  ACSHLIMV    PICTURE X.
2348 D              02  ACSHLIMO  PIC X(15).
2349                02  FILLER PICTURE X(3).
2350 D              02  RISYEARC    PICTURE X.
2351 D              02  RISYEARP    PICTURE X.
2352 D              02  RISYEARH    PICTURE X.
2353 D              02  RISYEARV    PICTURE X.
2354 D              02  RISYEARO  PIC X(4).
2355                02  FILLER PICTURE X(3).
2356 D              02  RISMONC     PICTURE X.
2357 D              02  RISMONP     PICTURE X.
2358 D              02  RISMONH     PICTURE X.
2359 D              02  RISMONV     PICTURE X.
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2360 D          02  RISMONO  PIC X(2).
2361            02  FILLER PICTURE X(3).
2362 D          02  RISDAYC    PICTURE X.
2363 D          02  RISDAYP    PICTURE X.
2364 D          02  RISDAYH    PICTURE X.
2365 D          02  RISDAYV    PICTURE X.
2366 D          02  RISDAYO  PIC X(2).
2367            02  FILLER PICTURE X(3).
2368 D          02  ACURBALC   PICTURE X.
2369 D          02  ACURBALP   PICTURE X.
2370 D          02  ACURBALH   PICTURE X.
2371 D          02  ACURBALV   PICTURE X.
2372 D          02  ACURBALO  PIC X(15).
2373            02  FILLER PICTURE X(3).
2374 D          02  ACRCYCRC    PICTURE X.
2375 D          02  ACRCYCRP    PICTURE X.
2376 D          02  ACRCYCRH    PICTURE X.
2377 D          02  ACRCYCRV    PICTURE X.
2378 D          02  ACRCYCRO  PIC X(15).
2379            02  FILLER PICTURE X(3).
2380 D          02  AADDGRPC    PICTURE X.
2381 D          02  AADDGRPP    PICTURE X.
2382 D          02  AADDGRPH    PICTURE X.
2383 D          02  AADDGRPV    PICTURE X.
2384 D          02  AADDGRPO  PIC X(10).
2385            02  FILLER PICTURE X(3).
2386 D          02  ACRCYDBC    PICTURE X.
2387 D          02  ACRCYDBP    PICTURE X.
2388 D          02  ACRCYDBH    PICTURE X.
2389 D          02  ACRCYDBV    PICTURE X.
2390 D          02  ACRCYDBO  PIC X(15).
2391            02  FILLER PICTURE X(3).
2392 D          02  ACSTNUMC    PICTURE X.
2393 D          02  ACSTNUMP    PICTURE X.
2394 D          02  ACSTNUMH    PICTURE X.
2395 D          02  ACSTNUMV    PICTURE X.
2396 D          02  ACSTNUMO  PIC X(9).
2397            02  FILLER PICTURE X(3).
2398 D          02  ACTSSN1C    PICTURE X.
2399 D          02  ACTSSN1P    PICTURE X.
2400 D          02  ACTSSN1H    PICTURE X.
2401 D          02  ACTSSN1V    PICTURE X.
2402 D          02  ACTSSN1O  PIC X(3).
2403            02  FILLER PICTURE X(3).
2404 D          02  ACTSSN2C    PICTURE X.
2405 D          02  ACTSSN2P    PICTURE X.
2406 D          02  ACTSSN2H    PICTURE X.
2407 D          02  ACTSSN2V    PICTURE X.
2408 D          02  ACTSSN2O  PIC X(2).
2409            02  FILLER PICTURE X(3).
2410 D          02  ACTSSN3C    PICTURE X.
2411 D          02  ACTSSN3P    PICTURE X.
2412 D          02  ACTSSN3H    PICTURE X.
2413 D          02  ACTSSN3V    PICTURE X.
2414 D          02  ACTSSN3O  PIC X(4).
2415            02  FILLER PICTURE X(3).
2416 D          02  DOBYEARC    PICTURE X.
2417 D          02  DOBYEARP    PICTURE X.
2418 D          02  DOBYEARH    PICTURE X.
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2419 D            02  DOBYEARV    PICTURE X.
2420 D            02  DOBYEARO  PIC X(4).
2421              02  FILLER PICTURE X(3).
2422 D            02  DOBMONC    PICTURE X.
2423 D            02  DOBMONP    PICTURE X.
2424 D            02  DOBMONH    PICTURE X.
2425 D            02  DOBMONV    PICTURE X.
2426 D            02  DOBMONO  PIC X(2).
2427              02  FILLER PICTURE X(3).
2428 D            02  DOBDAYC    PICTURE X.
2429 D            02  DOBDAYP    PICTURE X.
2430 D            02  DOBDAYH    PICTURE X.
2431 D            02  DOBDAYV    PICTURE X.
2432 D            02  DOBDAYO  PIC X(2).
2433              02  FILLER PICTURE X(3).
2434 D            02  ACSTFCOC   PICTURE X.
2435 D            02  ACSTFCOP   PICTURE X.
2436 D            02  ACSTFCOH   PICTURE X.
2437 D            02  ACSTFCOV   PICTURE X.
2438 D            02  ACSTFCOO  PIC X(3).
2439              02  FILLER PICTURE X(3).
2440 D            02  ACSFNAMC    PICTURE X.
2441 D            02  ACSFNAMP    PICTURE X.
2442 D            02  ACSFNAMH    PICTURE X.
2443 D            02  ACSFNAMV    PICTURE X.
2444 D            02  ACSFNAMO  PIC X(25).
2445              02  FILLER PICTURE X(3).
2446 D            02  ACSMNAMC    PICTURE X.
2447 D            02  ACSMNAMP    PICTURE X.
2448 D            02  ACSMNAMH    PICTURE X.
2449 D            02  ACSMNAMV    PICTURE X.
2450 D            02  ACSMNAMO  PIC X(25).
2451              02  FILLER PICTURE X(3).
2452 D            02  ACSLNAMC    PICTURE X.
2453 D            02  ACSLNAMP    PICTURE X.
2454 D            02  ACSLNAMH    PICTURE X.
2455 D            02  ACSLNAMV    PICTURE X.
2456 D            02  ACSLNAMO  PIC X(25).
2457              02  FILLER PICTURE X(3).
2458 D            02  ACSADL1C    PICTURE X.
2459 D            02  ACSADL1P    PICTURE X.
2460 D            02  ACSADL1H    PICTURE X.
2461 D            02  ACSADL1V    PICTURE X.
2462 D            02  ACSADL1O  PIC X(50).
2463              02  FILLER PICTURE X(3).
2464 D            02  ACSSTTEC    PICTURE X.
2465 D            02  ACSSTTEP    PICTURE X.
2466 D            02  ACSSTTEH    PICTURE X.
2467 D            02  ACSSTTEV    PICTURE X.
2468 D            02  ACSSTTEO  PIC X(2).
2469              02  FILLER PICTURE X(3).
2470 D            02  ACSADL2C    PICTURE X.
2471 D            02  ACSADL2P    PICTURE X.
2472 D            02  ACSADL2H    PICTURE X.
2473 D            02  ACSADL2V    PICTURE X.
2474 D            02  ACSADL2O  PIC X(50).
2475              02  FILLER PICTURE X(3).
2476 D            02  ACSZIPCC    PICTURE X.
2477 D            02  ACSZIPCP    PICTURE X.
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2478 D          02  ACSZIPCH   PICTURE X.
2479 D          02  ACSZIPCV   PICTURE X.
2480 D          02  ACSZIPCO  PIC X(5).
2481            02  FILLER PICTURE X(3).
2482 D          02  ACSCITYC   PICTURE X.
2483 D          02  ACSCITYP   PICTURE X.
2484 D          02  ACSCITYH   PICTURE X.
2485 D          02  ACSCITYV   PICTURE X.
2486 D          02  ACSCITYO  PIC X(50).
2487            02  FILLER PICTURE X(3).
2488 D          02  ACSCTRYC   PICTURE X.
2489 D          02  ACSCTRYP   PICTURE X.
2490 D          02  ACSCTRYH   PICTURE X.
2491 D          02  ACSCTRYV   PICTURE X.
2492 D          02  ACSCTRYO  PIC X(3).
2493            02  FILLER PICTURE X(3).
2494 D          02  ACSPH1AC   PICTURE X.
2495 D          02  ACSPH1AP   PICTURE X.
2496 D          02  ACSPH1AH   PICTURE X.
2497 D          02  ACSPH1AV   PICTURE X.
2498 D          02  ACSPH1AO  PIC X(3).
2499            02  FILLER PICTURE X(3).
2500 D          02  ACSPH1BC   PICTURE X.
2501 D          02  ACSPH1BP   PICTURE X.
2502 D          02  ACSPH1BH   PICTURE X.
2503 D          02  ACSPH1BV   PICTURE X.
2504 D          02  ACSPH1BO  PIC X(3).
2505            02  FILLER PICTURE X(3).
2506 D          02  ACSPH1CC   PICTURE X.
2507 D          02  ACSPH1CP   PICTURE X.
2508 D          02  ACSPH1CH   PICTURE X.
2509 D          02  ACSPH1CV   PICTURE X.
2510 D          02  ACSPH1CO  PIC X(4).
2511            02  FILLER PICTURE X(3).
2512 D          02  ACSGOVTC   PICTURE X.
2513 D          02  ACSGOVTP   PICTURE X.
2514 D          02  ACSGOVTH   PICTURE X.
2515 D          02  ACSGOVTV   PICTURE X.
2516 D          02  ACSGOVTO  PIC X(20).
2517            02  FILLER PICTURE X(3).
2518 D          02  ACSPH2AC   PICTURE X.
2519 D          02  ACSPH2AP   PICTURE X.
2520 D          02  ACSPH2AH   PICTURE X.
2521 D          02  ACSPH2AV   PICTURE X.
2522 D          02  ACSPH2AO  PIC X(3).
2523            02  FILLER PICTURE X(3).
2524 D          02  ACSPH2BC   PICTURE X.
2525 D          02  ACSPH2BP   PICTURE X.
2526 D          02  ACSPH2BH   PICTURE X.
2527 D          02  ACSPH2BV   PICTURE X.
2528 D          02  ACSPH2BO  PIC X(3).
2529            02  FILLER PICTURE X(3).
2530 D          02  ACSPH2CC   PICTURE X.
2531 D          02  ACSPH2CP   PICTURE X.
2532 D          02  ACSPH2CH   PICTURE X.
2533 D          02  ACSPH2CV   PICTURE X.
2534 D          02  ACSPH2CO  PIC X(4).
2535            02  FILLER PICTURE X(3).
2536 D          02  ACSEFTCC   PICTURE X.
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2537 D             02  ACSEFTCP   PICTURE X.
2538 D             02  ACSEFTCH   PICTURE X.
2539 D             02  ACSEFTCV   PICTURE X.
2540 D             02  ACSEFTCO  PIC X(10).
2541               02  FILLER PICTURE X(3).
2542 D             02  ACSPFLGC   PICTURE X.
2543 D             02  ACSPFLGP   PICTURE X.
2544 D             02  ACSPFLGH   PICTURE X.
2545 D             02  ACSPFLGV   PICTURE X.
2546 D             02  ACSPFLGO  PIC X(1).
2547               02  FILLER PICTURE X(3).
2548 D             02  INFOMSGC   PICTURE X.
2549 D             02  INFOMSGP   PICTURE X.
2550 D             02  INFOMSGH   PICTURE X.
2551 D             02  INFOMSGV   PICTURE X.
2552 D             02  INFOMSGO  PIC X(45).
2553               02  FILLER PICTURE X(3).
2554 D             02  ERRMSGC    PICTURE X.
2555 D             02  ERRMSGP    PICTURE X.
2556 D             02  ERRMSGH    PICTURE X.
2557 D             02  ERRMSGV    PICTURE X.
2558 D             02  ERRMSGO  PIC X(78).
2559               02  FILLER PICTURE X(3).
2560 D             02  FKEYSC    PICTURE X.
2561 D             02  FKEYSP    PICTURE X.
2562 D             02  FKEYSH    PICTURE X.
2563 D             02  FKEYSV    PICTURE X.
2564 D             02  FKEYSO  PIC X(21).
2565               02  FILLER PICTURE X(3).
2566 D             02  FKEY05C    PICTURE X.
2567 D             02  FKEY05P    PICTURE X.
2568 D             02  FKEY05H    PICTURE X.
2569 D             02  FKEY05V    PICTURE X.
2570 D             02  FKEY05O  PIC X(7).
2571               02  FILLER PICTURE X(3).
2572 D             02  FKEY12C    PICTURE X.
2573 D             02  FKEY12P    PICTURE X.
2574 D             02  FKEY12H    PICTURE X.
2575 D             02  FKEY12V    PICTURE X.
2576 D             02  FKEY12O  PIC X(10).
2577          01 WS-DATE-TIME.
2578            05 WS-CURDATE-DATA.
2579 D           10  WS-CURDATE.
2580 D             15  WS-CURDATE-YEAR       PIC 9(04).
2581 D             15  WS-CURDATE-MONTH      PIC 9(02).
2582 D             15  WS-CURDATE-DAY        PIC 9(02).
2583 D           10 WS-CURDATE-N REDEFINES WS-CURDATE PIC 9(08).
2584 D           10  WS-CURTIME.
2585 D             15  WS-CURTIME-HOURS      PIC 9(02).
2586 D             15  WS-CURTIME-MINUTE     PIC 9(02).
2587 D             15  WS-CURTIME-SECOND     PIC 9(02).
2588 D             15  WS-CURTIME-MILSEC     PIC 9(02).
2589 D           10 WS-CURTIME-N REDEFINES WS-CURTIME PIC 9(08).
2590            05 WS-CURDATE-MM-DD-YY.
2591 D           10  WS-CURDATE-MM             PIC 9(02).
2592            10  FILLER                    PIC X(01) VALUE '/'.
2593 D           10  WS-CURDATE-DD             PIC 9(02).
2594            10  FILLER                    PIC X(01) VALUE '/'.
2595 D           10  WS-CURDATE-YY             PIC 9(02).
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2596              05 WS-CURTIME-HH-MM-SS.
2597 D               10  WS-CURTIME-HH            PIC 9(02).
2598                 10  FILLER                   PIC X(01) VALUE ':'.
2599 D               10  WS-CURTIME-MM            PIC 9(02).
2600                 10  FILLER                   PIC X(01) VALUE ':'.
2601 D               10  WS-CURTIME-SS            PIC 9(02).
2602              05 WS-TIMESTAMP.
2603 D               10  WS-TIMESTAMP-DT-YYYY     PIC 9(04).
2604                 10  FILLER                   PIC X(01) VALUE '-'.
2605 D               10  WS-TIMESTAMP-DT-MM       PIC 9(02).
2606                 10  FILLER                   PIC X(01) VALUE '-'.
2607 D               10  WS-TIMESTAMP-DT-DD       PIC 9(02).
2608                 10  FILLER                   PIC X(01) VALUE ' '.
2609 D               10  WS-TIMESTAMP-TM-HH       PIC 9(02).
2610                 10  FILLER                   PIC X(01) VALUE ':'.
2611 D               10  WS-TIMESTAMP-TM-MM       PIC 9(02).
2612                 10  FILLER                   PIC X(01) VALUE ':'.
2613 D               10  WS-TIMESTAMP-TM-SS       PIC 9(02).
2614                 10  FILLER                   PIC X(01) VALUE '.'.
2615 D               10  WS-TIMESTAMP-TM-MS6      PIC 9(06).
2616          01 CCDA-COMMON-MESSAGES.
2617 D           05 CCDA-MSG-THANK-YOU        PIC X(50) VALUE
2618 D               'THANK YOU FOR USING CARDDEMO APPLICATION...      '.
2619 D           05 CCDA-MSG-INVALID-KEY      PIC X(50) VALUE
2620 D               'INVALID KEY PRESSED. PLEASE SEE BELOW...         '.
2621          01  ABEND-DATA.
2622 D           05  ABEND-CODE                        PIC X(4)
2623 D               VALUE SPACES.
2624 D           05  ABEND-CULPRIT                     PIC X(8)
2625 D               VALUE SPACES.
2626 D           05  ABEND-REASON                      PIC X(50)
2627 D               VALUE SPACES.
2628 D           05  ABEND-MSG                         PIC X(72)
2629 D               VALUE SPACES.
2630          01 SEC-USER-DATA.
2631 D           05 SEC-USR-ID            PIC X(08).
2632 D           05 SEC-USR-FNAME         PIC X(20).
2633 D           05 SEC-USR-LNAME         PIC X(20).
2634 D           05 SEC-USR-PWD           PIC X(08).
2635 D           05 SEC-USR-TYPE          PIC X(01).
2636 D           05 SEC-USR-FILLER        PIC X(23).
2637          01  ACCOUNT-RECORD.
2638 D           05  ACCT-ID                           PIC 9(11).
2639 D           05  ACCT-ACTIVE-STATUS                PIC X(01).
2640 D           05  ACCT-CURR-BAL                     PIC S9(10)V99.
2641 D           05  ACCT-CREDIT-LIMIT                 PIC S9(10)V99.
2642 D           05  ACCT-CASH-CREDIT-LIMIT            PIC S9(10)V99.
2643 D           05  ACCT-OPEN-DATE                    PIC X(10).
2644 D           05  ACCT-EXPIRAION-DATE               PIC X(10).
2645 D           05  ACCT-REISSUE-DATE                 PIC X(10).
2646 D           05  ACCT-CURR-CYC-CREDIT              PIC S9(10)V99.
2647 D           05  ACCT-CURR-CYC-DEBIT               PIC S9(10)V99.
2648 D           05  ACCT-ADDR-ZIP                     PIC X(10).
2649 D           05  ACCT-GROUP-ID                     PIC X(10).
2650              05  FILLER                           PIC X(178).
2651          01 CARD-XREF-RECORD.
2652 D           05  XREF-CARD-NUM                     PIC X(16).
2653 D           05  XREF-CUST-ID                      PIC 9(09).
2654 D           05  XREF-ACCT-ID                      PIC 9(11).
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2655                   05  FILLER                          PIC X(14).
2656              01  CUSTOMER-RECORD.
2657 D                 05  CUST-ID                          PIC 9(09).
2658 D                 05  CUST-FIRST-NAME                  PIC X(25).
2659 D                 05  CUST-MIDDLE-NAME                 PIC X(25).
2660 D                 05  CUST-LAST-NAME                   PIC X(25).
2661 D                 05  CUST-ADDR-LINE-1                 PIC X(50).
2662 D                 05  CUST-ADDR-LINE-2                 PIC X(50).
2663 D                 05  CUST-ADDR-LINE-3                 PIC X(50).
2664 D                 05  CUST-ADDR-STATE-CD               PIC X(02).
2665 D                 05  CUST-ADDR-COUNTRY-CD             PIC X(03).
2666 D                 05  CUST-ADDR-ZIP                    PIC X(10).
2667 D                 05  CUST-PHONE-NUM-1                 PIC X(15).
2668 D                 05  CUST-PHONE-NUM-2                 PIC X(15).
2669 D                 05  CUST-SSN                         PIC 9(09).
2670 D                 05  CUST-GOVT-ISSUED-ID              PIC X(20).
2671 D                 05  CUST-DOB-YYYY-MM-DD              PIC X(10).
2672 D                 05  CUST-EFT-ACCOUNT-ID              PIC X(10).
2673 D                 05  CUST-PRI-CARD-HOLDER-IND         PIC X(01).
2674 D                 05  CUST-FICO-CREDIT-SCORE           PIC 9(03).
2675                   05  FILLER                           PIC X(168).
2676              01  CARDDEMO-COMMAREA.
2677                 05 CDEMO-GENERAL-INFO.
2678 D                 10 CDEMO-FROM-TRANID          PIC X(04).
2679 D                 10 CDEMO-FROM-PROGRAM         PIC X(08).
2680 D                 10 CDEMO-TO-TRANID            PIC X(04).
2681 D                 10 CDEMO-TO-PROGRAM           PIC X(08).
2682 D                 10 CDEMO-USER-ID              PIC X(08).
2683 D                 10 CDEMO-USER-TYPE            PIC X(01).
2684                      88 CDEMO-USRTYP-ADMIN      VALUE 'A'.
2685                      88 CDEMO-USRTYP-USER       VALUE 'U'.
2686 D                 10 CDEMO-PGM-CONTEXT          PIC 9(01).
2687 D                   88 CDEMO-PGM-ENTER          VALUE 0.
2688 D                   88 CDEMO-PGM-REENTER        VALUE 1.
2689                 05 CDEMO-CUSTOMER-INFO.
2690 D                 10 CDEMO-CUST-ID              PIC 9(09).
2691 D                 10 CDEMO-CUST-FNAME           PIC X(25).
2692 D                 10 CDEMO-CUST-MNAME           PIC X(25).
2693 D                 10 CDEMO-CUST-LNAME           PIC X(25).
2694                 05 CDEMO-ACCOUNT-INFO.
2695 D                 10 CDEMO-ACCT-ID              PIC 9(11).
2696 D                 10 CDEMO-ACCT-STATUS          PIC X(01).
2697                 05 CDEMO-CARD-INFO.
2698 D                 10 CDEMO-CARD-NUM             PIC 9(16).
2699                 05 CDEMO-MORE-INFO.
2700 D                 10  CDEMO-LAST-MAP            PIC X(7).
2701 D                 10  CDEMO-LAST-MAPSET         PIC X(7).
2702              01 WS-THIS-PROGCOMMAREA.
2703                 05 ACCT-UPDATE-SCREEN-DATA.
2704 D                 10 ACUP-CHANGE-ACTION                 PIC X(1)
2705 D                                                       VALUE LOW-VALUES.
2706 D                     88 ACUP-DETAILS-NOT-FETCHED       VALUES
2707 D                                                       LOW-VALUES,
2708 D                                                       SPACES.
2709                       88 ACUP-SHOW-DETAILS              VALUE 'S'.
2710 D                     88 ACUP-CHANGES-MADE              VALUES 'E', 'N'
2711 D                                                       , 'C', 'L'
2712 D                                                       , 'F'.
2713                       88 ACUP-CHANGES-NOT-OK            VALUE 'E'.
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2714 D                  88 ACUP-CHANGES-OK-NOT-CONFIRMED       VALUE 'N'.
2715 D                  88 ACUP-CHANGES-OKAYED-AND-DONE        VALUE 'C'.
2716                    88 ACUP-CHANGES-FAILED                 VALUES 'L', 'F'.
2717                    88 ACUP-CHANGES-OKAYED-LOCK-ERROR      VALUE 'L'.
2718                    88 ACUP-CHANGES-OKAYED-BUT-FAILED      VALUE 'F'.
2719             05 ACUP-OLD-DETAILS.
2720 D             10 ACUP-OLD-ACCT-DATA.
2721 D               15  ACUP-OLD-ACCT-ID-X              PIC X(11).
2722 D               15  ACUP-OLD-ACCT-ID                REDEFINES
2723 D                   ACUP-OLD-ACCT-ID-X              PIC 9(11).
2724 D               15  ACUP-OLD-ACTIVE-STATUS          PIC X(01).
2725 D               15  ACUP-OLD-CURR-BAL               PIC X(12).
2726 D               15  ACUP-OLD-CURR-BAL-N REDEFINES
2727 D                   ACUP-OLD-CURR-BAL               PIC S9(10)V99.
2728 D               15  ACUP-OLD-CREDIT-LIMIT           PIC X(12).
2729 D               15  ACUP-OLD-CREDIT-LIMIT-N         REDEFINES
2730 D                   ACUP-OLD-CREDIT-LIMIT           PIC S9(10)V99.
2731 D               15  ACUP-OLD-CASH-CREDIT-LIMIT      PIC X(12).
2732 D               15  ACUP-OLD-CASH-CREDIT-LIMIT-N    REDEFINES
2733 D                   ACUP-OLD-CASH-CREDIT-LIMIT      PIC S9(10)V99.
2734 D               15  ACUP-OLD-OPEN-DATE              PIC X(08).
2735 D               15  ACUP-OLD-OPEN-DATE-PARTS        REDEFINES
2736 D                   ACUP-OLD-OPEN-DATE.
2737 D                   20 ACUP-OLD-OPEN-YEAR           PIC X(4).
2738 D                   20 ACUP-OLD-OPEN-MON            PIC X(2).
2739 D                   20 ACUP-OLD-OPEN-DAY            PIC X(2).
2740 D               15  ACUP-OLD-EXPIRAION-DATE         PIC X(08).
2741 D               15  ACUP-OLD-EXPIRAION-DATE-PARTS   REDEFINES
2742 D                   ACUP-OLD-EXPIRAION-DATE.
2743 D                   20 ACUP-OLD-EXP-YEAR             PIC X(4).
2744 D                   20 ACUP-OLD-EXP-MON              PIC X(2).
2745 D                   20 ACUP-OLD-EXP-DAY              PIC X(2).
2746 D               15  ACUP-OLD-REISSUE-DATE           PIC X(08).
2747 D               15  ACUP-OLD-REISSUE-DATE-PARTS     REDEFINES
2748 D                   ACUP-OLD-REISSUE-DATE.
2749 D                   20 ACUP-OLD-REISSUE-YEAR        PIC X(4).
2750 D                   20 ACUP-OLD-REISSUE-MON         PIC X(2).
2751 D                   20 ACUP-OLD-REISSUE-DAY         PIC X(2).
2752 D               15  ACUP-OLD-CURR-CYC-CREDIT        PIC X(12).
2753 D               15  ACUP-OLD-CURR-CYC-CREDIT-N      REDEFINES
2754 D                   ACUP-OLD-CURR-CYC-CREDIT        PIC S9(10)V99.
2755 D               15  ACUP-OLD-CURR-CYC-DEBIT         PIC X(12).
2756 D               15  ACUP-OLD-CURR-CYC-DEBIT-N       REDEFINES
2757 D                   ACUP-OLD-CURR-CYC-DEBIT         PIC S9(10)V99.
2758 D               15  ACUP-OLD-GROUP-ID               PIC X(10).
2759 D             10 ACUP-OLD-CUST-DATA.
2760 D               15  ACUP-OLD-CUST-ID-X              PIC X(09).
2761 D               15  ACUP-OLD-CUST-ID                REDEFINES
2762 D                   ACUP-OLD-CUST-ID-X              PIC 9(09).
2763 D               15  ACUP-OLD-CUST-FIRST-NAME        PIC X(25).
2764 D               15  ACUP-OLD-CUST-MIDDLE-NAME       PIC X(25).
2765 D               15  ACUP-OLD-CUST-LAST-NAME         PIC X(25).
2766 D               15  ACUP-OLD-CUST-ADDR-LINE-1       PIC X(50).
2767 D               15  ACUP-OLD-CUST-ADDR-LINE-2       PIC X(50).
2768 D               15  ACUP-OLD-CUST-ADDR-LINE-3       PIC X(50).
2769 D               15  ACUP-OLD-CUST-ADDR-STATE-CD     PIC X(02).
2770 D               15  ACUP-OLD-CUST-ADDR-COUNTRY-CD   PIC X(03).
2771 D               15  ACUP-OLD-CUST-ADDR-ZIP          PIC X(10).
2772 D               15  ACUP-OLD-CUST-PHONE-NUM-1       PIC X(15).
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2773 D                    15 ACUP-OLD-CUST-PHONE-NUM-1-X REDEFINES
2774 D                       ACUP-OLD-CUST-PHONE-NUM-1.
2775                            20 FILLER                     PIC X(1).
2776 D                         20 ACUP-OLD-CUST-PHONE-NUM-1A   PIC X(3).
2777                            20 FILLER                     PIC X(1).
2778 D                         20 ACUP-OLD-CUST-PHONE-NUM-1B   PIC X(3).
2779                            20 FILLER                     PIC X(1).
2780 D                         20 ACUP-OLD-CUST-PHONE-NUM-1C   PIC X(4).
2781                            20 FILLER                     PIC X(2).
2782 D                    15 ACUP-OLD-CUST-PHONE-NUM-2        PIC X(15).
2783 D                    15 ACUP-OLD-CUST-PHONE-NUM-2-X REDEFINES
2784 D                       ACUP-OLD-CUST-PHONE-NUM-2.
2785                            20 FILLER                     PIC X(1).
2786 D                         20 ACUP-OLD-CUST-PHONE-NUM-2A   PIC X(3).
2787                            20 FILLER                     PIC X(1).
2788 D                         20 ACUP-OLD-CUST-PHONE-NUM-2B   PIC X(3).
2789                            20 FILLER                     PIC X(1).
2790 D                         20 ACUP-OLD-CUST-PHONE-NUM-2C   PIC X(4).
2791                            20 FILLER                     PIC X(2).
2792 D                    15 ACUP-OLD-CUST-SSN-X              PIC X(09).
2793 D                    15 ACUP-OLD-CUST-SSN               REDEFINES
2794 D                       ACUP-OLD-CUST-SSN-X              PIC 9(09).
2795 D                    15 ACUP-OLD-CUST-GOVT-ISSUED-ID     PIC X(20).
2796 D                    15 ACUP-OLD-CUST-DOB-YYYY-MM-DD     PIC X(08).
2797 D                    15 ACUP-OLD-CUST-DOB-PARTS          REDEFINES
2798 D                       ACUP-OLD-CUST-DOB-YYYY-MM-DD.
2799 D                         20 ACUP-OLD-CUST-DOB-YEAR      PIC X(4).
2800 D                         20 ACUP-OLD-CUST-DOB-MON       PIC X(2).
2801 D                         20 ACUP-OLD-CUST-DOB-DAY       PIC X(2).
2802 D                    15 ACUP-OLD-CUST-EFT-ACCOUNT-ID     PIC X(10).
2803 D                    15 ACUP-OLD-CUST-PRI-HOLDER-IND     PIC X(01).
2804 D                    15 ACUP-OLD-CUST-FICO-SCORE-X       PIC X(03).
2805 D                    15 ACUP-OLD-CUST-FICO-SCORE         REDEFINES
2806 D                       ACUP-OLD-CUST-FICO-SCORE-X       PIC 9(03).
2807             05 ACUP-NEW-DETAILS.
2808 D              10 ACUP-NEW-ACCT-DATA.
2809 D                    15 ACUP-NEW-ACCT-ID-X               PIC X(11).
2810 D                    15 ACUP-NEW-ACCT-ID                 REDEFINES
2811 D                       ACUP-NEW-ACCT-ID-X               PIC 9(11).
2812 D                    15 ACUP-NEW-ACTIVE-STATUS           PIC X(01).
2813 D                    15 ACUP-NEW-CURR-BAL                PIC X(12).
2814 D                    15 ACUP-NEW-CURR-BAL-N              REDEFINES
2815 D                       ACUP-NEW-CURR-BAL                PIC S9(10)V99.
2816 D                    15 ACUP-NEW-CREDIT-LIMIT            PIC X(12).
2817 D                    15 ACUP-NEW-CREDIT-LIMIT-N          REDEFINES
2818 D                       ACUP-NEW-CREDIT-LIMIT            PIC S9(10)V99.
2819 D                    15 ACUP-NEW-CASH-CREDIT-LIMIT       PIC X(12).
2820 D                    15 ACUP-NEW-CASH-CREDIT-LIMIT-N     REDEFINES
2821 D                       ACUP-NEW-CASH-CREDIT-LIMIT       PIC S9(10)V99.
2822 D                    15 ACUP-NEW-OPEN-DATE               PIC X(08).
2823 D                    15 ACUP-NEW-OPEN-DATE-PARTS         REDEFINES
2824 D                       ACUP-NEW-OPEN-DATE.
2825 D                         20 ACUP-NEW-OPEN-YEAR          PIC X(4).
2826 D                         20 ACUP-NEW-OPEN-MON           PIC X(2).
2827 D                         20 ACUP-NEW-OPEN-DAY           PIC X(2).
2828 D                    15 ACUP-NEW-EXPIRAION-DATE          PIC X(08).
2829 D                    15 ACUP-NEW-EXPIRAION-DATE-PARTS    REDEFINES
2830 D                       ACUP-NEW-EXPIRAION-DATE.
2831 D                         20 ACUP-NEW-EXP-YEAR           PIC X(4).
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2832 D                    20 ACUP-NEW-EXP-MON                PIC X(2).
2833 D                    20 ACUP-NEW-EXP-DAY                PIC X(2).
2834 D              15 ACUP-NEW-REISSUE-DATE                 PIC X(08).
2835 D              15 ACUP-NEW-REISSUE-DATE-PARTS           REDEFINES
2836 D                 ACUP-NEW-REISSUE-DATE.
2837 D                    20 ACUP-NEW-REISSUE-YEAR           PIC X(4).
2838 D                    20 ACUP-NEW-REISSUE-MON            PIC X(2).
2839 D                    20 ACUP-NEW-REISSUE-DAY            PIC X(2).
2840 D              15 ACUP-NEW-CURR-CYC-CREDIT              PIC X(12).
2841 D              15 ACUP-NEW-CURR-CYC-CREDIT-N            REDEFINES
2842 D                 ACUP-NEW-CURR-CYC-CREDIT              PIC S9(10)V99.
2843 D              15 ACUP-NEW-CURR-CYC-DEBIT               PIC X(12).
2844 D              15 ACUP-NEW-CURR-CYC-DEBIT-N             REDEFINES
2845 D                 ACUP-NEW-CURR-CYC-DEBIT               PIC S9(10)V99.
2846 D              15 ACUP-NEW-GROUP-ID                     PIC X(10).
2847 D           10 ACUP-NEW-CUST-DATA.
2848 D              15 ACUP-NEW-CUST-ID-X                    PIC X(09).
2849 D              15 ACUP-NEW-CUST-ID                      REDEFINES
2850 D                 ACUP-NEW-CUST-ID-X                    PIC 9(09).
2851 D              15 ACUP-NEW-CUST-FIRST-NAME              PIC X(25).
2852 D              15 ACUP-NEW-CUST-MIDDLE-NAME             PIC X(25).
2853 D              15 ACUP-NEW-CUST-LAST-NAME               PIC X(25).
2854 D              15 ACUP-NEW-CUST-ADDR-LINE-1             PIC X(50).
2855 D              15 ACUP-NEW-CUST-ADDR-LINE-2             PIC X(50).
2856 D              15 ACUP-NEW-CUST-ADDR-LINE-3             PIC X(50).
2857 D              15 ACUP-NEW-CUST-ADDR-STATE-CD           PIC X(02).
2858 D              15 ACUP-NEW-CUST-ADDR-COUNTRY-CD         PIC X(03).
2859 D              15 ACUP-NEW-CUST-ADDR-ZIP                PIC X(10).
2860 D              15 ACUP-NEW-CUST-PHONE-NUM-1             PIC X(15).
2861 D              15 ACUP-NEW-CUST-PHONE-NUM-1-X REDEFINES
2862 D                 ACUP-NEW-CUST-PHONE-NUM-1.
2863                    20 FILLER                            PIC X(1).
2864 D                    20 ACUP-NEW-CUST-PHONE-NUM-1A      PIC X(3).
2865                    20 FILLER                            PIC X(1).
2866 D                    20 ACUP-NEW-CUST-PHONE-NUM-1B      PIC X(3).
2867                    20 FILLER                            PIC X(1).
2868 D                    20 ACUP-NEW-CUST-PHONE-NUM-1C      PIC X(4).
2869                    20 FILLER                            PIC X(2).
2870 D              15 ACUP-NEW-CUST-PHONE-NUM-2             PIC X(15).
2871 D              15 ACUP-NEW-CUST-PHONE-NUM-2-X REDEFINES
2872 D                 ACUP-NEW-CUST-PHONE-NUM-2.
2873                    20 FILLER                            PIC X(1).
2874 D                    20 ACUP-NEW-CUST-PHONE-NUM-2A      PIC X(3).
2875                    20 FILLER                            PIC X(1).
2876 D                    20 ACUP-NEW-CUST-PHONE-NUM-2B      PIC X(3).
2877                    20 FILLER                            PIC X(1).
2878 D                    20 ACUP-NEW-CUST-PHONE-NUM-2C      PIC X(4).
2879                    20 FILLER                            PIC X(2).
2880                 15 ACUP-NEW-CUST-SSN-X.
2881 D                    20 ACUP-NEW-CUST-SSN-1             PIC X(03).
2882 D                    20 ACUP-NEW-CUST-SSN-2             PIC X(02).
2883 D                    20 ACUP-NEW-CUST-SSN-3             PIC X(04).
2884 D              15 ACUP-NEW-CUST-SSN                     REDEFINES
2885 D                 ACUP-NEW-CUST-SSN-X                   PIC 9(09).
2886 D              15 ACUP-NEW-CUST-GOVT-ISSUED-ID          PIC X(20).
2887 D              15 ACUP-NEW-CUST-DOB-YYYY-MM-DD          PIC X(08).
2888 D              15 ACUP-NEW-CUST-DOB-PARTS               REDEFINES
2889 D                 ACUP-NEW-CUST-DOB-YYYY-MM-DD.
2890 D                    20 ACUP-NEW-CUST-DOB-YEAR          PIC X(4).
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2891 D                    20 ACUP-NEW-CUST-DOB-MON        PIC X(2).
2892 D                    20 ACUP-NEW-CUST-DOB-DAY        PIC X(2).
2893 D              15  ACUP-NEW-CUST-EFT-ACCOUNT-ID      PIC X(10).
2894 D              15  ACUP-NEW-CUST-PRI-HOLDER-IND      PIC X(01).
2895 D              15  ACUP-NEW-CUST-FICO-SCORE-X        PIC X(03).
2896 D              15  ACUP-NEW-CUST-FICO-SCORE          REDEFINES
2897 D                  ACUP-NEW-CUST-FICO-SCORE-X        PIC 9(03).
2898 D                  88 FICO-RANGE-IS-VALID            VALUES 300
2899 D                                                    THROUGH 850.
2900 D        01  WS-COMMAREA                             PIC X(2000).
2901          LINKAGE SECTION.
2902          01  DFHCOMMAREA.
2903            05  FILLER                                PIC X(1)
2904                OCCURS 1 TO 32767 TIMES DEPENDING ON EIBCALEN.
2905          PROCEDURE DIVISION.
2906 R        0000-MAIN.
2907 R            EXEC CICS HANDLE ABEND
2908 R                      LABEL(ABEND-ROUTINE)
2909 R            END-EXEC
2910 R            INITIALIZE CC-WORK-AREA
2911 R                       WS-MISC-STORAGE
2912 R                       WS-COMMAREA
2913 R            MOVE LIT-THISTRANID       TO WS-TRANID
2914 R            SET WS-RETURN-MSG-OFF  TO TRUE
2915 R            IF EIBCALEN IS EQUAL TO 0
2916 R               OR (CDEMO-FROM-PROGRAM = LIT-MENUPGM
2917 R                AND NOT CDEMO-PGM-REENTER)
2918 R               INITIALIZE CARDDEMO-COMMAREA
2919 R                          WS-THIS-PROGCOMMAREA
2920 R               SET CDEMO-PGM-ENTER TO TRUE
2921 R               SET ACUP-DETAILS-NOT-FETCHED TO TRUE
2922 R            ELSE
2923 R               MOVE DFHCOMMAREA (1:LENGTH OF CARDDEMO-COMMAREA)  TO
2924 R                              CARDDEMO-COMMAREA
2925 R               MOVE DFHCOMMAREA(LENGTH OF CARDDEMO-COMMAREA + 1:
2926 R                              LENGTH OF WS-THIS-PROGCOMMAREA ) TO
2927 R                              WS-THIS-PROGCOMMAREA
2928 R            END-IF
2929 R            PERFORM YYYY-STORE-PFKEY
2930 R               THRU YYYY-STORE-PFKEY-EXIT
2931 R            SET PFK-INVALID TO TRUE
2932 R            IF CCARD-AID-ENTER OR
2933 R               CCARD-AID-PFK03 OR
2934 R               (CCARD-AID-PFK05 AND ACUP-CHANGES-OK-NOT-CONFIRMED)
2935 R                            OR
2936 R               (CCARD-AID-PFK12 AND NOT ACUP-DETAILS-NOT-FETCHED)
2937 R               SET PFK-VALID TO TRUE
2938 R            END-IF
2939 R            IF PFK-INVALID
2940 R               SET CCARD-AID-ENTER TO TRUE
2941 R            END-IF
2942 R            EVALUATE TRUE
2943 R              WHEN CCARD-AID-PFK03
2944 R                    SET CCARD-AID-PFK03     TO TRUE
2945 R                    IF CDEMO-FROM-TRANID    EQUAL LOW-VALUES
2946 R                    OR CDEMO-FROM-TRANID    EQUAL SPACES
2947 R                       MOVE LIT-MENUTRANID  TO CDEMO-TO-TRANID
2948 R                    ELSE
2949 R                       MOVE CDEMO-FROM-TRANID  TO CDEMO-TO-TRANID
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2950 R                    END-IF
2951 R                    IF CDEMO-FROM-PROGRAM    EQUAL LOW-VALUES
2952 R                    OR CDEMO-FROM-PROGRAM    EQUAL SPACES
2953 R                        MOVE LIT-MENUPGM       TO CDEMO-TO-PROGRAM
2954 R                    ELSE
2955 R                        MOVE CDEMO-FROM-PROGRAM TO CDEMO-TO-PROGRAM
2956 R                    END-IF
2957 R                    MOVE LIT-THISTRANID     TO CDEMO-FROM-TRANID
2958 R                    MOVE LIT-THISPGM        TO CDEMO-FROM-PROGRAM
2959 R                    SET  CDEMO-USRTYP-USER  TO TRUE
2960 R                    SET  CDEMO-PGM-ENTER    TO TRUE
2961 R                    MOVE LIT-THISMAPSET     TO CDEMO-LAST-MAPSET
2962 R                    MOVE LIT-THISMAP        TO CDEMO-LAST-MAP
2963 R                    EXEC CICS
2964 R                        SYNCPOINT
2965 R                    END-EXEC
2966 R                    EXEC CICS XCTL
2967 R                        PROGRAM (CDEMO-TO-PROGRAM)
2968 R                        COMMAREA(CARDDEMO-COMMAREA)
2969 R                    END-EXEC
2970 R               WHEN ACUP-DETAILS-NOT-FETCHED
2971 R                AND CDEMO-PGM-ENTER
2972 R               WHEN CDEMO-FROM-PROGRAM    EQUAL LIT-MENUPGM
2973 R                AND NOT CDEMO-PGM-REENTER
2974 R                    INITIALIZE WS-THIS-PROGCOMMAREA
2975 R                    PERFORM 3000-SEND-MAP THRU
2976 R                        3000-SEND-MAP-EXIT
2977 R                    SET CDEMO-PGM-REENTER       TO TRUE
2978 R                    SET ACUP-DETAILS-NOT-FETCHED TO TRUE
2979 R                    GO TO COMMON-RETURN
2980 R               WHEN ACUP-CHANGES-OKAYED-AND-DONE
2981 R               WHEN ACUP-CHANGES-FAILED
2982 R                    INITIALIZE WS-THIS-PROGCOMMAREA
2983 R                            WS-MISC-STORAGE
2984 R                            CDEMO-ACCT-ID
2985 R                    SET CDEMO-PGM-ENTER          TO TRUE
2986 R                    PERFORM 3000-SEND-MAP THRU
2987 R                        3000-SEND-MAP-EXIT
2988 R                    SET CDEMO-PGM-REENTER        TO TRUE
2989 R                    SET ACUP-DETAILS-NOT-FETCHED  TO TRUE
2990 R                    GO TO COMMON-RETURN
2991 R               WHEN OTHER
2992 R                    PERFORM 1000-PROCESS-INPUTS
2993 R                        THRU 1000-PROCESS-INPUTS-EXIT
2994 R                    PERFORM 2000-DECIDE-ACTION
2995 R                        THRU 2000-DECIDE-ACTION-EXIT
2996 R                    PERFORM 3000-SEND-MAP
2997 R                        THRU 3000-SEND-MAP-EXIT
2998 R                    GO TO COMMON-RETURN
2999 R           END-EVALUATE
3000 R           .
3001       COMMON-RETURN.
3002           MOVE WS-RETURN-MSG    TO CCARD-ERROR-MSG
3003           MOVE  CARDDEMO-COMMAREA    TO WS-COMMAREA
3004           MOVE  WS-THIS-PROGCOMMAREA TO
3005               WS-COMMAREA(LENGTH OF CARDDEMO-COMMAREA + 1:
3006                           LENGTH OF WS-THIS-PROGCOMMAREA )
3007           EXEC CICS RETURN
3008               TRANSID (LIT-THISTRANID)
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3009                     COMMAREA (WS-COMMAREA)
3010                     LENGTH(LENGTH OF WS-COMMAREA)
3011                 END-EXEC
3012                 .
3013             0000-MAIN-EXIT.
3014                 EXIT
3015                 .
3016             1000-PROCESS-INPUTS.
3017                 PERFORM 1100-RECEIVE-MAP
3018                    THRU 1100-RECEIVE-MAP-EXIT
3019                 PERFORM 1200-EDIT-MAP-INPUTS
3020                    THRU 1200-EDIT-MAP-INPUTS-EXIT
3021                 MOVE WS-RETURN-MSG  TO CCARD-ERROR-MSG
3022                 MOVE LIT-THISPGM    TO CCARD-NEXT-PROG
3023                 MOVE LIT-THISMAPSET TO CCARD-NEXT-MAPSET
3024                 MOVE LIT-THISMAP    TO CCARD-NEXT-MAP
3025                 .
3026             1000-PROCESS-INPUTS-EXIT.
3027                 EXIT
3028                 .
3029 R          1100-RECEIVE-MAP.
3030 R              EXEC CICS RECEIVE MAP(LIT-THISMAP)
3031 R                        MAPSET(LIT-THISMAPSET)
3032 R                        INTO(CACTUPAI)
3033 R                        RESP(WS-RESP-CD)
3034 R                        RESP2(WS-REAS-CD)
3035 R              END-EXEC
3036 R              INITIALIZE ACUP-NEW-DETAILS
3037 R              IF  ACCTSIDI OF CACTUPAI = '*'
3038 R              OR  ACCTSIDI OF CACTUPAI = SPACES
3039 R                  MOVE LOW-VALUES            TO CC-ACCT-ID
3040 R                                               ACUP-NEW-ACCT-ID-X
3041 R              ELSE
3042 R                  MOVE ACCTSIDI OF CACTUPAI TO CC-ACCT-ID
3043 R                                               ACUP-NEW-ACCT-ID-X
3044 R              END-IF
3045 R              IF ACUP-DETAILS-NOT-FETCHED
3046 R                 GO TO 1100-RECEIVE-MAP-EXIT
3047 R              END-IF
3048 R              IF  ACSTTUSI OF CACTUPAI = '*'
3049 R              OR  ACSTTUSI OF CACTUPAI = SPACES
3050 R                  MOVE LOW-VALUES           TO ACUP-NEW-ACTIVE-STATUS
3051 R              ELSE
3052 R                  MOVE ACSTTUSI OF CACTUPAI TO ACUP-NEW-ACTIVE-STATUS
3053 R              END-IF
3054 R              IF  ACRDLIMI OF CACTUPAI = '*'
3055 R              OR  ACRDLIMI OF CACTUPAI = SPACES
3056 R                  MOVE LOW-VALUES          TO ACUP-NEW-CREDIT-LIMIT-X
3057 R              ELSE
3058 R                  MOVE ACRDLIMI OF CACTUPAI TO ACUP-NEW-CREDIT-LIMIT-X
3059 R                  IF FUNCTION TEST-NUMVAL-C(ACUP-NEW-CREDIT-LIMIT-X) = 0
3060 R                     COMPUTE ACUP-NEW-CREDIT-LIMIT-N =
3061 R                         FUNCTION NUMVAL-C(ACRDLIMI OF CACTUPAI)
3062 R                     ELSE
3063 R                        CONTINUE
3064 R                     END-IF
3065 R              END-IF
3066 R              IF  ACSHLIMI OF CACTUPAI = '*'
3067 R              OR  ACSHLIMI OF CACTUPAI = SPACES
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3068 R                MOVE LOW-VALUES              TO ACUP-NEW-CASH-CREDIT-LIMIT-X
3069 R             ELSE
3070 R               MOVE ACSHLIMI OF CACTUPAI TO ACUP-NEW-CASH-CREDIT-LIMIT-X
3071 R               IF FUNCTION TEST-NUMVAL-C(ACUP-NEW-CASH-CREDIT-LIMIT-X) = 0
3072 R                   COMPUTE ACUP-NEW-CASH-CREDIT-LIMIT-N =
3073 R                       FUNCTION NUMVAL-C(ACSHLIMI OF CACTUPAI)
3074 R                 ELSE
3075 R                    CONTINUE
3076 R                 END-IF
3077 R             END-IF
3078 R             IF  ACURBALI OF CACTUPAI = '*'
3079 R             OR  ACURBALI OF CACTUPAI = SPACES
3080 R                 MOVE LOW-VALUES            TO ACUP-NEW-CURR-BAL-X
3081 R             ELSE
3082 R                 MOVE ACURBALI OF CACTUPAI TO ACUP-NEW-CURR-BAL-X
3083 R                 IF  FUNCTION TEST-NUMVAL-C(ACUP-NEW-CURR-BAL-X) = 0
3084 R                     COMPUTE ACUP-NEW-CURR-BAL-N =
3085 R                         FUNCTION NUMVAL-C(ACUP-NEW-CURR-BAL-X)
3086 R                 ELSE
3087 R                     CONTINUE
3088 R                 END-IF
3089 R             END-IF
3090 R             IF  ACRCYCRI OF CACTUPAI = '*'
3091 R             OR  ACRCYCRI OF CACTUPAI = SPACES
3092 R                 MOVE LOW-VALUES            TO ACUP-NEW-CURR-CYC-CREDIT-X
3093 R             ELSE
3094 R                 MOVE ACRCYCRI OF CACTUPAI TO ACUP-NEW-CURR-CYC-CREDIT-X
3095 R                 IF FUNCTION TEST-NUMVAL-C(ACUP-NEW-CURR-CYC-CREDIT-X) = 0
3096 R                     COMPUTE ACUP-NEW-CURR-CYC-CREDIT-N =
3097 R                         FUNCTION NUMVAL-C(ACRCYCRI OF CACTUPAI)
3098 R                 ELSE
3099 R                     CONTINUE
3100 R                 END-IF
3101 R             END-IF
3102 R             IF  ACRCYDBI OF CACTUPAI = '*'
3103 R             OR  ACRCYDBI OF CACTUPAI = SPACES
3104 R                 MOVE LOW-VALUES            TO ACUP-NEW-CURR-CYC-DEBIT-X
3105 R             ELSE
3106 R                 MOVE ACRCYDBI OF CACTUPAI TO ACUP-NEW-CURR-CYC-DEBIT-X
3107 R                 IF  FUNCTION TEST-NUMVAL-C(ACUP-NEW-CURR-CYC-DEBIT-X) = 0
3108 R                     COMPUTE ACUP-NEW-CURR-CYC-DEBIT-N =
3109 R                         FUNCTION NUMVAL-C(ACRCYDBI OF CACTUPAI)
3110 R                 ELSE
3111 R                     CONTINUE
3112 R                 END-IF
3113 R             END-IF
3114 R             IF  OPNYEARI OF CACTUPAI = '*'
3115 R             OR  OPNYEARI OF CACTUPAI = SPACES
3116 R                 MOVE LOW-VALUES            TO ACUP-NEW-OPEN-YEAR
3117 R             ELSE
3118 R                 MOVE OPNYEARI OF CACTUPAI TO ACUP-NEW-OPEN-YEAR
3119 R             END-IF
3120 R             IF  OPNMONI OF CACTUPAI = '*'
3121 R             OR  OPNMONI OF CACTUPAI = SPACES
3122 R                 MOVE LOW-VALUES            TO  ACUP-NEW-OPEN-MON
3123 R             ELSE
3124 R                 MOVE OPNMONI OF CACTUPAI TO  ACUP-NEW-OPEN-MON
3125 R             END-IF
3126 R             IF  OPNDAYI OF CACTUPAI = '*'
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3127 R               OR  OPNDAYI OF CACTUPAI = SPACES
3128 R                    MOVE LOW-VALUES          TO ACUP-NEW-OPEN-DAY
3129 R               ELSE
3130 R                    MOVE OPNDAYI OF CACTUPAI TO  ACUP-NEW-OPEN-DAY
3131 R               END-IF
3132 R               IF  EXPYEARI OF CACTUPAI = '*'
3133 R               OR  EXPYEARI OF CACTUPAI = SPACES
3134 R                    MOVE LOW-VALUES          TO ACUP-NEW-EXP-YEAR
3135 R               ELSE
3136 R                    MOVE EXPYEARI OF CACTUPAI TO ACUP-NEW-EXP-YEAR
3137 R               END-IF
3138 R               IF  EXPMONI OF CACTUPAI = '*'
3139 R               OR  EXPMONI OF CACTUPAI = SPACES
3140 R                    MOVE LOW-VALUES          TO ACUP-NEW-EXP-MON
3141 R               ELSE
3142 R                    MOVE EXPMONI OF CACTUPAI TO  ACUP-NEW-EXP-MON
3143 R               END-IF
3144 R               IF  EXPDAYI OF CACTUPAI = '*'
3145 R               OR  EXPDAYI OF CACTUPAI = SPACES
3146 R                    MOVE LOW-VALUES          TO ACUP-NEW-EXP-DAY
3147 R               ELSE
3148 R                    MOVE EXPDAYI OF CACTUPAI TO  ACUP-NEW-EXP-DAY
3149 R               END-IF
3150 R               IF  RISYEARI OF CACTUPAI = '*'
3151 R               OR  RISYEARI OF CACTUPAI = SPACES
3152 R                    MOVE LOW-VALUES          TO ACUP-NEW-REISSUE-YEAR
3153 R               ELSE
3154 R                    MOVE RISYEARI OF CACTUPAI TO ACUP-NEW-REISSUE-YEAR
3155 R               END-IF
3156 R               IF  RISMONI OF CACTUPAI = '*'
3157 R               OR  RISMONI OF CACTUPAI = SPACES
3158 R                    MOVE LOW-VALUES          TO ACUP-NEW-REISSUE-MON
3159 R               ELSE
3160 R                    MOVE RISMONI OF CACTUPAI TO  ACUP-NEW-REISSUE-MON
3161 R               END-IF
3162 R               IF  RISDAYI OF CACTUPAI = '*'
3163 R               OR  RISDAYI OF CACTUPAI = SPACES
3164 R                    MOVE LOW-VALUES          TO ACUP-NEW-REISSUE-DAY
3165 R               ELSE
3166 R                    MOVE RISDAYI OF CACTUPAI TO  ACUP-NEW-REISSUE-DAY
3167 R               END-IF
3168 R               IF  AADDGRPI OF CACTUPAI = '*'
3169 R               OR  AADDGRPI OF CACTUPAI = SPACES
3170 R                    MOVE LOW-VALUES          TO ACUP-NEW-GROUP-ID
3171 R               ELSE
3172 R                    MOVE AADDGRPI OF CACTUPAI TO ACUP-NEW-GROUP-ID
3173 R               END-IF
3174 R               IF  ACSTNUMI OF CACTUPAI = '*'
3175 R               OR  ACSTNUMI OF CACTUPAI = SPACES
3176 R                    MOVE LOW-VALUES          TO ACUP-NEW-CUST-ID-X
3177 R               ELSE
3178 R                    MOVE ACSTNUMI OF CACTUPAI TO ACUP-NEW-CUST-ID-X
3179 R               END-IF
3180 R               IF  ACTSSN1I OF CACTUPAI = '*'
3181 R               OR  ACTSSN1I OF CACTUPAI = SPACES
3182 R                    MOVE LOW-VALUES          TO ACUP-NEW-CUST-SSN-1
3183 R               ELSE
3184 R                    MOVE ACTSSN1I OF CACTUPAI TO ACUP-NEW-CUST-SSN-1
3185 R               END-IF
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3186 R               IF  ACTSSN2I OF CACTUPAI = '*'
3187 R               OR  ACTSSN2I OF CACTUPAI = SPACES
3188 R                   MOVE LOW-VALUES          TO ACUP-NEW-CUST-SSN-2
3189 R               ELSE
3190 R                   MOVE ACTSSN2I OF CACTUPAI TO ACUP-NEW-CUST-SSN-2
3191 R               END-IF
3192 R               IF  ACTSSN3I OF CACTUPAI = '*'
3193 R               OR  ACTSSN3I OF CACTUPAI = SPACES
3194 R                   MOVE LOW-VALUES          TO ACUP-NEW-CUST-SSN-3
3195 R               ELSE
3196 R                   MOVE ACTSSN3I OF CACTUPAI TO ACUP-NEW-CUST-SSN-3
3197 R               END-IF
3198 R               IF  DOBYEARI OF CACTUPAI = '*'
3199 R               OR  DOBYEARI OF CACTUPAI = SPACES
3200 R                   MOVE LOW-VALUES          TO ACUP-NEW-CUST-DOB-YEAR
3201 R               ELSE
3202 R                   MOVE DOBYEARI OF CACTUPAI TO ACUP-NEW-CUST-DOB-YEAR
3203 R               END-IF
3204 R               IF  DOBMONI OF CACTUPAI = '*'
3205 R               OR  DOBMONI OF CACTUPAI = SPACES
3206 R                   MOVE LOW-VALUES          TO ACUP-NEW-CUST-DOB-MON
3207 R               ELSE
3208 R                   MOVE DOBMONI OF CACTUPAI  TO ACUP-NEW-CUST-DOB-MON
3209 R               END-IF
3210 R               IF  DOBDAYI OF CACTUPAI = '*'
3211 R               OR  DOBDAYI OF CACTUPAI = SPACES
3212 R                   MOVE LOW-VALUES          TO ACUP-NEW-CUST-DOB-DAY
3213 R               ELSE
3214 R                   MOVE DOBDAYI OF CACTUPAI  TO ACUP-NEW-CUST-DOB-DAY
3215 R               END-IF
3216 R               IF  ACSTFCOI OF CACTUPAI = '*'
3217 R               OR  ACSTFCOI OF CACTUPAI = SPACES
3218 R                   MOVE LOW-VALUES          TO ACUP-NEW-CUST-FICO-SCORE-X
3219 R               ELSE
3220 R                   MOVE ACSTFCOI OF CACTUPAI TO ACUP-NEW-CUST-FICO-SCORE-X
3221 R               END-IF
3222 R               IF  ACSFNAMI OF CACTUPAI = '*'
3223 R               OR  ACSFNAMI OF CACTUPAI = SPACES
3224 R                   MOVE LOW-VALUES          TO ACUP-NEW-CUST-FIRST-NAME
3225 R               ELSE
3226 R                   MOVE ACSFNAMI OF CACTUPAI TO ACUP-NEW-CUST-FIRST-NAME
3227 R               END-IF
3228 R               IF  ACSMNAMI OF CACTUPAI = '*'
3229 R               OR  ACSMNAMI OF CACTUPAI = SPACES
3230 R                   MOVE LOW-VALUES          TO ACUP-NEW-CUST-MIDDLE-NAME
3231 R               ELSE
3232 R                   MOVE ACSMNAMI OF CACTUPAI TO ACUP-NEW-CUST-MIDDLE-NAME
3233 R               END-IF
3234 R               IF  ACSLNAMI OF CACTUPAI = '*'
3235 R               OR  ACSLNAMI OF CACTUPAI = SPACES
3236 R                   MOVE LOW-VALUES          TO ACUP-NEW-CUST-LAST-NAME
3237 R               ELSE
3238 R                   MOVE ACSLNAMI OF CACTUPAI TO ACUP-NEW-CUST-LAST-NAME
3239 R               END-IF
3240 R               IF  ACSADL1I OF CACTUPAI = '*'
3241 R               OR  ACSADL1I OF CACTUPAI = SPACES
3242 R                   MOVE LOW-VALUES          TO ACUP-NEW-CUST-ADDR-LINE-1
3243 R               ELSE
3244 R                   MOVE ACSADL1I OF CACTUPAI TO ACUP-NEW-CUST-ADDR-LINE-1
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3245 R              END-IF
3246 R              IF  ACSADL2I OF CACTUPAI = '*'
3247 R              OR  ACSADL2I OF CACTUPAI = SPACES
3248 R                  MOVE LOW-VALUES           TO ACUP-NEW-CUST-ADDR-LINE-2
3249 R              ELSE
3250 R                  MOVE ACSADL2I OF CACTUPAI TO ACUP-NEW-CUST-ADDR-LINE-2
3251 R              END-IF
3252 R              IF  ACSCITYI OF CACTUPAI = '*'
3253 R              OR  ACSCITYI OF CACTUPAI = SPACES
3254 R                  MOVE LOW-VALUES           TO ACUP-NEW-CUST-ADDR-LINE-3
3255 R              ELSE
3256 R                  MOVE ACSCITYI OF CACTUPAI TO ACUP-NEW-CUST-ADDR-LINE-3
3257 R              END-IF
3258 R              IF  ACSSTTEI OF CACTUPAI = '*'
3259 R              OR  ACSSTTEI OF CACTUPAI = SPACES
3260 R                  MOVE LOW-VALUES           TO ACUP-NEW-CUST-ADDR-STATE-CD
3261 R              ELSE
3262 R                  MOVE ACSSTTEI OF CACTUPAI TO ACUP-NEW-CUST-ADDR-STATE-CD
3263 R              END-IF
3264 R              IF  ACSCTRYI OF CACTUPAI = '*'
3265 R              OR  ACSCTRYI OF CACTUPAI = SPACES
3266 R                  MOVE LOW-VALUES           TO ACUP-NEW-CUST-ADDR-COUNTRY-CD
3267 R              ELSE
3268 R                  MOVE ACSCTRYI OF CACTUPAI TO ACUP-NEW-CUST-ADDR-COUNTRY-CD
3269 R              END-IF
3270 R              IF  ACSZIPCI OF CACTUPAI = '*'
3271 R              OR  ACSZIPCI OF CACTUPAI = SPACES
3272 R                  MOVE LOW-VALUES           TO ACUP-NEW-CUST-ADDR-ZIP
3273 R              ELSE
3274 R                  MOVE ACSZIPCI OF CACTUPAI TO ACUP-NEW-CUST-ADDR-ZIP
3275 R              END-IF
3276 R              IF  ACSPH1AI OF CACTUPAI = '*'
3277 R              OR  ACSPH1AI OF CACTUPAI = SPACES
3278 R                  MOVE LOW-VALUES           TO ACUP-NEW-CUST-PHONE-NUM-1A
3279 R              ELSE
3280 R                  MOVE ACSPH1AI OF CACTUPAI TO ACUP-NEW-CUST-PHONE-NUM-1A
3281 R              END-IF
3282 R              IF  ACSPH1BI OF CACTUPAI = '*'
3283 R              OR  ACSPH1BI OF CACTUPAI = SPACES
3284 R                  MOVE LOW-VALUES           TO ACUP-NEW-CUST-PHONE-NUM-1B
3285 R              ELSE
3286 R                  MOVE ACSPH1BI OF CACTUPAI TO ACUP-NEW-CUST-PHONE-NUM-1B
3287 R              END-IF
3288 R              IF  ACSPH1CI OF CACTUPAI = '*'
3289 R              OR  ACSPH1CI OF CACTUPAI = SPACES
3290 R                  MOVE LOW-VALUES           TO ACUP-NEW-CUST-PHONE-NUM-1C
3291 R              ELSE
3292 R                  MOVE ACSPH1CI OF CACTUPAI TO ACUP-NEW-CUST-PHONE-NUM-1C
3293 R              END-IF
3294 R              IF  ACSPH2AI OF CACTUPAI = '*'
3295 R              OR  ACSPH2AI OF CACTUPAI = SPACES
3296 R                  MOVE LOW-VALUES           TO ACUP-NEW-CUST-PHONE-NUM-2A
3297 R              ELSE
3298 R                  MOVE ACSPH2AI OF CACTUPAI TO ACUP-NEW-CUST-PHONE-NUM-2A
3299 R              END-IF
3300 R              IF  ACSPH2BI OF CACTUPAI = '*'
3301 R              OR  ACSPH2BI OF CACTUPAI = SPACES
3302 R                  MOVE LOW-VALUES           TO ACUP-NEW-CUST-PHONE-NUM-2B
3303 R              ELSE
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3304 R              MOVE ACSPH2BI OF CACTUPAI TO ACUP-NEW-CUST-PHONE-NUM-2B
3305 R          END-IF
3306 R          IF  ACSPH2CI OF CACTUPAI = '*'
3307 R          OR  ACSPH2CI OF CACTUPAI = SPACES
3308 R              MOVE LOW-VALUES          TO ACUP-NEW-CUST-PHONE-NUM-2C
3309 R          ELSE
3310 R              MOVE ACSPH2CI OF CACTUPAI TO ACUP-NEW-CUST-PHONE-NUM-2C
3311 R          END-IF
3312 R          IF  ACSGOVTI OF CACTUPAI = '*'
3313 R          OR  ACSGOVTI OF CACTUPAI = SPACES
3314 R              MOVE LOW-VALUES          TO ACUP-NEW-CUST-GOVT-ISSUED-ID
3315 R          ELSE
3316 R              MOVE ACSGOVTI OF CACTUPAI TO ACUP-NEW-CUST-GOVT-ISSUED-ID
3317 R          END-IF
3318 R          IF  ACSEFTCI OF CACTUPAI = '*'
3319 R          OR  ACSEFTCI OF CACTUPAI = SPACES
3320 R              MOVE LOW-VALUES          TO ACUP-NEW-CUST-EFT-ACCOUNT-ID
3321 R          ELSE
3322 R              MOVE ACSEFTCI OF CACTUPAI TO ACUP-NEW-CUST-EFT-ACCOUNT-ID
3323 R          END-IF
3324 R          IF  ACSPFLGI OF CACTUPAI = '*'
3325 R          OR  ACSPFLGI OF CACTUPAI = SPACES
3326 R              MOVE LOW-VALUES          TO ACUP-NEW-CUST-PRI-HOLDER-IND
3327 R          ELSE
3328 R              MOVE ACSPFLGI OF CACTUPAI  TO ACUP-NEW-CUST-PRI-HOLDER-IND
3329 R          END-IF
3330 R          .
3331       1100-RECEIVE-MAP-EXIT.
3332           EXIT
3333           .
3334 R     1200-EDIT-MAP-INPUTS.
3335 R          SET INPUT-OK                 TO TRUE
3336 R          IF  ACUP-DETAILS-NOT-FETCHED
3337 R              PERFORM 1210-EDIT-ACCOUNT
3338 R                  THRU 1210-EDIT-ACCOUNT-EXIT
3339 R              MOVE LOW-VALUES          TO ACUP-OLD-ACCT-DATA
3340 R            IF  FLG-ACCTFILTER-BLANK
3341 R                SET NO-SEARCH-CRITERIA-RECEIVED TO TRUE
3342 R            END-IF
3343 R            GO TO 1200-EDIT-MAP-INPUTS-EXIT
3344 R          ELSE
3345 R              CONTINUE
3346 R          END-IF
3347 R          SET FOUND-ACCOUNT-DATA       TO TRUE
3348 R          SET FOUND-ACCT-IN-MASTER     TO TRUE
3349 R          SET FLG-ACCTFILTER-ISVALID   TO TRUE
3350 R          SET FOUND-CUST-IN-MASTER     TO TRUE
3351 R          SET FLG-CUSTFILTER-ISVALID   TO TRUE
3352 R          PERFORM 1205-COMPARE-OLD-NEW
3353 R              THRU 1205-COMPARE-OLD-NEW-EXIT
3354 R          IF  NO-CHANGES-FOUND
3355 R          OR  ACUP-CHANGES-OK-NOT-CONFIRMED
3356 R          OR  ACUP-CHANGES-OKAYED-AND-DONE
3357 R              MOVE LOW-VALUES          TO WS-NON-KEY-FLAGS
3358 R              GO TO 1200-EDIT-MAP-INPUTS-EXIT
3359 R          END-IF
3360 R          SET ACUP-CHANGES-NOT-OK      TO TRUE
3361 R          MOVE 'ACCOUNT STATUS'        TO WS-EDIT-VARIABLE-NAME
3362 R          MOVE ACUP-NEW-ACTIVE-STATUS   TO WS-EDIT-YES-NO
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3363 R              PERFORM 1220-EDIT-YESNO
3364 R                  THRU 1220-EDIT-YESNO-EXIT
3365 R              MOVE WS-EDIT-YES-NO              TO WS-EDIT-ACCT-STATUS
3366 R              MOVE 'OPEN DATE'                 TO WS-EDIT-VARIABLE-NAME
3367 R              MOVE ACUP-NEW-OPEN-DATE          TO WS-EDIT-DATE-CCYYMMDD
3368 R              PERFORM EDIT-DATE-CCYYMMDD
3369 R                  THRU EDIT-DATE-CCYYMMDD-EXIT
3370 R              MOVE WS-EDIT-DATE-FLGS           TO WS-EDIT-OPEN-DATE-FLGS
3371 R              MOVE 'CREDIT LIMIT'              TO WS-EDIT-VARIABLE-NAME
3372 R              MOVE ACUP-NEW-CREDIT-LIMIT-X  TO WS-EDIT-SIGNED-NUMBER-9V2-X
3373 R              PERFORM 1250-EDIT-SIGNED-9V2
3374 R                  THRU 1250-EDIT-SIGNED-9V2-EXIT
3375 R              MOVE WS-FLG-SIGNED-NUMBER-EDIT  TO WS-EDIT-CREDIT-LIMIT
3376 R              MOVE 'EXPIRY DATE'               TO WS-EDIT-VARIABLE-NAME
3377 R              MOVE ACUP-NEW-EXPIRAION-DATE  TO WS-EDIT-DATE-CCYYMMDD
3378 R              PERFORM EDIT-DATE-CCYYMMDD
3379 R                  THRU EDIT-DATE-CCYYMMDD-EXIT
3380 R              MOVE WS-EDIT-DATE-FLGS           TO WS-EXPIRY-DATE-FLGS
3381 R              MOVE 'CASH CREDIT LIMIT'         TO WS-EDIT-VARIABLE-NAME
3382 R              MOVE ACUP-NEW-CASH-CREDIT-LIMIT-X
3383 R                                              TO WS-EDIT-SIGNED-NUMBER-9V2-X
3384 R              PERFORM 1250-EDIT-SIGNED-9V2
3385 R                  THRU 1250-EDIT-SIGNED-9V2-EXIT
3386 R              MOVE WS-FLG-SIGNED-NUMBER-EDIT TO WS-EDIT-CASH-CREDIT-LIMIT
3387 R              MOVE 'REISSUE DATE'              TO WS-EDIT-VARIABLE-NAME
3388 R              MOVE ACUP-NEW-REISSUE-DATE       TO WS-EDIT-DATE-CCYYMMDD
3389 R              PERFORM EDIT-DATE-CCYYMMDD
3390 R                  THRU EDIT-DATE-CCYYMMDD-EXIT
3391 R              MOVE WS-EDIT-DATE-FLGS           TO WS-EDIT-REISSUE-DATE-FLGS
3392 R              MOVE 'CURRENT BALANCE'           TO WS-EDIT-VARIABLE-NAME
3393 R              MOVE ACUP-NEW-CURR-BAL-X         TO WS-EDIT-SIGNED-NUMBER-9V2-X
3394 R              PERFORM 1250-EDIT-SIGNED-9V2
3395 R                  THRU 1250-EDIT-SIGNED-9V2-EXIT
3396 R              MOVE WS-FLG-SIGNED-NUMBER-EDIT   TO WS-EDIT-CURR-BAL
3397 R              MOVE 'CURRENT CYCLE CREDIT LIMIT' TO WS-EDIT-VARIABLE-NAME
3398 R              MOVE ACUP-NEW-CURR-CYC-CREDIT-X
3399 R                                              TO WS-EDIT-SIGNED-NUMBER-9V2-X
3400 R              PERFORM 1250-EDIT-SIGNED-9V2
3401 R                  THRU 1250-EDIT-SIGNED-9V2-EXIT
3402 R              MOVE WS-FLG-SIGNED-NUMBER-EDIT   TO WS-EDIT-CURR-CYC-CREDIT
3403 R              MOVE 'CURRENT CYCLE DEBIT LIMIT' TO WS-EDIT-VARIABLE-NAME
3404 R              MOVE ACUP-NEW-CURR-CYC-DEBIT-X
3405 R                                              TO WS-EDIT-SIGNED-NUMBER-9V2-X
3406 R              PERFORM 1250-EDIT-SIGNED-9V2
3407 R                  THRU 1250-EDIT-SIGNED-9V2-EXIT
3408 R              MOVE WS-FLG-SIGNED-NUMBER-EDIT   TO WS-EDIT-CURR-CYC-DEBIT
3409 R              MOVE 'SSN'                       TO WS-EDIT-VARIABLE-NAME
3410 R              PERFORM 1265-EDIT-US-SSN
3411 R                  THRU 1265-EDIT-US-SSN-EXIT
3412 R              MOVE 'DATE OF BIRTH'             TO WS-EDIT-VARIABLE-NAME
3413 R              MOVE   ACUP-NEW-CUST-DOB-YYYY-MM-DD
3414 R                                              TO WS-EDIT-DATE-CCYYMMDD
3415 R              PERFORM EDIT-DATE-CCYYMMDD
3416 R                  THRU EDIT-DATE-CCYYMMDD-EXIT
3417 R              MOVE WS-EDIT-DATE-FLGS           TO WS-EDIT-DT-OF-BIRTH-FLGS
3418 R              IF WS-EDIT-DT-OF-BIRTH-ISVALID
3419 R                  PERFORM  EDIT-DATE-OF-BIRTH
3420 R                      THRU  EDIT-DATE-OF-BIRTH-EXIT
3421 R                  MOVE WS-EDIT-DATE-FLGS     TO WS-EDIT-DT-OF-BIRTH-FLGS
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3422 R            END-IF
3423 R            MOVE 'FICO SCORE'                TO WS-EDIT-VARIABLE-NAME
3424 R            MOVE ACUP-NEW-CUST-FICO-SCORE-X
3425 R                                            TO WS-EDIT-ALPHANUM-ONLY
3426 R            MOVE 3                           TO WS-EDIT-ALPHANUM-LENGTH
3427 R            PERFORM 1245-EDIT-NUM-REQD
3428 R                THRU 1245-EDIT-NUM-REQD-EXIT
3429 R            MOVE WS-EDIT-ALPHANUM-ONLY-FLAGS
3430 R                                            TO WS-EDIT-FICO-SCORE-FLGS
3431 R            IF FLG-FICO-SCORE-ISVALID
3432 R                PERFORM  1275-EDIT-FICO-SCORE
3433 R                    THRU   1275-EDIT-FICO-SCORE-EXIT
3434 R            END-IF
3435 R            MOVE 'FIRST NAME'               TO WS-EDIT-VARIABLE-NAME
3436 R            MOVE ACUP-NEW-CUST-FIRST-NAME TO WS-EDIT-ALPHANUM-ONLY
3437 R            MOVE 25                          TO WS-EDIT-ALPHANUM-LENGTH
3438 R            PERFORM 1225-EDIT-ALPHA-REQD
3439 R                THRU 1225-EDIT-ALPHA-REQD-EXIT
3440 R            MOVE WS-EDIT-ALPHA-ONLY-FLAGS
3441 R                                            TO WS-EDIT-FIRST-NAME-FLGS
3442 R            MOVE 'MIDDLE NAME'              TO WS-EDIT-VARIABLE-NAME
3443 R            MOVE ACUP-NEW-CUST-MIDDLE-NAME TO WS-EDIT-ALPHANUM-ONLY
3444 R            MOVE 25                          TO WS-EDIT-ALPHANUM-LENGTH
3445 R            PERFORM 1235-EDIT-ALPHA-OPT
3446 R                THRU 1235-EDIT-ALPHA-OPT-EXIT
3447 R            MOVE WS-EDIT-ALPHA-ONLY-FLAGS
3448 R                                            TO WS-EDIT-MIDDLE-NAME-FLGS
3449 R            MOVE 'LAST NAME'                TO WS-EDIT-VARIABLE-NAME
3450 R            MOVE ACUP-NEW-CUST-LAST-NAME   TO WS-EDIT-ALPHANUM-ONLY
3451 R            MOVE 25                          TO WS-EDIT-ALPHANUM-LENGTH
3452 R            PERFORM 1225-EDIT-ALPHA-REQD
3453 R                THRU 1225-EDIT-ALPHA-REQD-EXIT
3454 R            MOVE WS-EDIT-ALPHA-ONLY-FLAGS
3455 R                                            TO WS-EDIT-LAST-NAME-FLGS
3456 R            MOVE 'ADDRESS LINE 1'           TO WS-EDIT-VARIABLE-NAME
3457 R            MOVE ACUP-NEW-CUST-ADDR-LINE-1 TO WS-EDIT-ALPHANUM-ONLY
3458 R            MOVE 50                          TO WS-EDIT-ALPHANUM-LENGTH
3459 R            PERFORM 1215-EDIT-MANDATORY
3460 R                THRU 1215-EDIT-MANDATORY-EXIT
3461 R            MOVE WS-EDIT-MANDATORY-FLAGS
3462 R                                            TO WS-EDIT-ADDRESS-LINE-1-FLGS
3463 R            MOVE 'STATE'                    TO WS-EDIT-VARIABLE-NAME
3464 R            MOVE ACUP-NEW-CUST-ADDR-STATE-CD TO WS-EDIT-ALPHANUM-ONLY
3465 R            MOVE 2                           TO WS-EDIT-ALPHANUM-LENGTH
3466 R            PERFORM 1225-EDIT-ALPHA-REQD
3467 R                THRU 1225-EDIT-ALPHA-REQD-EXIT
3468 R            MOVE WS-EDIT-ALPHA-ONLY-FLAGS
3469 R                                            TO WS-EDIT-STATE-FLGS
3470 R            IF FLG-ALPHA-ISVALID
3471 R            PERFORM 1270-EDIT-US-STATE-CD
3472 R                THRU 1270-EDIT-US-STATE-CD-EXIT
3473 R            END-IF
3474 R            MOVE 'ZIP'                      TO WS-EDIT-VARIABLE-NAME
3475 R            MOVE ACUP-NEW-CUST-ADDR-ZIP    TO WS-EDIT-ALPHANUM-ONLY
3476 R            MOVE 5                           TO WS-EDIT-ALPHANUM-LENGTH
3477 R            PERFORM 1245-EDIT-NUM-REQD
3478 R                THRU 1245-EDIT-NUM-REQD-EXIT
3479 R            MOVE WS-EDIT-ALPHANUM-ONLY-FLAGS
3480 R                                            TO WS-EDIT-ZIPCODE-FLGS
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3481 R              MOVE 'CITY'                       TO WS-EDIT-VARIABLE-NAME
3482 R              MOVE ACUP-NEW-CUST-ADDR-LINE-3 TO WS-EDIT-ALPHANUM-ONLY
3483 R              MOVE 50                           TO WS-EDIT-ALPHANUM-LENGTH
3484 R              PERFORM 1225-EDIT-ALPHA-REQD
3485 R                  THRU 1225-EDIT-ALPHA-REQD-EXIT
3486 R              MOVE WS-EDIT-ALPHA-ONLY-FLAGS
3487 R                                                TO WS-EDIT-CITY-FLGS
3488 R              MOVE 'COUNTRY'                    TO WS-EDIT-VARIABLE-NAME
3489 R              MOVE ACUP-NEW-CUST-ADDR-COUNTRY-CD
3490 R                                                TO WS-EDIT-ALPHANUM-ONLY
3491 R              MOVE 3                            TO WS-EDIT-ALPHANUM-LENGTH
3492 R              PERFORM 1225-EDIT-ALPHA-REQD
3493 R                  THRU 1225-EDIT-ALPHA-REQD-EXIT
3494 R              MOVE WS-EDIT-ALPHA-ONLY-FLAGS
3495 R                                                TO WS-EDIT-COUNTRY-FLGS
3496 R              MOVE 'PHONE NUMBER 1'             TO WS-EDIT-VARIABLE-NAME
3497 R              MOVE ACUP-NEW-CUST-PHONE-NUM-1
3498 R                                                TO WS-EDIT-US-PHONE-NUM
3499 R              PERFORM 1260-EDIT-US-PHONE-NUM
3500 R                  THRU 1260-EDIT-US-PHONE-NUM-EXIT
3501 R              MOVE WS-EDIT-US-PHONE-NUM-FLGS
3502 R                                                TO  WS-EDIT-PHONE-NUM-1-FLGS
3503 R              MOVE 'PHONE NUMBER 2'             TO WS-EDIT-VARIABLE-NAME
3504 R              MOVE ACUP-NEW-CUST-PHONE-NUM-2
3505 R                                                TO WS-EDIT-US-PHONE-NUM
3506 R              PERFORM 1260-EDIT-US-PHONE-NUM
3507 R                  THRU 1260-EDIT-US-PHONE-NUM-EXIT
3508 R              MOVE WS-EDIT-US-PHONE-NUM-FLGS
3509 R                                                TO WS-EDIT-PHONE-NUM-2-FLGS
3510 R              MOVE 'EFT ACCOUNT ID'             TO WS-EDIT-VARIABLE-NAME
3511 R              MOVE ACUP-NEW-CUST-EFT-ACCOUNT-ID
3512 R                                                TO WS-EDIT-ALPHANUM-ONLY
3513 R              MOVE 10                           TO WS-EDIT-ALPHANUM-LENGTH
3514 R              PERFORM 1245-EDIT-NUM-REQD
3515 R                  THRU 1245-EDIT-NUM-REQD-EXIT
3516 R              MOVE WS-EDIT-ALPHANUM-ONLY-FLAGS
3517 R                                                TO WS-EFT-ACCOUNT-ID-FLGS
3518 R              MOVE 'PRIMARY CARD HOLDER'     TO WS-EDIT-VARIABLE-NAME
3519 R              MOVE ACUP-NEW-CUST-PRI-HOLDER-IND
3520 R                                                TO WS-EDIT-YES-NO
3521 R              PERFORM 1220-EDIT-YESNO
3522 R                  THRU 1220-EDIT-YESNO-EXIT
3523 R              MOVE WS-EDIT-YES-NO               TO WS-EDIT-PRI-CARDHOLDER
3524 R              IF  FLG-STATE-ISVALID
3525 R              AND FLG-ZIPCODE-ISVALID
3526 R                  PERFORM 1280-EDIT-US-STATE-ZIP-CD
3527 R                      THRU 1280-EDIT-US-STATE-ZIP-CD-EXIT
3528 R              END-IF
3529 R              IF INPUT-ERROR
3530 R                  CONTINUE
3531 R              ELSE
3532 R                  SET ACUP-CHANGES-OK-NOT-CONFIRMED TO TRUE
3533 R              END-IF
3534 R              .
3535        1200-EDIT-MAP-INPUTS-EXIT.
3536            EXIT
3537            .
3538 R       1205-COMPARE-OLD-NEW.
3539 R              SET NO-CHANGES-FOUND              TO TRUE
```

```
3540 R               IF  ACUP-NEW-ACCT-ID-X          = ACUP-OLD-ACCT-ID-X
3541 R               AND FUNCTION UPPER-CASE (
3542 R                   ACUP-NEW-ACTIVE-STATUS)     =
3543 R                   FUNCTION UPPER-CASE (
3544 R                   ACUP-OLD-ACTIVE-STATUS)
3545 R               AND ACUP-NEW-CURR-BAL           = ACUP-OLD-CURR-BAL
3546 R               AND ACUP-NEW-CREDIT-LIMIT       = ACUP-OLD-CREDIT-LIMIT
3547 R               AND ACUP-NEW-CASH-CREDIT-LIMIT  = ACUP-OLD-CASH-CREDIT-LIMIT
3548 R               AND ACUP-NEW-OPEN-DATE          = ACUP-OLD-OPEN-DATE
3549 R               AND ACUP-NEW-EXPIRAION-DATE     = ACUP-OLD-EXPIRAION-DATE
3550 R               AND ACUP-NEW-REISSUE-DATE       = ACUP-OLD-REISSUE-DATE
3551 R               AND ACUP-NEW-CURR-CYC-CREDIT    = ACUP-OLD-CURR-CYC-CREDIT
3552 R               AND ACUP-NEW-CURR-CYC-DEBIT     = ACUP-OLD-CURR-CYC-DEBIT
3553 R               AND FUNCTION UPPER-CASE (
3554 R                   FUNCTION TRIM (ACUP-NEW-GROUP-ID))=
3555 R                   FUNCTION UPPER-CASE (
3556 R                   FUNCTION TRIM (ACUP-OLD-GROUP-ID))
3557 R                   CONTINUE
3558 R               ELSE
3559 R                   SET CHANGE-HAS-OCCURRED   TO TRUE
3560 R                   GO TO 1205-COMPARE-OLD-NEW-EXIT
3561 R               END-IF
3562 R               IF  FUNCTION UPPER-CASE (
3563 R                   FUNCTION TRIM (ACUP-NEW-CUST-ID-X))=
3564 R                   FUNCTION UPPER-CASE (
3565 R                   FUNCTION TRIM (ACUP-OLD-CUST-ID-X))
3566 R               AND FUNCTION UPPER-CASE (
3567 R                   FUNCTION TRIM (ACUP-NEW-CUST-FIRST-NAME))=
3568 R                   FUNCTION UPPER-CASE (
3569 R                   FUNCTION TRIM (ACUP-OLD-CUST-FIRST-NAME))
3570 R               AND FUNCTION UPPER-CASE (
3571 R                   FUNCTION TRIM (ACUP-NEW-CUST-MIDDLE-NAME))=
3572 R                   FUNCTION UPPER-CASE (
3573 R                   FUNCTION TRIM (ACUP-OLD-CUST-MIDDLE-NAME))
3574 R               AND FUNCTION UPPER-CASE (
3575 R                   FUNCTION TRIM (ACUP-NEW-CUST-LAST-NAME))=
3576 R                   FUNCTION UPPER-CASE (
3577 R                   FUNCTION TRIM (ACUP-OLD-CUST-LAST-NAME))
3578 R               AND FUNCTION UPPER-CASE (
3579 R                   FUNCTION TRIM (ACUP-NEW-CUST-ADDR-LINE-1))=
3580 R                   FUNCTION UPPER-CASE (
3581 R                   FUNCTION TRIM (ACUP-OLD-CUST-ADDR-LINE-1))
3582 R               AND FUNCTION UPPER-CASE (
3583 R                   FUNCTION TRIM (ACUP-NEW-CUST-ADDR-LINE-2))=
3584 R                   FUNCTION UPPER-CASE (
3585 R                   FUNCTION TRIM (ACUP-OLD-CUST-ADDR-LINE-2))
3586 R               AND FUNCTION UPPER-CASE (
3587 R                   FUNCTION TRIM (ACUP-NEW-CUST-ADDR-LINE-3))=
3588 R                   FUNCTION UPPER-CASE (
3589 R                   FUNCTION TRIM (ACUP-OLD-CUST-ADDR-LINE-3))
3590 R               AND FUNCTION UPPER-CASE (
3591 R                   FUNCTION TRIM (ACUP-NEW-CUST-ADDR-STATE-CD))=
3592 R                   FUNCTION UPPER-CASE (
3593 R                   FUNCTION TRIM (ACUP-OLD-CUST-ADDR-STATE-CD))
3594 R               AND FUNCTION UPPER-CASE (
3595 R                   FUNCTION TRIM (ACUP-NEW-CUST-ADDR-COUNTRY-CD))=
3596 R                   FUNCTION UPPER-CASE (
3597 R                   FUNCTION TRIM (ACUP-OLD-CUST-ADDR-COUNTRY-CD))
3598 R               AND FUNCTION UPPER-CASE (
```

```
3599 R                   FUNCTION TRIM (ACUP-NEW-CUST-ADDR-ZIP))=
3600 R                   FUNCTION UPPER-CASE (
3601 R                   FUNCTION TRIM (ACUP-OLD-CUST-ADDR-ZIP))
3602 R              AND ACUP-NEW-CUST-PHONE-NUM-1A = ACUP-OLD-CUST-PHONE-NUM-1A
3603 R              AND ACUP-NEW-CUST-PHONE-NUM-1B = ACUP-OLD-CUST-PHONE-NUM-1B
3604 R              AND ACUP-NEW-CUST-PHONE-NUM-1C = ACUP-OLD-CUST-PHONE-NUM-1C
3605 R              AND ACUP-NEW-CUST-PHONE-NUM-2A = ACUP-OLD-CUST-PHONE-NUM-2A
3606 R              AND ACUP-NEW-CUST-PHONE-NUM-2B = ACUP-OLD-CUST-PHONE-NUM-2B
3607 R              AND ACUP-NEW-CUST-PHONE-NUM-2C = ACUP-OLD-CUST-PHONE-NUM-2C
3608 R              AND ACUP-NEW-CUST-SSN-X        = ACUP-OLD-CUST-SSN-X
3609 R              AND FUNCTION UPPER-CASE (
3610 R                   FUNCTION TRIM (ACUP-NEW-CUST-GOVT-ISSUED-ID ))=
3611 R                   FUNCTION UPPER-CASE (
3612 R                   FUNCTION TRIM (ACUP-OLD-CUST-GOVT-ISSUED-ID))
3613 R              AND ACUP-NEW-CUST-DOB-YYYY-MM-DD
3614 R                                  = ACUP-OLD-CUST-DOB-YYYY-MM-DD
3615 R              AND ACUP-NEW-CUST-EFT-ACCOUNT-ID
3616 R                                  = ACUP-OLD-CUST-EFT-ACCOUNT-ID
3617 R              AND FUNCTION UPPER-CASE (
3618 R                   FUNCTION TRIM (ACUP-NEW-CUST-PRI-HOLDER-IND))=
3619 R                   FUNCTION UPPER-CASE (
3620 R                   FUNCTION TRIM (ACUP-OLD-CUST-PRI-HOLDER-IND))
3621 R              AND ACUP-NEW-CUST-FICO-SCORE-X
3622 R                                  = ACUP-OLD-CUST-FICO-SCORE-X
3623 R              SET NO-CHANGES-DETECTED   TO TRUE
3624 R           ELSE
3625 R              SET CHANGE-HAS-OCCURRED   TO TRUE
3626 R              GO TO 1205-COMPARE-OLD-NEW-EXIT
3627 R           END-IF
3628 R           .
3629         1205-COMPARE-OLD-NEW-EXIT.
3630            EXIT
3631            .
3632         1210-EDIT-ACCOUNT.
3633            SET FLG-ACCTFILTER-NOT-OK    TO TRUE
3634            IF CC-ACCT-ID   EQUAL LOW-VALUES
3635            OR CC-ACCT-ID   EQUAL SPACES
3636               SET INPUT-ERROR           TO TRUE
3637               SET FLG-ACCTFILTER-BLANK  TO TRUE
3638               IF WS-RETURN-MSG-OFF
3639                  SET WS-PROMPT-FOR-ACCT TO TRUE
3640               END-IF
3641               MOVE ZEROES               TO CDEMO-ACCT-ID
3642                                            ACUP-NEW-ACCT-ID
3643               GO TO  1210-EDIT-ACCOUNT-EXIT
3644            END-IF
3645            MOVE CC-ACCT-ID              TO ACUP-NEW-ACCT-ID
3646            IF CC-ACCT-ID   IS NOT NUMERIC
3647            OR CC-ACCT-ID-N EQUAL ZEROS
3648               SET INPUT-ERROR TO TRUE
3649               IF WS-RETURN-MSG-OFF
3650                  STRING
3651                  DELIMITED BY SIZE
3652                  INTO WS-RETURN-MSG
3653               END-IF
3654               MOVE ZEROES               TO CDEMO-ACCT-ID
3655               GO TO 1210-EDIT-ACCOUNT-EXIT
3656            ELSE
3657               MOVE CC-ACCT-ID TO CDEMO-ACCT-ID
```

```
3658                     SET FLG-ACCTFILTER-ISVALID TO TRUE
3659                 END-IF
3660             .
3661         1210-EDIT-ACCOUNT-EXIT.
3662             EXIT
3663             .
3664         1215-EDIT-MANDATORY.
3665             SET FLG-MANDATORY-NOT-OK    TO TRUE
3666             IF WS-EDIT-ALPHANUM-ONLY(1:WS-EDIT-ALPHANUM-LENGTH)
3667                                         EQUAL LOW-VALUES
3668             OR WS-EDIT-ALPHANUM-ONLY(1:WS-EDIT-ALPHANUM-LENGTH)
3669                                         EQUAL SPACES
3670             OR FUNCTION LENGTH(FUNCTION TRIM(
3671                WS-EDIT-ALPHANUM-ONLY(1:WS-EDIT-ALPHANUM-LENGTH))) = 0
3672                 SET INPUT-ERROR         TO TRUE
3673                 SET FLG-MANDATORY-BLANK  TO TRUE
3674                 IF WS-RETURN-MSG-OFF
3675                     STRING
3676                        FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
3677                         DELIMITED BY SIZE
3678                         INTO WS-RETURN-MSG
3679                     END-STRING
3680                 END-IF
3681                 GO TO  1215-EDIT-MANDATORY-EXIT
3682             END-IF
3683             SET FLG-MANDATORY-ISVALID   TO TRUE
3684             .
3685         1215-EDIT-MANDATORY-EXIT.
3686             EXIT
3687             .
3688         1220-EDIT-YESNO.
3689             IF WS-EDIT-YES-NO              EQUAL LOW-VALUES
3690             OR WS-EDIT-YES-NO              EQUAL SPACES
3691             OR WS-EDIT-YES-NO              EQUAL ZEROS
3692                 SET INPUT-ERROR          TO TRUE
3693                 SET FLG-YES-NO-BLANK      TO TRUE
3694                 IF WS-RETURN-MSG-OFF
3695                     STRING
3696                        FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
3697                         DELIMITED BY SIZE
3698                         INTO WS-RETURN-MSG
3699                     END-STRING
3700                 END-IF
3701                 GO TO  1220-EDIT-YESNO-EXIT
3702             END-IF
3703             IF FLG-YES-NO-ISVALID
3704                 CONTINUE
3705             ELSE
3706                 SET INPUT-ERROR           TO TRUE
3707                 SET FLG-YES-NO-NOT-OK      TO TRUE
3708                 IF WS-RETURN-MSG-OFF
3709                     STRING
3710                        FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
3711                         DELIMITED BY SIZE
3712                         INTO WS-RETURN-MSG
3713                     END-STRING
3714                 END-IF
3715                 GO TO  1220-EDIT-YESNO-EXIT
3716             END-IF
```

```
3717                   .
3718          1220-EDIT-YESNO-EXIT.
3719             EXIT
3720                   .
3721          1225-EDIT-ALPHA-REQD.
3722             SET FLG-ALPHA-NOT-OK               TO TRUE
3723             IF WS-EDIT-ALPHANUM-ONLY(1:WS-EDIT-ALPHANUM-LENGTH)
3724                                            EQUAL LOW-VALUES
3725             OR WS-EDIT-ALPHANUM-ONLY(1:WS-EDIT-ALPHANUM-LENGTH)
3726                 EQUAL SPACES
3727             OR FUNCTION LENGTH(FUNCTION TRIM(
3728                WS-EDIT-ALPHANUM-ONLY(1:WS-EDIT-ALPHANUM-LENGTH))) = 0
3729                SET INPUT-ERROR                TO TRUE
3730                SET FLG-ALPHA-BLANK            TO TRUE
3731                IF WS-RETURN-MSG-OFF
3732                   STRING
3733                      FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
3734                         DELIMITED BY SIZE
3735                         INTO WS-RETURN-MSG
3736                   END-STRING
3737                END-IF
3738                GO TO  1225-EDIT-ALPHA-REQD-EXIT
3739             END-IF
3740             MOVE LIT-ALL-ALPHA-FROM-X   TO LIT-ALL-ALPHA-FROM
3741             INSPECT WS-EDIT-ALPHANUM-ONLY(1:WS-EDIT-ALPHANUM-LENGTH)
3742               CONVERTING LIT-ALL-ALPHA-FROM
3743                       TO LIT-ALPHA-SPACES-TO
3744             IF FUNCTION LENGTH(
3745                     FUNCTION TRIM(
3746                     WS-EDIT-ALPHANUM-ONLY(1:WS-EDIT-ALPHANUM-LENGTH)
3747                            )) = 0
3748                CONTINUE
3749             ELSE
3750                SET INPUT-ERROR          TO TRUE
3751                SET FLG-ALPHA-NOT-OK     TO TRUE
3752                IF WS-RETURN-MSG-OFF
3753                   STRING
3754                      FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
3755                         DELIMITED BY SIZE
3756                         INTO WS-RETURN-MSG
3757                   END-STRING
3758                END-IF
3759                GO TO  1225-EDIT-ALPHA-REQD-EXIT
3760             END-IF
3761             SET FLG-ALPHA-ISVALID       TO TRUE
3762                   .
3763          1225-EDIT-ALPHA-REQD-EXIT.
3764             EXIT
3765                   .
3766          1235-EDIT-ALPHA-OPT.
3767             SET FLG-ALPHA-NOT-OK               TO TRUE
3768             IF WS-EDIT-ALPHANUM-ONLY(1:WS-EDIT-ALPHANUM-LENGTH)
3769                                            EQUAL LOW-VALUES
3770             OR WS-EDIT-ALPHANUM-ONLY(1:WS-EDIT-ALPHANUM-LENGTH)
3771                 EQUAL SPACES
3772             OR FUNCTION LENGTH(FUNCTION TRIM(
3773                WS-EDIT-ALPHANUM-ONLY(1:WS-EDIT-ALPHANUM-LENGTH))) = 0
3774                SET FLG-ALPHA-ISVALID        TO TRUE
3775                GO TO  1235-EDIT-ALPHA-OPT-EXIT
```

```
3776                ELSE
3777                    CONTINUE
3778                END-IF
3779                MOVE LIT-ALL-ALPHA-FROM-X    TO LIT-ALL-ALPHA-FROM
3780                INSPECT WS-EDIT-ALPHANUM-ONLY(1:WS-EDIT-ALPHANUM-LENGTH)
3781                  CONVERTING LIT-ALL-ALPHA-FROM
3782                           TO LIT-ALPHA-SPACES-TO
3783                IF FUNCTION LENGTH(
3784                        FUNCTION TRIM(
3785                        WS-EDIT-ALPHANUM-ONLY(1:WS-EDIT-ALPHANUM-LENGTH)
3786                                      )) = 0
3787                    CONTINUE
3788                ELSE
3789                    SET INPUT-ERROR          TO TRUE
3790                    SET FLG-ALPHA-NOT-OK     TO TRUE
3791                    IF WS-RETURN-MSG-OFF
3792                       STRING
3793                         FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
3794                           DELIMITED BY SIZE
3795                           INTO WS-RETURN-MSG
3796                       END-STRING
3797                    END-IF
3798                    GO TO  1235-EDIT-ALPHA-OPT-EXIT
3799                END-IF
3800                SET FLG-ALPHA-ISVALID      TO TRUE
3801                .
3802         1235-EDIT-ALPHA-OPT-EXIT.
3803             EXIT
3804             .
3805         1245-EDIT-NUM-REQD.
3806             SET FLG-ALPHNANUM-NOT-OK         TO TRUE
3807             IF WS-EDIT-ALPHANUM-ONLY(1:WS-EDIT-ALPHANUM-LENGTH)
3808                                        EQUAL LOW-VALUES
3809             OR WS-EDIT-ALPHANUM-ONLY(1:WS-EDIT-ALPHANUM-LENGTH)
3810                  EQUAL SPACES
3811             OR FUNCTION LENGTH(FUNCTION TRIM(
3812                WS-EDIT-ALPHANUM-ONLY(1:WS-EDIT-ALPHANUM-LENGTH))) = 0
3813                SET INPUT-ERROR              TO TRUE
3814                SET FLG-ALPHNANUM-BLANK      TO TRUE
3815                IF WS-RETURN-MSG-OFF
3816                   STRING
3817                     FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
3818                       DELIMITED BY SIZE
3819                       INTO WS-RETURN-MSG
3820                   END-STRING
3821                END-IF
3822                GO TO  1245-EDIT-NUM-REQD-EXIT
3823             END-IF
3824             IF WS-EDIT-ALPHANUM-ONLY(1:WS-EDIT-ALPHANUM-LENGTH)
3825                  IS NUMERIC
3826                CONTINUE
3827             ELSE
3828                SET INPUT-ERROR          TO TRUE
3829                SET FLG-ALPHNANUM-NOT-OK  TO TRUE
3830                IF WS-RETURN-MSG-OFF
3831                   STRING
3832                     FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
3833                       DELIMITED BY SIZE
3834                       INTO WS-RETURN-MSG
```

```
3835                   END-STRING
3836               END-IF
3837               GO TO  1245-EDIT-NUM-REQD-EXIT
3838           END-IF
3839           IF FUNCTION NUMVAL(WS-EDIT-ALPHANUM-ONLY(1:
3840                              WS-EDIT-ALPHANUM-LENGTH)) = 0
3841               SET INPUT-ERROR            TO TRUE
3842               SET FLG-ALPHNANUM-NOT-OK   TO TRUE
3843               IF WS-RETURN-MSG-OFF
3844                   STRING
3845                       FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
3846                       DELIMITED BY SIZE
3847                       INTO WS-RETURN-MSG
3848                   END-STRING
3849               END-IF
3850               GO TO  1245-EDIT-NUM-REQD-EXIT
3851           ELSE
3852               CONTINUE
3853           END-IF
3854           SET FLG-ALPHNANUM-ISVALID    TO TRUE
3855           .
3856       1245-EDIT-NUM-REQD-EXIT.
3857           EXIT
3858           .
3859       1250-EDIT-SIGNED-9V2.
3860           SET FLG-SIGNED-NUMBER-NOT-OK    TO TRUE
3861           IF WS-EDIT-SIGNED-NUMBER-9V2-X  EQUAL LOW-VALUES
3862           OR WS-EDIT-SIGNED-NUMBER-9V2-X  EQUAL SPACES
3863               SET INPUT-ERROR            TO TRUE
3864               SET FLG-SIGNED-NUMBER-BLANK  TO TRUE
3865               IF WS-RETURN-MSG-OFF
3866                   STRING
3867                       FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
3868                       DELIMITED BY SIZE
3869                       INTO WS-RETURN-MSG
3870                   END-STRING
3871               END-IF
3872               GO TO  1250-EDIT-SIGNED-9V2-EXIT
3873           ELSE
3874               CONTINUE
3875           END-IF
3876           IF FUNCTION TEST-NUMVAL-C(WS-EDIT-SIGNED-NUMBER-9V2-X) = 0
3877               CONTINUE
3878           ELSE
3879               SET INPUT-ERROR            TO TRUE
3880               SET FLG-SIGNED-NUMBER-NOT-OK   TO TRUE
3881               IF WS-RETURN-MSG-OFF
3882                   STRING
3883                       FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
3884                       DELIMITED BY SIZE
3885                       INTO WS-RETURN-MSG
3886               END-IF
3887               GO TO  1250-EDIT-SIGNED-9V2-EXIT
3888           END-IF
3889           SET FLG-SIGNED-NUMBER-ISVALID  TO TRUE
3890           .
3891       1250-EDIT-SIGNED-9V2-EXIT.
3892           EXIT
3893           .
```

```
3894          1260-EDIT-US-PHONE-NUM.
3895              SET WS-EDIT-US-PHONE-IS-INVALID TO TRUE
3896              IF  (WS-EDIT-US-PHONE-NUMA EQUAL SPACES
3897              OR   WS-EDIT-US-PHONE-NUMA EQUAL LOW-VALUES)
3898              AND (WS-EDIT-US-PHONE-NUMB EQUAL SPACES
3899              OR   WS-EDIT-US-PHONE-NUMB EQUAL LOW-VALUES)
3900              AND (WS-EDIT-US-PHONE-NUMA EQUAL SPACES
3901              OR   WS-EDIT-US-PHONE-NUMC EQUAL LOW-VALUES)
3902                  SET WS-EDIT-US-PHONE-IS-VALID TO TRUE
3903                  GO TO EDIT-US-PHONE-EXIT
3904              ELSE
3905                  CONTINUE
3906              END-IF
3907              .
3908 R        EDIT-AREA-CODE.
3909 R            IF WS-EDIT-US-PHONE-NUMA EQUAL SPACES
3910 R            OR WS-EDIT-US-PHONE-NUMA EQUAL LOW-VALUES
3911 R                SET INPUT-ERROR              TO TRUE
3912 R                SET FLG-EDIT-US-PHONEA-BLANK    TO TRUE
3913 R                IF WS-RETURN-MSG-OFF
3914 R                    STRING
3915 R                       FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
3916 R                        DELIMITED BY SIZE
3917 R                        INTO WS-RETURN-MSG
3918 R                    END-STRING
3919 R                END-IF
3920 R                GO TO  EDIT-US-PHONE-PREFIX
3921 R            ELSE
3922 R                CONTINUE
3923 R            END-IF
3924 R            IF  WS-EDIT-US-PHONE-NUMA       IS NUMERIC
3925 R                CONTINUE
3926 R            ELSE
3927 R                SET INPUT-ERROR                 TO TRUE
3928 R                SET  FLG-EDIT-US-PHONEA-NOT-OK  TO TRUE
3929 R                IF WS-RETURN-MSG-OFF
3930 R                    STRING
3931 R                       FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
3932 R                        DELIMITED BY SIZE
3933 R                        INTO WS-RETURN-MSG
3934 R                    END-STRING
3935 R                END-IF
3936 R                GO TO  EDIT-US-PHONE-PREFIX
3937 R            END-IF
3938 R            IF  WS-EDIT-US-PHONE-NUMA-N = 0
3939 R                SET INPUT-ERROR             TO TRUE
3940 R                SET  FLG-EDIT-US-PHONEA-NOT-OK  TO TRUE
3941 R                IF WS-RETURN-MSG-OFF
3942 R                    STRING
3943 R                       FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
3944 R                        DELIMITED BY SIZE
3945 R                        INTO WS-RETURN-MSG
3946 R                    END-STRING
3947 R                END-IF
3948 R                GO TO  EDIT-US-PHONE-PREFIX
3949 R            ELSE
3950 R                CONTINUE
3951 R            END-IF
3952 R            MOVE FUNCTION TRIM (WS-EDIT-US-PHONE-NUMA)
```

```
3953 R              TO WS-US-PHONE-AREA-CODE-TO-EDIT
3954 R          IF VALID-GENERAL-PURP-CODE
3955 R             CONTINUE
3956 R          ELSE
3957 R             SET INPUT-ERROR                TO TRUE
3958 R             SET  FLG-EDIT-US-PHONEA-NOT-OK  TO TRUE
3959 R             IF WS-RETURN-MSG-OFF
3960 R                STRING
3961 R                   FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
3962 R                   DELIMITED BY SIZE
3963 R                   INTO WS-RETURN-MSG
3964 R                END-STRING
3965 R             END-IF
3966 R             GO TO  EDIT-US-PHONE-PREFIX
3967 R          END-IF
3968 R          SET FLG-EDIT-US-PHONEA-ISVALID    TO TRUE
3969 R          .
3970       EDIT-US-PHONE-PREFIX.
3971           IF WS-EDIT-US-PHONE-NUMB EQUAL SPACES
3972           OR WS-EDIT-US-PHONE-NUMB EQUAL LOW-VALUES
3973              SET INPUT-ERROR                TO TRUE
3974              SET FLG-EDIT-US-PHONEB-BLANK    TO TRUE
3975              IF WS-RETURN-MSG-OFF
3976                 STRING
3977                    FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
3978                    DELIMITED BY SIZE
3979                    INTO WS-RETURN-MSG
3980                 END-STRING
3981              END-IF
3982              GO TO  EDIT-US-PHONE-LINENUM
3983           ELSE
3984              CONTINUE
3985           END-IF
3986           IF  WS-EDIT-US-PHONE-NUMB        IS NUMERIC
3987              CONTINUE
3988           ELSE
3989              SET INPUT-ERROR                TO TRUE
3990              SET  FLG-EDIT-US-PHONEB-NOT-OK  TO TRUE
3991              IF WS-RETURN-MSG-OFF
3992                 STRING
3993                    FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
3994                    DELIMITED BY SIZE
3995                    INTO WS-RETURN-MSG
3996                 END-STRING
3997              END-IF
3998              GO TO  EDIT-US-PHONE-LINENUM
3999           END-IF
4000           IF  WS-EDIT-US-PHONE-NUMB-N = 0
4001              SET INPUT-ERROR                TO TRUE
4002              SET  FLG-EDIT-US-PHONEB-NOT-OK  TO TRUE
4003              IF WS-RETURN-MSG-OFF
4004                 STRING
4005                    FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
4006                    DELIMITED BY SIZE
4007                    INTO WS-RETURN-MSG
4008                 END-STRING
4009              END-IF
4010              GO TO  EDIT-US-PHONE-LINENUM
4011           ELSE
```

```
4012                    CONTINUE
4013                END-IF
4014                SET FLG-EDIT-US-PHONEB-ISVALID    TO TRUE
4015                .
4016            EDIT-US-PHONE-LINENUM.
4017                IF WS-EDIT-US-PHONE-NUMC EQUAL SPACES
4018                OR WS-EDIT-US-PHONE-NUMC EQUAL LOW-VALUES
4019                    SET INPUT-ERROR                 TO TRUE
4020                    SET FLG-EDIT-US-PHONEC-BLANK    TO TRUE
4021                    IF WS-RETURN-MSG-OFF
4022                       STRING
4023                          FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
4024                            DELIMITED BY SIZE
4025                            INTO WS-RETURN-MSG
4026                       END-STRING
4027                    END-IF
4028                    GO TO EDIT-US-PHONE-EXIT
4029                ELSE
4030                    CONTINUE
4031                END-IF
4032                IF  WS-EDIT-US-PHONE-NUMC          IS NUMERIC
4033                    CONTINUE
4034                ELSE
4035                    SET INPUT-ERROR                 TO TRUE
4036                    SET  FLG-EDIT-US-PHONEC-NOT-OK  TO TRUE
4037                    IF WS-RETURN-MSG-OFF
4038                       STRING
4039                          FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
4040                            DELIMITED BY SIZE
4041                            INTO WS-RETURN-MSG
4042                       END-STRING
4043                    END-IF
4044                    GO TO  EDIT-US-PHONE-EXIT
4045                END-IF
4046                IF  WS-EDIT-US-PHONE-NUMC-N = 0
4047                    SET INPUT-ERROR                 TO TRUE
4048                    SET  FLG-EDIT-US-PHONEC-NOT-OK  TO TRUE
4049                    IF WS-RETURN-MSG-OFF
4050                       STRING
4051                          FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
4052                            DELIMITED BY SIZE
4053                            INTO WS-RETURN-MSG
4054                       END-STRING
4055                    END-IF
4056                    GO TO  EDIT-US-PHONE-EXIT
4057                ELSE
4058                     CONTINUE
4059                END-IF
4060                SET FLG-EDIT-US-PHONEC-ISVALID    TO TRUE
4061                .
4062            EDIT-US-PHONE-EXIT.
4063                EXIT
4064                .
4065            1260-EDIT-US-PHONE-NUM-EXIT.
4066                EXIT
4067                .
4068            1265-EDIT-US-SSN.
4069                MOVE 'SSN: FIRST 3 CHARS'     TO WS-EDIT-VARIABLE-NAME
4070                MOVE ACUP-NEW-CUST-SSN-1      TO WS-EDIT-ALPHANUM-ONLY
```

```
4071                MOVE 3                          TO WS-EDIT-ALPHANUM-LENGTH
4072                PERFORM 1245-EDIT-NUM-REQD
4073                   THRU 1245-EDIT-NUM-REQD-EXIT
4074                MOVE WS-EDIT-ALPHANUM-ONLY-FLAGS
4075                                                TO WS-EDIT-US-SSN-PART1-FLGS
4076                IF FLG-EDIT-US-SSN-PART1-ISVALID
4077                   MOVE ACUP-NEW-CUST-SSN-1    TO WS-EDIT-US-SSN-PART1
4078                   IF INVALID-SSN-PART1
4079                   SET INPUT-ERROR             TO TRUE
4080                   SET FLG-EDIT-US-SSN-PART1-NOT-OK
4081                                        TO TRUE
4082                   IF WS-RETURN-MSG-OFF
4083                      STRING
4084                        FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
4085                         DELIMITED BY SIZE
4086                         INTO WS-RETURN-MSG
4087                      END-STRING
4088                   ELSE
4089                      CONTINUE
4090                   END-IF
4091                END-IF
4092                MOVE 'SSN 4TH & 5TH CHARS'    TO WS-EDIT-VARIABLE-NAME
4093                MOVE ACUP-NEW-CUST-SSN-2      TO WS-EDIT-ALPHANUM-ONLY
4094                MOVE 2                          TO WS-EDIT-ALPHANUM-LENGTH
4095                PERFORM 1245-EDIT-NUM-REQD
4096                   THRU 1245-EDIT-NUM-REQD-EXIT
4097                MOVE WS-EDIT-ALPHANUM-ONLY-FLAGS
4098                                                TO WS-EDIT-US-SSN-PART2-FLGS
4099                MOVE 'SSN LAST 4 CHARS'       TO WS-EDIT-VARIABLE-NAME
4100                MOVE ACUP-NEW-CUST-SSN-3      TO WS-EDIT-ALPHANUM-ONLY
4101                MOVE 4                          TO WS-EDIT-ALPHANUM-LENGTH
4102                PERFORM 1245-EDIT-NUM-REQD
4103                   THRU 1245-EDIT-NUM-REQD-EXIT
4104                MOVE WS-EDIT-ALPHANUM-ONLY-FLAGS
4105                                                TO WS-EDIT-US-SSN-PART3-FLGS
4106                .
4107            1265-EDIT-US-SSN-EXIT.
4108                EXIT
4109                .
4110            1270-EDIT-US-STATE-CD.
4111                MOVE ACUP-NEW-CUST-ADDR-STATE-CD TO US-STATE-CODE-TO-EDIT
4112                IF VALID-US-STATE-CODE
4113                    CONTINUE
4114                ELSE
4115                   SET INPUT-ERROR              TO TRUE
4116                   SET FLG-STATE-NOT-OK        TO TRUE
4117                   IF WS-RETURN-MSG-OFF
4118                      STRING
4119                        FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
4120                         DELIMITED BY SIZE
4121                         INTO WS-RETURN-MSG
4122                      END-STRING
4123                   END-IF
4124                   GO TO  1270-EDIT-US-STATE-CD-EXIT
4125                END-IF
4126                .
4127            1270-EDIT-US-STATE-CD-EXIT.
4128                EXIT
4129                .
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4130          1275-EDIT-FICO-SCORE.
4131              IF FICO-RANGE-IS-VALID
4132                 CONTINUE
4133              ELSE
4134                 SET INPUT-ERROR              TO TRUE
4135                 SET FLG-FICO-SCORE-NOT-OK    TO TRUE
4136                 IF WS-RETURN-MSG-OFF
4137                    STRING
4138                       FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
4139                       DELIMITED BY SIZE
4140                       INTO WS-RETURN-MSG
4141                    END-STRING
4142                 END-IF
4143                 GO TO  1275-EDIT-FICO-SCORE-EXIT
4144              END-IF
4145              .
4146          1275-EDIT-FICO-SCORE-EXIT.
4147              EXIT
4148              .
4149          1280-EDIT-US-STATE-ZIP-CD.
4150              STRING ACUP-NEW-CUST-ADDR-STATE-CD
4151                     ACUP-NEW-CUST-ADDR-ZIP(1:2)
4152                DELIMITED BY SIZE
4153                INTO US-STATE-AND-FIRST-ZIP2
4154              IF VALID-US-STATE-ZIP-CD2-COMBO
4155                 CONTINUE
4156              ELSE
4157                 SET INPUT-ERROR              TO TRUE
4158                 SET FLG-STATE-NOT-OK         TO TRUE
4159                 SET FLG-ZIPCODE-NOT-OK       TO TRUE
4160                 IF WS-RETURN-MSG-OFF
4161                    STRING
4162                       DELIMITED BY SIZE
4163                       INTO WS-RETURN-MSG
4164                    END-STRING
4165                 END-IF
4166                 GO TO  1280-EDIT-US-STATE-ZIP-CD-EXIT
4167              END-IF
4168              .
4169          1280-EDIT-US-STATE-ZIP-CD-EXIT.
4170              EXIT
4171              .
4172 R       2000-DECIDE-ACTION.
4173 R           EVALUATE TRUE
4174 R              WHEN ACUP-DETAILS-NOT-FETCHED
4175 R              WHEN CCARD-AID-PFK12
4176 R                 IF  FLG-ACCTFILTER-ISVALID
4177 R                     SET WS-RETURN-MSG-OFF       TO TRUE
4178 R                     PERFORM 9000-READ-ACCT
4179 R                         THRU 9000-READ-ACCT-EXIT
4180 R                     IF FOUND-CUST-IN-MASTER
4181 R                        SET ACUP-SHOW-DETAILS    TO TRUE
4182 R                     END-IF
4183 R                 END-IF
4184 R              WHEN ACUP-SHOW-DETAILS
4185 R                 IF INPUT-ERROR
4186 R                 OR NO-CHANGES-DETECTED
4187 R                    CONTINUE
4188 R                 ELSE
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4189 R                    SET ACUP-CHANGES-OK-NOT-CONFIRMED TO TRUE
4190 R                  END-IF
4191 R               WHEN ACUP-CHANGES-NOT-OK
4192 R                  CONTINUE
4193 R               WHEN ACUP-CHANGES-OK-NOT-CONFIRMED
4194 R                AND CCARD-AID-PFK05
4195 R                  PERFORM 9600-WRITE-PROCESSING
4196 R                    THRU 9600-WRITE-PROCESSING-EXIT
4197 R                  EVALUATE TRUE
4198 R                     WHEN COULD-NOT-LOCK-ACCT-FOR-UPDATE
4199 R                        SET ACUP-CHANGES-OKAYED-LOCK-ERROR TO TRUE
4200 R                     WHEN LOCKED-BUT-UPDATE-FAILED
4201 R                        SET ACUP-CHANGES-OKAYED-BUT-FAILED TO TRUE
4202 R                     WHEN DATA-WAS-CHANGED-BEFORE-UPDATE
4203 R                        SET ACUP-SHOW-DETAILS          TO TRUE
4204 R                     WHEN OTHER
4205 R                        SET ACUP-CHANGES-OKAYED-AND-DONE   TO TRUE
4206 R                  END-EVALUATE
4207 R               WHEN ACUP-CHANGES-OK-NOT-CONFIRMED
4208 R                  CONTINUE
4209 R               WHEN ACUP-CHANGES-OKAYED-AND-DONE
4210 R                  SET ACUP-SHOW-DETAILS TO TRUE
4211 R                  IF CDEMO-FROM-TRANID    EQUAL LOW-VALUES
4212 R                  OR CDEMO-FROM-TRANID    EQUAL SPACES
4213 R                     MOVE ZEROES        TO CDEMO-ACCT-ID
4214 R                                           CDEMO-CARD-NUM
4215 R                     MOVE LOW-VALUES   TO CDEMO-ACCT-STATUS
4216 R                  END-IF
4217 R               WHEN OTHER
4218 R                  MOVE LIT-THISPGM    TO ABEND-CULPRIT
4219 R                  MOVE '0001'         TO ABEND-CODE
4220 R                  MOVE SPACES         TO ABEND-REASON
4221 R                  MOVE 'UNEXPECTED DATA SCENARIO'
4222 R                                      TO ABEND-MSG
4223 R                  PERFORM ABEND-ROUTINE
4224 R                    THRU ABEND-ROUTINE-EXIT
4225 R           END-EVALUATE
4226 R           .
4227     2000-DECIDE-ACTION-EXIT.
4228         EXIT
4229         .
4230     3000-SEND-MAP.
4231         PERFORM 3100-SCREEN-INIT
4232            THRU 3100-SCREEN-INIT-EXIT
4233         PERFORM 3200-SETUP-SCREEN-VARS
4234            THRU 3200-SETUP-SCREEN-VARS-EXIT
4235         PERFORM 3250-SETUP-INFOMSG
4236            THRU 3250-SETUP-INFOMSG-EXIT
4237         PERFORM 3300-SETUP-SCREEN-ATTRS
4238            THRU 3300-SETUP-SCREEN-ATTRS-EXIT
4239         PERFORM 3390-SETUP-INFOMSG-ATTRS
4240            THRU 3390-SETUP-INFOMSG-ATTRS-EXIT
4241         PERFORM 3400-SEND-SCREEN
4242            THRU 3400-SEND-SCREEN-EXIT
4243         .
4244     3000-SEND-MAP-EXIT.
4245         EXIT
4246         .
4247     3100-SCREEN-INIT.
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4248                MOVE LOW-VALUES TO CACTUPAO
4249                MOVE FUNCTION CURRENT-DATE    TO WS-CURDATE-DATA
4250                MOVE CCDA-TITLE01             TO TITLE01O OF CACTUPAO
4251                MOVE CCDA-TITLE02             TO TITLE02O OF CACTUPAO
4252                MOVE LIT-THISTRANID           TO TRNNAMEO OF CACTUPAO
4253                MOVE LIT-THISPGM              TO PGMNAMEO OF CACTUPAO
4254                MOVE FUNCTION CURRENT-DATE    TO WS-CURDATE-DATA
4255                MOVE WS-CURDATE-MONTH         TO WS-CURDATE-MM
4256                MOVE WS-CURDATE-DAY           TO WS-CURDATE-DD
4257                MOVE WS-CURDATE-YEAR(3:2)     TO WS-CURDATE-YY
4258                MOVE WS-CURDATE-MM-DD-YY      TO CURDATEO OF CACTUPAO
4259                MOVE WS-CURTIME-HOURS         TO WS-CURTIME-HH
4260                MOVE WS-CURTIME-MINUTE        TO WS-CURTIME-MM
4261                MOVE WS-CURTIME-SECOND        TO WS-CURTIME-SS
4262                MOVE WS-CURTIME-HH-MM-SS      TO CURTIMEO OF CACTUPAO
4263                .
4264         3100-SCREEN-INIT-EXIT.
4265             EXIT
4266                .
4267         3200-SETUP-SCREEN-VARS.
4268             IF CDEMO-PGM-ENTER
4269                CONTINUE
4270             ELSE
4271                IF CC-ACCT-ID-N = 0
4272                AND FLG-ACCTFILTER-ISVALID
4273                   MOVE LOW-VALUES                TO ACCTSIDO OF CACTUPAO
4274                ELSE
4275                   MOVE CC-ACCT-ID               TO ACCTSIDO OF CACTUPAO
4276                END-IF
4277                EVALUATE TRUE
4278                  WHEN ACUP-DETAILS-NOT-FETCHED
4279                  WHEN CC-ACCT-ID-N =   0
4280                     PERFORM 3201-SHOW-INITIAL-VALUES
4281                        THRU 3201-SHOW-INITIAL-VALUES-EXIT
4282                 WHEN ACUP-SHOW-DETAILS
4283                     PERFORM 3202-SHOW-ORIGINAL-VALUES
4284                        THRU 3202-SHOW-ORIGINAL-VALUES-EXIT
4285                 WHEN ACUP-CHANGES-MADE
4286                     PERFORM 3203-SHOW-UPDATED-VALUES
4287                        THRU 3203-SHOW-UPDATED-VALUES-EXIT
4288                 WHEN OTHER
4289                     PERFORM 3202-SHOW-ORIGINAL-VALUES
4290                        THRU 3202-SHOW-ORIGINAL-VALUES-EXIT
4291                END-EVALUATE
4292              END-IF
4293                .
4294         3200-SETUP-SCREEN-VARS-EXIT.
4295             EXIT
4296                .
4297 R       3201-SHOW-INITIAL-VALUES.
4298 R           MOVE LOW-VALUES                       TO   ACSTTUSO OF CACTUPAO
4299 R                                                      ACRDLIMO OF CACTUPAO
4300 R                                                      ACURBALO OF CACTUPAO
4301 R                                                      ACSHLIMO OF CACTUPAO
4302 R                                                      ACRCYCRO OF CACTUPAO
4303 R                                                      ACRCYDBO OF CACTUPAO
4304 R                                                      OPNYEARO OF CACTUPAO
4305 R                                                      OPNMONO  OF CACTUPAO
4306 R                                                      OPNDAYO  OF CACTUPAO
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4307 R                                              EXPYEARO OF CACTUPAO
4308 R                                              EXPMONO  OF CACTUPAO
4309 R                                              EXPDAYO  OF CACTUPAO
4310 R                                              RISYEARO OF CACTUPAO
4311 R                                              RISMONO  OF CACTUPAO
4312 R                                              RISDAYO  OF CACTUPAO
4313 R                                              AADDGRPO OF CACTUPAO
4314 R                                              ACSTNUMO OF CACTUPAO
4315 R                                              ACTSSN1O OF CACTUPAO
4316 R                                              ACTSSN2O OF CACTUPAO
4317 R                                              ACTSSN3O OF CACTUPAO
4318 R                                              ACSTFCOO OF CACTUPAO
4319 R                                              DOBYEARO OF CACTUPAO
4320 R                                              DOBMONO  OF CACTUPAO
4321 R                                              DOBDAYO  OF CACTUPAO
4322 R                                              ACSFNAMO OF CACTUPAO
4323 R                                              ACSMNAMO OF CACTUPAO
4324 R                                              ACSLNAMO OF CACTUPAO
4325 R                                              ACSADL1O OF CACTUPAO
4326 R                                              ACSADL2O OF CACTUPAO
4327 R                                              ACSCITYO OF CACTUPAO
4328 R                                              ACSSTTEO OF CACTUPAO
4329 R                                              ACSZIPCO OF CACTUPAO
4330 R                                              ACSCTRYO OF CACTUPAO
4331 R                                              ACSPH1AO OF CACTUPAO
4332 R                                              ACSPH1BO OF CACTUPAO
4333 R                                              ACSPH1CO OF CACTUPAO
4334 R                                              ACSPH2AO OF CACTUPAO
4335 R                                              ACSPH2BO OF CACTUPAO
4336 R                                              ACSPH2CO OF CACTUPAO
4337 R                                              ACSGOVTO OF CACTUPAO
4338 R                                              ACSEFTCO OF CACTUPAO
4339 R                                              ACSPFLGO OF CACTUPAO
4340 R            .
4341         3201-SHOW-INITIAL-VALUES-EXIT.
4342             EXIT
4343             .
4344 R       3202-SHOW-ORIGINAL-VALUES.
4345 R           MOVE LOW-VALUES                     TO WS-NON-KEY-FLAGS
4346 R           SET PROMPT-FOR-CHANGES             TO TRUE
4347 R           IF FOUND-ACCT-IN-MASTER
4348 R           OR FOUND-CUST-IN-MASTER
4349 R               MOVE ACUP-OLD-ACTIVE-STATUS     TO ACSTTUSO OF CACTUPAO
4350 R               MOVE ACUP-OLD-CURR-BAL-N        TO WS-EDIT-CURRENCY-9-2-F
4351 R               MOVE WS-EDIT-CURRENCY-9-2-F     TO ACURBALO OF CACTUPAO
4352 R               MOVE ACUP-OLD-CREDIT-LIMIT-N    TO WS-EDIT-CURRENCY-9-2-F
4353 R               MOVE WS-EDIT-CURRENCY-9-2-F     TO ACRDLIMO OF CACTUPAO
4354 R               MOVE ACUP-OLD-CASH-CREDIT-LIMIT-N
4355 R                                              TO WS-EDIT-CURRENCY-9-2-F
4356 R               MOVE WS-EDIT-CURRENCY-9-2-F     TO ACSHLIMO OF CACTUPAO
4357 R               MOVE ACUP-OLD-CURR-CYC-CREDIT-N TO WS-EDIT-CURRENCY-9-2-F
4358 R               MOVE WS-EDIT-CURRENCY-9-2-F     TO ACRCYCRO OF CACTUPAO
4359 R               MOVE ACUP-OLD-CURR-CYC-DEBIT-N  TO WS-EDIT-CURRENCY-9-2-F
4360 R               MOVE WS-EDIT-CURRENCY-9-2-F     TO ACRCYDBO OF CACTUPAO
4361 R               MOVE ACUP-OLD-OPEN-YEAR         TO OPNYEARO OF CACTUPAO
4362 R               MOVE ACUP-OLD-OPEN-MON          TO OPNMONO  OF CACTUPAO
4363 R               MOVE ACUP-OLD-OPEN-DAY          TO OPNDAYO  OF CACTUPAO
4364 R               MOVE ACUP-OLD-EXP-YEAR          TO EXPYEARO OF CACTUPAO
4365 R               MOVE ACUP-OLD-EXP-MON           TO EXPMONO  OF CACTUPAO
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4366 R                     MOVE ACUP-OLD-EXP-DAY                TO EXPDAYO  OF CACTUPAO
4367 R                     MOVE ACUP-OLD-REISSUE-YEAR           TO RISYEARO OF CACTUPAO
4368 R                     MOVE ACUP-OLD-REISSUE-MON            TO RISMONO  OF CACTUPAO
4369 R                     MOVE ACUP-OLD-REISSUE-DAY            TO RISDAYO  OF CACTUPAO
4370 R                     MOVE ACUP-OLD-GROUP-ID               TO AADDGRPO OF CACTUPAO
4371 R               END-IF
4372 R               IF FOUND-CUST-IN-MASTER
4373 R                     MOVE ACUP-OLD-CUST-ID-X              TO ACSTNUMO OF CACTUPAO
4374 R                     MOVE ACUP-OLD-CUST-SSN-X(1:3)        TO ACTSSN1O OF CACTUPAO
4375 R                     MOVE ACUP-OLD-CUST-SSN-X(4:2)        TO ACTSSN2O OF CACTUPAO
4376 R                     MOVE ACUP-OLD-CUST-SSN-X(6:4)        TO ACTSSN3O OF CACTUPAO
4377 R                     MOVE ACUP-OLD-CUST-FICO-SCORE-X      TO ACSTFCOO OF CACTUPAO
4378 R                     MOVE ACUP-OLD-CUST-DOB-YEAR          TO DOBYEARO OF CACTUPAO
4379 R                     MOVE ACUP-OLD-CUST-DOB-MON           TO DOBMONO  OF CACTUPAO
4380 R                     MOVE ACUP-OLD-CUST-DOB-DAY           TO DOBDAYO  OF CACTUPAO
4381 R                     MOVE ACUP-OLD-CUST-FIRST-NAME        TO ACSFNAMO OF CACTUPAO
4382 R                     MOVE ACUP-OLD-CUST-MIDDLE-NAME       TO ACSMNAMO OF CACTUPAO
4383 R                     MOVE ACUP-OLD-CUST-LAST-NAME         TO ACSLNAMO OF CACTUPAO
4384 R                     MOVE ACUP-OLD-CUST-ADDR-LINE-1       TO ACSADL1O OF CACTUPAO
4385 R                     MOVE ACUP-OLD-CUST-ADDR-LINE-2       TO ACSADL2O OF CACTUPAO
4386 R                     MOVE ACUP-OLD-CUST-ADDR-LINE-3       TO ACSCITYO OF CACTUPAO
4387 R                     MOVE ACUP-OLD-CUST-ADDR-STATE-CD     TO ACSSTTEO OF CACTUPAO
4388 R                     MOVE ACUP-OLD-CUST-ADDR-ZIP          TO ACSZIPCO OF CACTUPAO
4389 R                     MOVE ACUP-OLD-CUST-ADDR-COUNTRY-CD
4390 R                                                         TO ACSCTRYO OF CACTUPAO
4391 R                     MOVE ACUP-OLD-CUST-PHONE-NUM-1(2:3)
4392 R                                                         TO ACSPH1AO OF CACTUPAO
4393 R                     MOVE ACUP-OLD-CUST-PHONE-NUM-1(6:3)
4394 R                                                         TO ACSPH1BO OF CACTUPAO
4395 R                     MOVE ACUP-OLD-CUST-PHONE-NUM-1(10:4)
4396 R                                                         TO ACSPH1CO OF CACTUPAO
4397 R                     MOVE ACUP-OLD-CUST-PHONE-NUM-2(2:3)
4398 R                                                         TO ACSPH2AO OF CACTUPAO
4399 R                     MOVE ACUP-OLD-CUST-PHONE-NUM-2(6:3)
4400 R                                                         TO ACSPH2BO OF CACTUPAO
4401 R                     MOVE ACUP-OLD-CUST-PHONE-NUM-2(10:4)
4402 R                                                         TO ACSPH2CO OF CACTUPAO
4403 R                     MOVE ACUP-OLD-CUST-GOVT-ISSUED-ID
4404 R                                                         TO ACSGOVTO OF CACTUPAO
4405 R                     MOVE ACUP-OLD-CUST-EFT-ACCOUNT-ID
4406 R                                                         TO ACSEFTCO OF CACTUPAO
4407 R                     MOVE ACUP-OLD-CUST-PRI-HOLDER-IND
4408 R                                                         TO ACSPFLGO OF CACTUPAO
4409 R               END-IF
4410 R               .
4411         3202-SHOW-ORIGINAL-VALUES-EXIT.
4412             EXIT
4413             .
4414 R         3203-SHOW-UPDATED-VALUES.
4415 R               MOVE ACUP-NEW-ACTIVE-STATUS          TO ACSTTUSO OF CACTUPAO
4416 R               IF FLG-CRED-LIMIT-ISVALID
4417 R                     MOVE ACUP-NEW-CREDIT-LIMIT-N    TO WS-EDIT-CURRENCY-9-2-F
4418 R                     MOVE WS-EDIT-CURRENCY-9-2-F     TO ACRDLIMO OF CACTUPAO
4419 R               ELSE
4420 R                     MOVE ACUP-NEW-CREDIT-LIMIT-X    TO ACRDLIMO OF CACTUPAO
4421 R               END-IF
4422 R               IF FLG-CASH-CREDIT-LIMIT-ISVALID
4423 R                     MOVE ACUP-NEW-CASH-CREDIT-LIMIT-N
4424 R                                                    TO WS-EDIT-CURRENCY-9-2-F
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4425 R                 MOVE WS-EDIT-CURRENCY-9-2-F        TO ACSHLIMO OF CACTUPAO
4426 R            ELSE
4427 R               MOVE ACUP-NEW-CASH-CREDIT-LIMIT-X
4428 R                                                   TO ACSHLIMO OF CACTUPAO
4429 R            END-IF
4430 R            IF FLG-CURR-BAL-ISVALID
4431 R               MOVE ACUP-NEW-CURR-BAL-N             TO WS-EDIT-CURRENCY-9-2-F
4432 R               MOVE WS-EDIT-CURRENCY-9-2-F          TO ACURBALO OF CACTUPAO
4433 R            ELSE
4434 R               MOVE ACUP-NEW-CURR-BAL-X             TO ACURBALO OF CACTUPAO
4435 R            END-IF
4436 R            IF FLG-CURR-CYC-CREDIT-ISVALID
4437 R               MOVE ACUP-NEW-CURR-CYC-CREDIT-N   TO WS-EDIT-CURRENCY-9-2-F
4438 R               MOVE WS-EDIT-CURRENCY-9-2-F          TO ACRCYCRO OF CACTUPAO
4439 R            ELSE
4440 R               MOVE ACUP-NEW-CURR-CYC-CREDIT-X   TO ACRCYCRO OF CACTUPAO
4441 R            END-IF
4442 R            IF FLG-CURR-CYC-DEBIT-ISVALID
4443 R               MOVE ACUP-NEW-CURR-CYC-DEBIT-N    TO WS-EDIT-CURRENCY-9-2-F
4444 R               MOVE WS-EDIT-CURRENCY-9-2-F          TO ACRCYDBO OF CACTUPAO
4445 R            ELSE
4446 R               MOVE ACUP-NEW-CURR-CYC-DEBIT-X    TO ACRCYDBO OF CACTUPAO
4447 R            END-IF
4448 R            MOVE ACUP-NEW-OPEN-YEAR                 TO OPNYEARO OF CACTUPAO
4449 R            MOVE ACUP-NEW-OPEN-MON                  TO OPNMONO  OF CACTUPAO
4450 R            MOVE ACUP-NEW-OPEN-DAY                  TO OPNDAYO  OF CACTUPAO
4451 R            MOVE ACUP-NEW-EXP-YEAR                  TO EXPYEARO OF CACTUPAO
4452 R            MOVE ACUP-NEW-EXP-MON                   TO EXPMONO  OF CACTUPAO
4453 R            MOVE ACUP-NEW-EXP-DAY                   TO EXPDAYO  OF CACTUPAO
4454 R            MOVE ACUP-NEW-REISSUE-YEAR              TO RISYEARO OF CACTUPAO
4455 R            MOVE ACUP-NEW-REISSUE-MON               TO RISMONO  OF CACTUPAO
4456 R            MOVE ACUP-NEW-REISSUE-DAY               TO RISDAYO  OF CACTUPAO
4457 R            MOVE ACUP-NEW-GROUP-ID                  TO AADDGRPO OF CACTUPAO
4458 R            MOVE ACUP-NEW-CUST-ID-X                 TO ACSTNUMO OF CACTUPAO
4459 R            MOVE ACUP-NEW-CUST-SSN-1                TO ACTSSN1O OF CACTUPAO
4460 R            MOVE ACUP-NEW-CUST-SSN-2                TO ACTSSN2O OF CACTUPAO
4461 R            MOVE ACUP-NEW-CUST-SSN-3                TO ACTSSN3O OF CACTUPAO
4462 R            MOVE ACUP-NEW-CUST-FICO-SCORE-X         TO ACSTFCOO OF CACTUPAO
4463 R            MOVE ACUP-NEW-CUST-DOB-YEAR             TO DOBYEARO OF CACTUPAO
4464 R            MOVE ACUP-NEW-CUST-DOB-MON              TO DOBMONO  OF CACTUPAO
4465 R            MOVE ACUP-NEW-CUST-DOB-DAY              TO DOBDAYO  OF CACTUPAO
4466 R            MOVE ACUP-NEW-CUST-FIRST-NAME           TO ACSFNAMO OF CACTUPAO
4467 R            MOVE ACUP-NEW-CUST-MIDDLE-NAME          TO ACSMNAMO OF CACTUPAO
4468 R            MOVE ACUP-NEW-CUST-LAST-NAME            TO ACSLNAMO OF CACTUPAO
4469 R            MOVE ACUP-NEW-CUST-ADDR-LINE-1          TO ACSADL1O OF CACTUPAO
4470 R            MOVE ACUP-NEW-CUST-ADDR-LINE-2          TO ACSADL2O OF CACTUPAO
4471 R            MOVE ACUP-NEW-CUST-ADDR-LINE-3          TO ACSCITYO OF CACTUPAO
4472 R            MOVE ACUP-NEW-CUST-ADDR-STATE-CD        TO ACSSTTEO OF CACTUPAO
4473 R            MOVE ACUP-NEW-CUST-ADDR-ZIP             TO ACSZIPCO OF CACTUPAO
4474 R            MOVE ACUP-NEW-CUST-ADDR-COUNTRY-CD      TO ACSCTRYO OF CACTUPAO
4475 R            MOVE ACUP-NEW-CUST-PHONE-NUM-1A         TO ACSPH1AO OF CACTUPAO
4476 R            MOVE ACUP-NEW-CUST-PHONE-NUM-1B         TO ACSPH1BO OF CACTUPAO
4477 R            MOVE ACUP-NEW-CUST-PHONE-NUM-1C         TO ACSPH1CO OF CACTUPAO
4478 R            MOVE ACUP-NEW-CUST-PHONE-NUM-2A         TO ACSPH2AO OF CACTUPAO
4479 R            MOVE ACUP-NEW-CUST-PHONE-NUM-2B         TO ACSPH2BO OF CACTUPAO
4480 R            MOVE ACUP-NEW-CUST-PHONE-NUM-2C         TO ACSPH2CO OF CACTUPAO
4481 R            MOVE ACUP-NEW-CUST-GOVT-ISSUED-ID       TO ACSGOVTO OF CACTUPAO
4482 R            MOVE ACUP-NEW-CUST-EFT-ACCOUNT-ID       TO ACSEFTCO OF CACTUPAO
4483 R            MOVE ACUP-NEW-CUST-PRI-HOLDER-IND       TO ACSPFLGO OF CACTUPAO
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4484 R                 .
4485          3203-SHOW-UPDATED-VALUES-EXIT.
4486              EXIT
4487                 .
4488          3250-SETUP-INFOMSG.
4489              EVALUATE TRUE
4490                  WHEN CDEMO-PGM-ENTER
4491                      SET  PROMPT-FOR-SEARCH-KEYS TO TRUE
4492                  WHEN ACUP-DETAILS-NOT-FETCHED
4493                      SET PROMPT-FOR-SEARCH-KEYS     TO TRUE
4494                  WHEN ACUP-SHOW-DETAILS
4495                      SET PROMPT-FOR-CHANGES         TO TRUE
4496                  WHEN ACUP-CHANGES-NOT-OK
4497                      SET PROMPT-FOR-CHANGES         TO TRUE
4498                  WHEN ACUP-CHANGES-OK-NOT-CONFIRMED
4499                      SET PROMPT-FOR-CONFIRMATION    TO TRUE
4500                  WHEN ACUP-CHANGES-OKAYED-AND-DONE
4501                      SET CONFIRM-UPDATE-SUCCESS     TO TRUE
4502                  WHEN ACUP-CHANGES-OKAYED-LOCK-ERROR
4503                      SET INFORM-FAILURE             TO TRUE
4504                  WHEN ACUP-CHANGES-OKAYED-BUT-FAILED
4505                      SET INFORM-FAILURE             TO TRUE
4506                  WHEN WS-NO-INFO-MESSAGE
4507                      SET PROMPT-FOR-SEARCH-KEYS     TO TRUE
4508              END-EVALUATE
4509              MOVE WS-INFO-MSG                       TO INFOMSGO OF CACTUPAO
4510              MOVE WS-RETURN-MSG                     TO ERRMSGO OF CACTUPAO
4511                 .
4512          3250-SETUP-INFOMSG-EXIT.
4513              EXIT
4514                 .
4515 R        3300-SETUP-SCREEN-ATTRS.
4516 R            PERFORM 3310-PROTECT-ALL-ATTRS
4517 R               THRU 3310-PROTECT-ALL-ATTRS-EXIT
4518 R            EVALUATE TRUE
4519 R                WHEN ACUP-DETAILS-NOT-FETCHED
4520 R                    MOVE DFHBMFSE     TO ACCTSIDA OF CACTUPAI
4521 R                WHEN  ACUP-SHOW-DETAILS
4522 R                WHEN  ACUP-CHANGES-NOT-OK
4523 R                    PERFORM 3320-UNPROTECT-FEW-ATTRS
4524 R                       THRU 3320-UNPROTECT-FEW-ATTRS-EXIT
4525 R                WHEN ACUP-CHANGES-OK-NOT-CONFIRMED
4526 R                WHEN ACUP-CHANGES-OKAYED-AND-DONE
4527 R                    CONTINUE
4528 R                WHEN OTHER
4529 R                    MOVE DFHBMFSE     TO ACCTSIDA OF CACTUPAI
4530 R            END-EVALUATE
4531 R            EVALUATE TRUE
4532 R                WHEN FOUND-ACCOUNT-DATA
4533 R                WHEN NO-CHANGES-DETECTED
4534 R                    MOVE -1            TO ACSTTUSL OF CACTUPAI
4535 R                WHEN FLG-ACCTFILTER-NOT-OK
4536 R                WHEN FLG-ACCTFILTER-BLANK
4537 R                    MOVE -1            TO ACCTSIDL OF CACTUPAI
4538 R                WHEN FLG-ACCT-STATUS-NOT-OK
4539 R                WHEN FLG-ACCT-STATUS-BLANK
4540 R                    MOVE -1            TO ACSTTUSL OF CACTUPAI
4541 R                WHEN FLG-OPEN-YEAR-NOT-OK
4542 R                WHEN FLG-OPEN-YEAR-BLANK
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4543 R                    MOVE -1              TO OPNYEARL OF CACTUPAI
4544 R              WHEN FLG-OPEN-MONTH-NOT-OK
4545 R              WHEN FLG-OPEN-MONTH-BLANK
4546 R                    MOVE -1              TO OPNMONL  OF CACTUPAI
4547 R              WHEN FLG-OPEN-DAY-NOT-OK
4548 R              WHEN FLG-OPEN-DAY-BLANK
4549 R                    MOVE -1              TO OPNDAYL  OF CACTUPAI
4550 R              WHEN FLG-CRED-LIMIT-NOT-OK
4551 R              WHEN FLG-CRED-LIMIT-BLANK
4552 R                    MOVE -1              TO ACRDLIML OF CACTUPAI
4553 R              WHEN FLG-EXPIRY-YEAR-NOT-OK
4554 R              WHEN FLG-EXPIRY-YEAR-BLANK
4555 R                    MOVE -1              TO EXPYEARL OF CACTUPAI
4556 R              WHEN FLG-EXPIRY-MONTH-NOT-OK
4557 R              WHEN FLG-EXPIRY-MONTH-BLANK
4558 R                    MOVE -1              TO EXPMONL  OF CACTUPAI
4559 R              WHEN FLG-EXPIRY-DAY-NOT-OK
4560 R              WHEN FLG-EXPIRY-DAY-BLANK
4561 R                    MOVE -1              TO EXPDAYL  OF CACTUPAI
4562 R              WHEN FLG-CASH-CREDIT-LIMIT-NOT-OK
4563 R              WHEN FLG-CASH-CREDIT-LIMIT-BLANK
4564 R                    MOVE -1              TO ACSHLIML OF CACTUPAI
4565 R              WHEN FLG-REISSUE-YEAR-NOT-OK
4566 R              WHEN FLG-REISSUE-YEAR-BLANK
4567 R                    MOVE -1              TO RISYEARL OF CACTUPAI
4568 R              WHEN FLG-REISSUE-MONTH-NOT-OK
4569 R              WHEN FLG-REISSUE-MONTH-BLANK
4570 R                    MOVE -1              TO RISMONL  OF CACTUPAI
4571 R              WHEN FLG-REISSUE-DAY-NOT-OK
4572 R              WHEN FLG-REISSUE-DAY-BLANK
4573 R                    MOVE -1              TO RISDAYL  OF CACTUPAI
4574 R              WHEN FLG-CURR-BAL-NOT-OK
4575 R              WHEN FLG-CURR-BAL-BLANK
4576 R                    MOVE -1              TO ACURBALL OF CACTUPAI
4577 R              WHEN FLG-CURR-CYC-CREDIT-NOT-OK
4578 R              WHEN FLG-CURR-CYC-CREDIT-BLANK
4579 R                    MOVE -1              TO ACRCYCRL OF CACTUPAI
4580 R              WHEN FLG-CURR-CYC-DEBIT-NOT-OK
4581 R              WHEN FLG-CURR-CYC-DEBIT-BLANK
4582 R                    MOVE -1              TO ACRCYDBL OF CACTUPAI
4583 R              WHEN FLG-EDIT-US-SSN-PART1-NOT-OK
4584 R              WHEN FLG-EDIT-US-SSN-PART1-BLANK
4585 R                    MOVE -1              TO ACTSSN1L OF CACTUPAI
4586 R              WHEN FLG-EDIT-US-SSN-PART2-NOT-OK
4587 R              WHEN FLG-EDIT-US-SSN-PART2-BLANK
4588 R                    MOVE -1              TO ACTSSN2L  OF CACTUPAI
4589 R              WHEN FLG-EDIT-US-SSN-PART3-NOT-OK
4590 R              WHEN FLG-EDIT-US-SSN-PART3-BLANK
4591 R                    MOVE -1              TO ACTSSN3L  OF CACTUPAI
4592 R              WHEN FLG-DT-OF-BIRTH-YEAR-NOT-OK
4593 R              WHEN FLG-DT-OF-BIRTH-YEAR-BLANK
4594 R                    MOVE -1              TO DOBYEARL OF CACTUPAI
4595 R              WHEN FLG-DT-OF-BIRTH-MONTH-NOT-OK
4596 R              WHEN FLG-DT-OF-BIRTH-MONTH-BLANK
4597 R                    MOVE -1              TO DOBMONL  OF CACTUPAI
4598 R              WHEN FLG-DT-OF-BIRTH-DAY-NOT-OK
4599 R              WHEN FLG-DT-OF-BIRTH-DAY-BLANK
4600 R                    MOVE -1              TO DOBDAYL  OF CACTUPAI
4601 R              WHEN FLG-FICO-SCORE-NOT-OK
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4602 R                WHEN FLG-FICO-SCORE-BLANK
4603 R                   MOVE -1              TO ACSTFCOL OF CACTUPAI
4604 R                WHEN FLG-FIRST-NAME-NOT-OK
4605 R                WHEN FLG-FIRST-NAME-BLANK
4606 R                   MOVE -1              TO ACSFNAML OF CACTUPAI
4607 R                WHEN FLG-MIDDLE-NAME-NOT-OK
4608 R                   MOVE -1              TO ACSMNAML OF CACTUPAI
4609 R                WHEN FLG-LAST-NAME-NOT-OK
4610 R                WHEN FLG-LAST-NAME-BLANK
4611 R                   MOVE -1              TO ACSLNAML OF CACTUPAI
4612 R                WHEN FLG-ADDRESS-LINE-1-NOT-OK
4613 R                WHEN FLG-ADDRESS-LINE-1-BLANK
4614 R                   MOVE -1              TO ACSADL1L OF CACTUPAI
4615 R                WHEN FLG-STATE-NOT-OK
4616 R                WHEN FLG-STATE-BLANK
4617 R                   MOVE -1              TO ACSSTTEL OF CACTUPAI
4618 R                WHEN FLG-ZIPCODE-NOT-OK
4619 R                WHEN FLG-ZIPCODE-BLANK
4620 R                   MOVE -1              TO ACSZIPCL OF CACTUPAI
4621 R                WHEN FLG-CITY-NOT-OK
4622 R                WHEN FLG-CITY-BLANK
4623 R                   MOVE -1              TO ACSCITYL OF CACTUPAI
4624 R                WHEN FLG-COUNTRY-NOT-OK
4625 R                WHEN FLG-COUNTRY-BLANK
4626 R                   MOVE -1              TO ACSCTRYL OF CACTUPAI
4627 R                WHEN FLG-PHONE-NUM-1A-NOT-OK
4628 R                WHEN FLG-PHONE-NUM-1A-BLANK
4629 R                   MOVE -1              TO ACSPH1AL OF CACTUPAI
4630 R                WHEN FLG-PHONE-NUM-1B-NOT-OK
4631 R                WHEN FLG-PHONE-NUM-1B-BLANK
4632 R                   MOVE -1              TO ACSPH1BL OF CACTUPAI
4633 R                WHEN FLG-PHONE-NUM-1C-NOT-OK
4634 R                WHEN FLG-PHONE-NUM-1C-BLANK
4635 R                   MOVE -1              TO ACSPH1CL OF CACTUPAI
4636 R                WHEN FLG-PHONE-NUM-2A-NOT-OK
4637 R                WHEN FLG-PHONE-NUM-2A-BLANK
4638 R                   MOVE -1              TO ACSPH2AL OF CACTUPAI
4639 R                WHEN FLG-PHONE-NUM-2B-NOT-OK
4640 R                WHEN FLG-PHONE-NUM-2B-BLANK
4641 R                   MOVE -1              TO ACSPH2BL OF CACTUPAI
4642 R                WHEN FLG-PHONE-NUM-2C-NOT-OK
4643 R                WHEN FLG-PHONE-NUM-2C-BLANK
4644 R                   MOVE -1              TO ACSPH2CL OF CACTUPAI
4645 R                WHEN FLG-EFT-ACCOUNT-ID-NOT-OK
4646 R                WHEN FLG-EFT-ACCOUNT-ID-BLANK
4647 R                   MOVE -1              TO ACSEFTCL OF CACTUPAI
4648 R                WHEN FLG-PRI-CARDHOLDER-NOT-OK
4649 R                WHEN FLG-PRI-CARDHOLDER-BLANK
4650 R                   MOVE -1              TO ACSPFLGL OF CACTUPAI
4651 R                WHEN OTHER
4652 R                   MOVE -1              TO ACCTSIDL OF CACTUPAI
4653 R               END-EVALUATE
4654 R            IF CDEMO-LAST-MAPSET   EQUAL LIT-CCLISTMAPSET
4655 R               MOVE DFHDFCOL            TO ACCTSIDC OF CACTUPAO
4656 R            END-IF
4657 R            IF FLG-ACCTFILTER-NOT-OK
4658 R               MOVE DFHRED             TO ACCTSIDC OF CACTUPAO
4659 R            END-IF
4660 R            IF  FLG-ACCTFILTER-BLANK
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4661 R            AND CDEMO-PGM-REENTER
4662 R                MOVE '*'                    TO ACCTSIDO OF CACTUPAO
4663 R                MOVE DFHRED                 TO ACCTSIDC OF CACTUPAO
4664 R            END-IF
4665 R            IF ACUP-DETAILS-NOT-FETCHED
4666 R            OR FLG-ACCTFILTER-BLANK
4667 R            OR FLG-ACCTFILTER-NOT-OK
4668 R               GO TO 3300-SETUP-SCREEN-ATTRS-EXIT
4669 R            ELSE
4670 R               CONTINUE
4671 R            END-IF
4672 R            IF (FLG-(TESTVAR1)-NOT-OK
4673 R            OR  FLG-(TESTVAR1)-BLANK)
4674 R            AND CDEMO-PGM-REENTER
4675 R                MOVE DFHRED             TO
4676 R                    (SCRNVAR2)C OF (MAPNAME3)O
4677 R                IF  FLG-(TESTVAR1)-BLANK
4678 R                    MOVE '*'            TO
4679 R                    (SCRNVAR2)O OF (MAPNAME3)O
4680 R                END-IF
4681 R            END-IF
4682 R             ==(TESTVAR1)== BY ==ACCT-STATUS==
4683 R             ==(SCRNVAR2)== BY ==ACSTTUS==
4684 R             ==(MAPNAME3)== BY ==CACTUPA== .
4685 R            IF (FLG-(TESTVAR1)-NOT-OK
4686 R            OR  FLG-(TESTVAR1)-BLANK)
4687 R            AND CDEMO-PGM-REENTER
4688 R                MOVE DFHRED             TO
4689 R                    (SCRNVAR2)C OF (MAPNAME3)O
4690 R                IF  FLG-(TESTVAR1)-BLANK
4691 R                    MOVE '*'            TO
4692 R                    (SCRNVAR2)O OF (MAPNAME3)O
4693 R                END-IF
4694 R            END-IF
4695 R             ==(TESTVAR1)== BY ==OPEN-YEAR==
4696 R             ==(SCRNVAR2)== BY ==OPNYEAR==
4697 R             ==(MAPNAME3)== BY ==CACTUPA== .
4698 R            IF (FLG-(TESTVAR1)-NOT-OK
4699 R            OR  FLG-(TESTVAR1)-BLANK)
4700 R            AND CDEMO-PGM-REENTER
4701 R                MOVE DFHRED             TO
4702 R                    (SCRNVAR2)C OF (MAPNAME3)O
4703 R                IF  FLG-(TESTVAR1)-BLANK
4704 R                    MOVE '*'            TO
4705 R                    (SCRNVAR2)O OF (MAPNAME3)O
4706 R                END-IF
4707 R            END-IF
4708 R             ==(TESTVAR1)== BY ==OPEN-MONTH==
4709 R             ==(SCRNVAR2)== BY ==OPNMON==
4710 R             ==(MAPNAME3)== BY ==CACTUPA== .
4711 R            IF (FLG-(TESTVAR1)-NOT-OK
4712 R            OR  FLG-(TESTVAR1)-BLANK)
4713 R            AND CDEMO-PGM-REENTER
4714 R                MOVE DFHRED             TO
4715 R                    (SCRNVAR2)C OF (MAPNAME3)O
4716 R                IF  FLG-(TESTVAR1)-BLANK
4717 R                    MOVE '*'            TO
4718 R                    (SCRNVAR2)O OF (MAPNAME3)O
4719 R                END-IF
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4720 R              END-IF
4721 R                ==(TESTVAR1)== BY ==OPEN-DAY==
4722 R                ==(SCRNVAR2)== BY ==OPNDAY==
4723 R                ==(MAPNAME3)== BY ==CACTUPA== .
4724 R              IF (FLG-(TESTVAR1)-NOT-OK
4725 R              OR  FLG-(TESTVAR1)-BLANK)
4726 R              AND CDEMO-PGM-REENTER
4727 R                  MOVE DFHRED           TO
4728 R                      (SCRNVAR2)C OF (MAPNAME3)O
4729 R                  IF  FLG-(TESTVAR1)-BLANK
4730 R                      MOVE '*'          TO
4731 R                      (SCRNVAR2)O OF (MAPNAME3)O
4732 R                  END-IF
4733 R              END-IF
4734 R                ==(TESTVAR1)== BY ==CRED-LIMIT==
4735 R                ==(SCRNVAR2)== BY ==ACRDLIM==
4736 R                ==(MAPNAME3)== BY ==CACTUPA== .
4737 R              IF (FLG-(TESTVAR1)-NOT-OK
4738 R              OR  FLG-(TESTVAR1)-BLANK)
4739 R              AND CDEMO-PGM-REENTER
4740 R                  MOVE DFHRED           TO
4741 R                      (SCRNVAR2)C OF (MAPNAME3)O
4742 R                  IF  FLG-(TESTVAR1)-BLANK
4743 R                      MOVE '*'          TO
4744 R                      (SCRNVAR2)O OF (MAPNAME3)O
4745 R                  END-IF
4746 R              END-IF
4747 R                ==(TESTVAR1)== BY ==EXPIRY-YEAR==
4748 R                ==(SCRNVAR2)== BY ==EXPYEAR==
4749 R                ==(MAPNAME3)== BY ==CACTUPA== .
4750 R              IF (FLG-(TESTVAR1)-NOT-OK
4751 R              OR  FLG-(TESTVAR1)-BLANK)
4752 R              AND CDEMO-PGM-REENTER
4753 R                  MOVE DFHRED           TO
4754 R                      (SCRNVAR2)C OF (MAPNAME3)O
4755 R                  IF  FLG-(TESTVAR1)-BLANK
4756 R                      MOVE '*'          TO
4757 R                      (SCRNVAR2)O OF (MAPNAME3)O
4758 R                  END-IF
4759 R              END-IF
4760 R                ==(TESTVAR1)== BY ==EXPIRY-MONTH==
4761 R                ==(SCRNVAR2)== BY ==EXPMON==
4762 R                ==(MAPNAME3)== BY ==CACTUPA== .
4763 R              IF (FLG-(TESTVAR1)-NOT-OK
4764 R              OR  FLG-(TESTVAR1)-BLANK)
4765 R              AND CDEMO-PGM-REENTER
4766 R                  MOVE DFHRED           TO
4767 R                      (SCRNVAR2)C OF (MAPNAME3)O
4768 R                  IF  FLG-(TESTVAR1)-BLANK
4769 R                      MOVE '*'          TO
4770 R                      (SCRNVAR2)O OF (MAPNAME3)O
4771 R                  END-IF
4772 R              END-IF
4773 R                ==(TESTVAR1)== BY ==EXPIRY-DAY==
4774 R                ==(SCRNVAR2)== BY ==EXPDAY==
4775 R                ==(MAPNAME3)== BY ==CACTUPA== .
4776 R              IF (FLG-(TESTVAR1)-NOT-OK
4777 R              OR  FLG-(TESTVAR1)-BLANK)
4778 R              AND CDEMO-PGM-REENTER
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4779 R                    MOVE DFHRED              TO
4780 R                         (SCRNVAR2)C OF (MAPNAME3)O
4781 R                    IF  FLG-(TESTVAR1)-BLANK
4782 R                        MOVE '*'             TO
4783 R                         (SCRNVAR2)O OF (MAPNAME3)O
4784 R                    END-IF
4785 R                END-IF
4786 R                 ==(TESTVAR1)== BY ==CASH-CREDIT-LIMIT==
4787 R                 ==(SCRNVAR2)== BY ==ACSHLIM==
4788 R                 ==(MAPNAME3)== BY ==CACTUPA== .
4789 R            IF (FLG-(TESTVAR1)-NOT-OK
4790 R            OR  FLG-(TESTVAR1)-BLANK)
4791 R            AND CDEMO-PGM-REENTER
4792 R                    MOVE DFHRED              TO
4793 R                         (SCRNVAR2)C OF (MAPNAME3)O
4794 R                    IF  FLG-(TESTVAR1)-BLANK
4795 R                        MOVE '*'             TO
4796 R                         (SCRNVAR2)O OF (MAPNAME3)O
4797 R                    END-IF
4798 R                END-IF
4799 R                 ==(TESTVAR1)== BY ==REISSUE-YEAR==
4800 R                 ==(SCRNVAR2)== BY ==RISYEAR==
4801 R                 ==(MAPNAME3)== BY ==CACTUPA== .
4802 R            IF (FLG-(TESTVAR1)-NOT-OK
4803 R            OR  FLG-(TESTVAR1)-BLANK)
4804 R            AND CDEMO-PGM-REENTER
4805 R                    MOVE DFHRED              TO
4806 R                         (SCRNVAR2)C OF (MAPNAME3)O
4807 R                    IF  FLG-(TESTVAR1)-BLANK
4808 R                        MOVE '*'             TO
4809 R                         (SCRNVAR2)O OF (MAPNAME3)O
4810 R                    END-IF
4811 R                END-IF
4812 R                 ==(TESTVAR1)== BY ==REISSUE-MONTH==
4813 R                 ==(SCRNVAR2)== BY ==RISMON==
4814 R                 ==(MAPNAME3)== BY ==CACTUPA== .
4815 R            IF (FLG-(TESTVAR1)-NOT-OK
4816 R            OR  FLG-(TESTVAR1)-BLANK)
4817 R            AND CDEMO-PGM-REENTER
4818 R                    MOVE DFHRED              TO
4819 R                         (SCRNVAR2)C OF (MAPNAME3)O
4820 R                    IF  FLG-(TESTVAR1)-BLANK
4821 R                        MOVE '*'             TO
4822 R                         (SCRNVAR2)O OF (MAPNAME3)O
4823 R                    END-IF
4824 R                END-IF
4825 R                 ==(TESTVAR1)== BY ==REISSUE-DAY==
4826 R                 ==(SCRNVAR2)== BY ==RISDAY==
4827 R                 ==(MAPNAME3)== BY ==CACTUPA== .
4828 R            IF (FLG-(TESTVAR1)-NOT-OK
4829 R            OR  FLG-(TESTVAR1)-BLANK)
4830 R            AND CDEMO-PGM-REENTER
4831 R                    MOVE DFHRED              TO
4832 R                         (SCRNVAR2)C OF (MAPNAME3)O
4833 R                    IF  FLG-(TESTVAR1)-BLANK
4834 R                        MOVE '*'             TO
4835 R                         (SCRNVAR2)O OF (MAPNAME3)O
4836 R                    END-IF
4837 R                END-IF
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4838 R                 ==(TESTVAR1)== BY ==CURR-BAL==
4839 R                 ==(SCRNVAR2)== BY ==ACURBAL==
4840 R                 ==(MAPNAME3)== BY ==CACTUPA== .
4841 R              IF (FLG-(TESTVAR1)-NOT-OK
4842 R              OR  FLG-(TESTVAR1)-BLANK)
4843 R              AND CDEMO-PGM-REENTER
4844 R                  MOVE DFHRED           TO
4845 R                      (SCRNVAR2)C OF (MAPNAME3)O
4846 R                  IF  FLG-(TESTVAR1)-BLANK
4847 R                      MOVE '*'          TO
4848 R                      (SCRNVAR2)O OF (MAPNAME3)O
4849 R                  END-IF
4850 R              END-IF
4851 R                 ==(TESTVAR1)== BY ==CURR-CYC-CREDIT==
4852 R                 ==(SCRNVAR2)== BY ==ACRCYCR==
4853 R                 ==(MAPNAME3)== BY ==CACTUPA== .
4854 R              IF (FLG-(TESTVAR1)-NOT-OK
4855 R              OR  FLG-(TESTVAR1)-BLANK)
4856 R              AND CDEMO-PGM-REENTER
4857 R                  MOVE DFHRED           TO
4858 R                      (SCRNVAR2)C OF (MAPNAME3)O
4859 R                  IF  FLG-(TESTVAR1)-BLANK
4860 R                      MOVE '*'          TO
4861 R                      (SCRNVAR2)O OF (MAPNAME3)O
4862 R                  END-IF
4863 R              END-IF
4864 R                 ==(TESTVAR1)== BY ==CURR-CYC-DEBIT==
4865 R                 ==(SCRNVAR2)== BY ==ACRCYDB==
4866 R                 ==(MAPNAME3)== BY ==CACTUPA== .
4867 R              IF (FLG-(TESTVAR1)-NOT-OK
4868 R              OR  FLG-(TESTVAR1)-BLANK)
4869 R              AND CDEMO-PGM-REENTER
4870 R                  MOVE DFHRED           TO
4871 R                      (SCRNVAR2)C OF (MAPNAME3)O
4872 R                  IF  FLG-(TESTVAR1)-BLANK
4873 R                      MOVE '*'          TO
4874 R                      (SCRNVAR2)O OF (MAPNAME3)O
4875 R                  END-IF
4876 R              END-IF
4877 R                 ==(TESTVAR1)== BY ==EDIT-US-SSN-PART1==
4878 R                 ==(SCRNVAR2)== BY ==ACTSSN1==
4879 R                 ==(MAPNAME3)== BY ==CACTUPA== .
4880 R              IF (FLG-(TESTVAR1)-NOT-OK
4881 R              OR  FLG-(TESTVAR1)-BLANK)
4882 R              AND CDEMO-PGM-REENTER
4883 R                  MOVE DFHRED           TO
4884 R                      (SCRNVAR2)C OF (MAPNAME3)O
4885 R                  IF  FLG-(TESTVAR1)-BLANK
4886 R                      MOVE '*'          TO
4887 R                      (SCRNVAR2)O OF (MAPNAME3)O
4888 R                  END-IF
4889 R              END-IF
4890 R                 ==(TESTVAR1)== BY ==EDIT-US-SSN-PART2==
4891 R                 ==(SCRNVAR2)== BY ==ACTSSN2==
4892 R                 ==(MAPNAME3)== BY ==CACTUPA== .
4893 R              IF (FLG-(TESTVAR1)-NOT-OK
4894 R              OR  FLG-(TESTVAR1)-BLANK)
4895 R              AND CDEMO-PGM-REENTER
4896 R                  MOVE DFHRED           TO
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4897 R                    (SCRNVAR2)C OF (MAPNAME3)O
4898 R              IF  FLG-(TESTVAR1)-BLANK
4899 R                  MOVE '*'              TO
4900 R                    (SCRNVAR2)O OF (MAPNAME3)O
4901 R              END-IF
4902 R          END-IF
4903 R            ==(TESTVAR1)== BY ==EDIT-US-SSN-PART3==
4904 R            ==(SCRNVAR2)== BY ==ACTSSN3==
4905 R            ==(MAPNAME3)== BY ==CACTUPA== .
4906 R          IF (FLG-(TESTVAR1)-NOT-OK
4907 R          OR  FLG-(TESTVAR1)-BLANK)
4908 R          AND CDEMO-PGM-REENTER
4909 R              MOVE DFHRED            TO
4910 R                    (SCRNVAR2)C OF (MAPNAME3)O
4911 R              IF  FLG-(TESTVAR1)-BLANK
4912 R                  MOVE '*'              TO
4913 R                    (SCRNVAR2)O OF (MAPNAME3)O
4914 R              END-IF
4915 R          END-IF
4916 R            ==(TESTVAR1)== BY ==DT-OF-BIRTH-YEAR==
4917 R            ==(SCRNVAR2)== BY ==DOBYEAR==
4918 R            ==(MAPNAME3)== BY ==CACTUPA== .
4919 R          IF (FLG-(TESTVAR1)-NOT-OK
4920 R          OR  FLG-(TESTVAR1)-BLANK)
4921 R          AND CDEMO-PGM-REENTER
4922 R              MOVE DFHRED            TO
4923 R                    (SCRNVAR2)C OF (MAPNAME3)O
4924 R              IF  FLG-(TESTVAR1)-BLANK
4925 R                  MOVE '*'              TO
4926 R                    (SCRNVAR2)O OF (MAPNAME3)O
4927 R              END-IF
4928 R          END-IF
4929 R            ==(TESTVAR1)== BY ==DT-OF-BIRTH-MONTH==
4930 R            ==(SCRNVAR2)== BY ==DOBMON==
4931 R            ==(MAPNAME3)== BY ==CACTUPA== .
4932 R          IF (FLG-(TESTVAR1)-NOT-OK
4933 R          OR  FLG-(TESTVAR1)-BLANK)
4934 R          AND CDEMO-PGM-REENTER
4935 R              MOVE DFHRED            TO
4936 R                    (SCRNVAR2)C OF (MAPNAME3)O
4937 R              IF  FLG-(TESTVAR1)-BLANK
4938 R                  MOVE '*'              TO
4939 R                    (SCRNVAR2)O OF (MAPNAME3)O
4940 R              END-IF
4941 R          END-IF
4942 R            ==(TESTVAR1)== BY ==DT-OF-BIRTH-DAY==
4943 R            ==(SCRNVAR2)== BY ==DOBDAY==
4944 R            ==(MAPNAME3)== BY ==CACTUPA== .
4945 R          IF (FLG-(TESTVAR1)-NOT-OK
4946 R          OR  FLG-(TESTVAR1)-BLANK)
4947 R          AND CDEMO-PGM-REENTER
4948 R              MOVE DFHRED            TO
4949 R                    (SCRNVAR2)C OF (MAPNAME3)O
4950 R              IF  FLG-(TESTVAR1)-BLANK
4951 R                  MOVE '*'              TO
4952 R                    (SCRNVAR2)O OF (MAPNAME3)O
4953 R              END-IF
4954 R          END-IF
4955 R            ==(TESTVAR1)== BY ==FICO-SCORE==
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4956 R              ==(SCRNVAR2)== BY ==ACSTFCO==
4957 R              ==(MAPNAME3)== BY ==CACTUPA== .
4958 R          IF (FLG-(TESTVAR1)-NOT-OK
4959 R          OR  FLG-(TESTVAR1)-BLANK)
4960 R          AND CDEMO-PGM-REENTER
4961 R              MOVE DFHRED            TO
4962 R                  (SCRNVAR2)C OF (MAPNAME3)O
4963 R              IF  FLG-(TESTVAR1)-BLANK
4964 R                  MOVE '*'            TO
4965 R                  (SCRNVAR2)O OF (MAPNAME3)O
4966 R              END-IF
4967 R          END-IF
4968 R            ==(TESTVAR1)== BY ==FIRST-NAME==
4969 R            ==(SCRNVAR2)== BY ==ACSFNAM==
4970 R            ==(MAPNAME3)== BY ==CACTUPA== .
4971 R          IF (FLG-(TESTVAR1)-NOT-OK
4972 R          OR  FLG-(TESTVAR1)-BLANK)
4973 R          AND CDEMO-PGM-REENTER
4974 R              MOVE DFHRED            TO
4975 R                  (SCRNVAR2)C OF (MAPNAME3)O
4976 R              IF  FLG-(TESTVAR1)-BLANK
4977 R                  MOVE '*'            TO
4978 R                  (SCRNVAR2)O OF (MAPNAME3)O
4979 R              END-IF
4980 R          END-IF
4981 R            ==(TESTVAR1)== BY ==MIDDLE-NAME==
4982 R            ==(SCRNVAR2)== BY ==ACSMNAM==
4983 R            ==(MAPNAME3)== BY ==CACTUPA== .
4984 R          IF (FLG-(TESTVAR1)-NOT-OK
4985 R          OR  FLG-(TESTVAR1)-BLANK)
4986 R          AND CDEMO-PGM-REENTER
4987 R              MOVE DFHRED            TO
4988 R                  (SCRNVAR2)C OF (MAPNAME3)O
4989 R              IF  FLG-(TESTVAR1)-BLANK
4990 R                  MOVE '*'            TO
4991 R                  (SCRNVAR2)O OF (MAPNAME3)O
4992 R              END-IF
4993 R          END-IF
4994 R            ==(TESTVAR1)== BY ==LAST-NAME==
4995 R            ==(SCRNVAR2)== BY ==ACSLNAM==
4996 R            ==(MAPNAME3)== BY ==CACTUPA== .
4997 R          IF (FLG-(TESTVAR1)-NOT-OK
4998 R          OR  FLG-(TESTVAR1)-BLANK)
4999 R          AND CDEMO-PGM-REENTER
5000 R              MOVE DFHRED            TO
5001 R                  (SCRNVAR2)C OF (MAPNAME3)O
5002 R              IF  FLG-(TESTVAR1)-BLANK
5003 R                  MOVE '*'            TO
5004 R                  (SCRNVAR2)O OF (MAPNAME3)O
5005 R              END-IF
5006 R          END-IF
5007 R            ==(TESTVAR1)== BY ==ADDRESS-LINE-1==
5008 R            ==(SCRNVAR2)== BY ==ACSADL1==
5009 R            ==(MAPNAME3)== BY ==CACTUPA== .
5010 R          IF (FLG-(TESTVAR1)-NOT-OK
5011 R          OR  FLG-(TESTVAR1)-BLANK)
5012 R          AND CDEMO-PGM-REENTER
5013 R              MOVE DFHRED            TO
5014 R                  (SCRNVAR2)C OF (MAPNAME3)O
```

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5015 R              IF  FLG-(TESTVAR1)-BLANK
5016 R                  MOVE '*'            TO
5017 R                      (SCRNVAR2)O OF (MAPNAME3)O
5018 R              END-IF
5019 R          END-IF
5020 R          ==(TESTVAR1)== BY ==STATE==
5021 R          ==(SCRNVAR2)== BY ==ACSSTTE==
5022 R          ==(MAPNAME3)== BY ==CACTUPA== .
5023 R      IF (FLG-(TESTVAR1)-NOT-OK
5024 R      OR  FLG-(TESTVAR1)-BLANK)
5025 R      AND CDEMO-PGM-REENTER
5026 R          MOVE DFHRED            TO
5027 R              (SCRNVAR2)C OF (MAPNAME3)O
5028 R          IF  FLG-(TESTVAR1)-BLANK
5029 R              MOVE '*'            TO
5030 R                  (SCRNVAR2)O OF (MAPNAME3)O
5031 R          END-IF
5032 R      END-IF
5033 R          ==(TESTVAR1)== BY ==ADDRESS-LINE-2==
5034 R          ==(SCRNVAR2)== BY ==ACSADL2==
5035 R          ==(MAPNAME3)== BY ==CACTUPA== .
5036 R      IF (FLG-(TESTVAR1)-NOT-OK
5037 R      OR  FLG-(TESTVAR1)-BLANK)
5038 R      AND CDEMO-PGM-REENTER
5039 R          MOVE DFHRED            TO
5040 R              (SCRNVAR2)C OF (MAPNAME3)O
5041 R          IF  FLG-(TESTVAR1)-BLANK
5042 R              MOVE '*'            TO
5043 R                  (SCRNVAR2)O OF (MAPNAME3)O
5044 R          END-IF
5045 R      END-IF
5046 R          ==(TESTVAR1)== BY ==ZIPCODE==
5047 R          ==(SCRNVAR2)== BY ==ACSZIPC==
5048 R          ==(MAPNAME3)== BY ==CACTUPA== .
5049 R      IF (FLG-(TESTVAR1)-NOT-OK
5050 R      OR  FLG-(TESTVAR1)-BLANK)
5051 R      AND CDEMO-PGM-REENTER
5052 R          MOVE DFHRED            TO
5053 R              (SCRNVAR2)C OF (MAPNAME3)O
5054 R          IF  FLG-(TESTVAR1)-BLANK
5055 R              MOVE '*'            TO
5056 R                  (SCRNVAR2)O OF (MAPNAME3)O
5057 R          END-IF
5058 R      END-IF
5059 R          ==(TESTVAR1)== BY ==CITY==
5060 R          ==(SCRNVAR2)== BY ==ACSCITY==
5061 R          ==(MAPNAME3)== BY ==CACTUPA== .
5062 R      IF (FLG-(TESTVAR1)-NOT-OK
5063 R      OR  FLG-(TESTVAR1)-BLANK)
5064 R      AND CDEMO-PGM-REENTER
5065 R          MOVE DFHRED            TO
5066 R              (SCRNVAR2)C OF (MAPNAME3)O
5067 R          IF  FLG-(TESTVAR1)-BLANK
5068 R              MOVE '*'            TO
5069 R                  (SCRNVAR2)O OF (MAPNAME3)O
5070 R          END-IF
5071 R      END-IF
5072 R          ==(TESTVAR1)== BY ==COUNTRY==
5073 R          ==(SCRNVAR2)== BY ==ACSCTRY==
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5074 R               ==(MAPNAME3)== BY ==CACTUPA== .
5075 R          IF (FLG-(TESTVAR1)-NOT-OK
5076 R          OR  FLG-(TESTVAR1)-BLANK)
5077 R          AND CDEMO-PGM-REENTER
5078 R               MOVE DFHRED            TO
5079 R                   (SCRNVAR2)C OF (MAPNAME3)O
5080 R               IF  FLG-(TESTVAR1)-BLANK
5081 R                   MOVE '*'           TO
5082 R                   (SCRNVAR2)O OF (MAPNAME3)O
5083 R               END-IF
5084 R          END-IF
5085 R            ==(TESTVAR1)== BY ==PHONE-NUM-1A==
5086 R            ==(SCRNVAR2)== BY ==ACSPH1A==
5087 R            ==(MAPNAME3)== BY ==CACTUPA== .
5088 R          IF (FLG-(TESTVAR1)-NOT-OK
5089 R          OR  FLG-(TESTVAR1)-BLANK)
5090 R          AND CDEMO-PGM-REENTER
5091 R               MOVE DFHRED            TO
5092 R                   (SCRNVAR2)C OF (MAPNAME3)O
5093 R               IF  FLG-(TESTVAR1)-BLANK
5094 R                   MOVE '*'           TO
5095 R                   (SCRNVAR2)O OF (MAPNAME3)O
5096 R               END-IF
5097 R          END-IF
5098 R            ==(TESTVAR1)== BY ==PHONE-NUM-1B==
5099 R            ==(SCRNVAR2)== BY ==ACSPH1B==
5100 R            ==(MAPNAME3)== BY ==CACTUPA== .
5101 R          IF (FLG-(TESTVAR1)-NOT-OK
5102 R          OR  FLG-(TESTVAR1)-BLANK)
5103 R          AND CDEMO-PGM-REENTER
5104 R               MOVE DFHRED            TO
5105 R                   (SCRNVAR2)C OF (MAPNAME3)O
5106 R               IF  FLG-(TESTVAR1)-BLANK
5107 R                   MOVE '*'           TO
5108 R                   (SCRNVAR2)O OF (MAPNAME3)O
5109 R               END-IF
5110 R          END-IF
5111 R            ==(TESTVAR1)== BY ==PHONE-NUM-1C==
5112 R            ==(SCRNVAR2)== BY ==ACSPH1C==
5113 R            ==(MAPNAME3)== BY ==CACTUPA== .
5114 R          IF (FLG-(TESTVAR1)-NOT-OK
5115 R          OR  FLG-(TESTVAR1)-BLANK)
5116 R          AND CDEMO-PGM-REENTER
5117 R               MOVE DFHRED            TO
5118 R                   (SCRNVAR2)C OF (MAPNAME3)O
5119 R               IF  FLG-(TESTVAR1)-BLANK
5120 R                   MOVE '*'           TO
5121 R                   (SCRNVAR2)O OF (MAPNAME3)O
5122 R               END-IF
5123 R          END-IF
5124 R            ==(TESTVAR1)== BY ==PHONE-NUM-2A==
5125 R            ==(SCRNVAR2)== BY ==ACSPH2A==
5126 R            ==(MAPNAME3)== BY ==CACTUPA== .
5127 R          IF (FLG-(TESTVAR1)-NOT-OK
5128 R          OR  FLG-(TESTVAR1)-BLANK)
5129 R          AND CDEMO-PGM-REENTER
5130 R               MOVE DFHRED            TO
5131 R                   (SCRNVAR2)C OF (MAPNAME3)O
5132 R               IF  FLG-(TESTVAR1)-BLANK
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5133 R                    MOVE '*'              TO
5134 R                         (SCRNVAR2)O OF (MAPNAME3)O
5135 R                 END-IF
5136 R            END-IF
5137 R              ==(TESTVAR1)== BY ==PHONE-NUM-2B==
5138 R              ==(SCRNVAR2)== BY ==ACSPH2B==
5139 R              ==(MAPNAME3)== BY ==CACTUPA== .
5140 R            IF (FLG-(TESTVAR1)-NOT-OK
5141 R            OR  FLG-(TESTVAR1)-BLANK)
5142 R            AND CDEMO-PGM-REENTER
5143 R                MOVE DFHRED           TO
5144 R                     (SCRNVAR2)C OF (MAPNAME3)O
5145 R                IF  FLG-(TESTVAR1)-BLANK
5146 R                    MOVE '*'              TO
5147 R                         (SCRNVAR2)O OF (MAPNAME3)O
5148 R                END-IF
5149 R            END-IF
5150 R              ==(TESTVAR1)== BY ==PHONE-NUM-2C==
5151 R              ==(SCRNVAR2)== BY ==ACSPH2C==
5152 R              ==(MAPNAME3)== BY ==CACTUPA== .
5153 R            IF (FLG-(TESTVAR1)-NOT-OK
5154 R            OR  FLG-(TESTVAR1)-BLANK)
5155 R            AND CDEMO-PGM-REENTER
5156 R                MOVE DFHRED           TO
5157 R                     (SCRNVAR2)C OF (MAPNAME3)O
5158 R                IF  FLG-(TESTVAR1)-BLANK
5159 R                    MOVE '*'              TO
5160 R                         (SCRNVAR2)O OF (MAPNAME3)O
5161 R                END-IF
5162 R            END-IF
5163 R              ==(TESTVAR1)== BY ==PRI-CARDHOLDER==
5164 R              ==(SCRNVAR2)== BY ==ACSPFLG==
5165 R              ==(MAPNAME3)== BY ==CACTUPA== .
5166 R            IF (FLG-(TESTVAR1)-NOT-OK
5167 R            OR  FLG-(TESTVAR1)-BLANK)
5168 R            AND CDEMO-PGM-REENTER
5169 R                MOVE DFHRED           TO
5170 R                     (SCRNVAR2)C OF (MAPNAME3)O
5171 R                IF  FLG-(TESTVAR1)-BLANK
5172 R                    MOVE '*'              TO
5173 R                         (SCRNVAR2)O OF (MAPNAME3)O
5174 R                END-IF
5175 R            END-IF
5176 R              ==(TESTVAR1)== BY ==EFT-ACCOUNT-ID==
5177 R              ==(SCRNVAR2)== BY ==ACSEFTC==
5178 R              ==(MAPNAME3)== BY ==CACTUPA== .
5179 R                 .
5180       3300-SETUP-SCREEN-ATTRS-EXIT.
5181           EXIT
5182                 .
5183 R     3310-PROTECT-ALL-ATTRS.
5184 R         MOVE DFHBMPRF              TO ACCTSIDA OF CACTUPAI
5185 R                                      ACSTTUSA OF CACTUPAI
5186 R                                      ACRDLIMA OF CACTUPAI
5187 R                                      ACSHLIMA OF CACTUPAI
5188 R                                      ACURBALA OF CACTUPAI
5189 R                                      ACRCYCRA OF CACTUPAI
5190 R                                      ACRCYDBA OF CACTUPAI
5191 R                                      OPNYEARA OF CACTUPAI
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5192 R                                         OPNMONA  OF CACTUPAI
5193 R                                         OPNDAYA  OF CACTUPAI
5194 R                                         EXPYEARA OF CACTUPAI
5195 R                                         EXPMONA  OF CACTUPAI
5196 R                                         EXPDAYA  OF CACTUPAI
5197 R                                         RISYEARA OF CACTUPAI
5198 R                                         RISMONA  OF CACTUPAI
5199 R                                         RISDAYA  OF CACTUPAI
5200 R                                         AADDGRPA OF CACTUPAI
5201 R                                         ACSTNUMA OF CACTUPAI
5202 R                                         ACTSSN1A OF CACTUPAI
5203 R                                         ACTSSN2A OF CACTUPAI
5204 R                                         ACTSSN3A OF CACTUPAI
5205 R                                         ACSTFCOA OF CACTUPAI
5206 R                                         DOBYEARA OF CACTUPAI
5207 R                                         DOBMONA  OF CACTUPAI
5208 R                                         DOBDAYA  OF CACTUPAI
5209 R                                         ACSFNAMA OF CACTUPAI
5210 R                                         ACSMNAMA OF CACTUPAI
5211 R                                         ACSLNAMA OF CACTUPAI
5212 R                                         ACSADL1A OF CACTUPAI
5213 R                                         ACSADL2A OF CACTUPAI
5214 R                                         ACSCITYA OF CACTUPAI
5215 R                                         ACSSTTEA OF CACTUPAI
5216 R                                         ACSZIPCA OF CACTUPAI
5217 R                                         ACSCTRYA OF CACTUPAI
5218 R                                         ACSPH1AA OF CACTUPAI
5219 R                                         ACSPH1BA OF CACTUPAI
5220 R                                         ACSPH1CA OF CACTUPAI
5221 R                                         ACSPH2AA OF CACTUPAI
5222 R                                         ACSPH2BA OF CACTUPAI
5223 R                                         ACSPH2CA OF CACTUPAI
5224 R                                         ACSGOVTA OF CACTUPAI
5225 R                                         ACSEFTCA OF CACTUPAI
5226 R                                         ACSPFLGA OF CACTUPAI
5227 R                                         INFOMSGA OF CACTUPAI
5228 R                       .
5229            3310-PROTECT-ALL-ATTRS-EXIT.
5230                EXIT
5231                    .
5232 R         3320-UNPROTECT-FEW-ATTRS.
5233 R             MOVE DFHBMFSE             TO ACSTTUSA OF CACTUPAI
5234 R                                         ACRDLIMA OF CACTUPAI
5235 R                                         ACSHLIMA OF CACTUPAI
5236 R                                         ACURBALA OF CACTUPAI
5237 R                                         ACRCYCRA OF CACTUPAI
5238 R                                         ACRCYDBA OF CACTUPAI
5239 R                                         OPNYEARA OF CACTUPAI
5240 R                                         OPNMONA  OF CACTUPAI
5241 R                                         OPNDAYA  OF CACTUPAI
5242 R                                         EXPYEARA OF CACTUPAI
5243 R                                         EXPMONA  OF CACTUPAI
5244 R                                         EXPDAYA  OF CACTUPAI
5245 R                                         RISYEARA OF CACTUPAI
5246 R                                         RISMONA  OF CACTUPAI
5247 R                                         RISDAYA  OF CACTUPAI
5248 R                                         DOBYEARA OF CACTUPAI
5249 R                                         DOBMONA  OF CACTUPAI
5250 R                                         DOBDAYA  OF CACTUPAI
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5251 R                                            AADDGRPA OF CACTUPAI
5252 R           MOVE DFHBMPRF          TO   ACSTNUMA OF CACTUPAI
5253 R           MOVE DFHBMFSE          TO   ACTSSN1A OF CACTUPAI
5254 R                                       ACTSSN2A OF CACTUPAI
5255 R                                       ACTSSN3A OF CACTUPAI
5256 R                                       ACSTFCOA OF CACTUPAI
5257 R                                       ACSFNAMA OF CACTUPAI
5258 R                                       ACSMNAMA OF CACTUPAI
5259 R                                       ACSLNAMA OF CACTUPAI
5260 R                                       ACSADL1A OF CACTUPAI
5261 R                                       ACSADL2A OF CACTUPAI
5262 R                                       ACSCITYA OF CACTUPAI
5263 R                                       ACSSTTEA OF CACTUPAI
5264 R                                       ACSZIPCA OF CACTUPAI
5265 R           MOVE DFHBMPRF          TO   ACSCTRYA OF CACTUPAI
5266 R           MOVE DFHBMFSE          TO   ACSPH1AA OF CACTUPAI
5267 R                                       ACSPH1BA OF CACTUPAI
5268 R                                       ACSPH1CA OF CACTUPAI
5269 R           MOVE DFHBMFSE          TO   ACSPH2AA OF CACTUPAI
5270 R                                       ACSPH2BA OF CACTUPAI
5271 R                                       ACSPH2CA OF CACTUPAI
5272 R                                       ACSGOVTA OF CACTUPAI
5273 R                                       ACSEFTCA OF CACTUPAI
5274 R                                       ACSPFLGA OF CACTUPAI
5275 R           MOVE DFHBMPRF          TO   INFOMSGA OF CACTUPAI
5276 R           .
5277         3320-UNPROTECT-FEW-ATTRS-EXIT.
5278             EXIT
5279             .
5280         3390-SETUP-INFOMSG-ATTRS.
5281             IF  WS-NO-INFO-MESSAGE
5282                 MOVE DFHBMDAR          TO INFOMSGA OF CACTUPAI
5283             ELSE
5284                 MOVE DFHBMASB          TO INFOMSGA OF CACTUPAI
5285             END-IF
5286             IF ACUP-CHANGES-MADE
5287             AND NOT ACUP-CHANGES-OKAYED-AND-DONE
5288                 MOVE DFHBMASB          TO FKEY12A  OF CACTUPAI
5289             END-IF
5290             IF PROMPT-FOR-CONFIRMATION
5291                 MOVE DFHBMASB          TO FKEY05A  OF CACTUPAI
5292                 MOVE DFHBMASB          TO FKEY12A  OF CACTUPAI
5293             END-IF
5294             .
5295         3390-SETUP-INFOMSG-ATTRS-EXIT.
5296             EXIT
5297             .
5298         3400-SEND-SCREEN.
5299             MOVE LIT-THISMAPSET       TO CCARD-NEXT-MAPSET
5300             MOVE LIT-THISMAP          TO CCARD-NEXT-MAP
5301             EXEC CICS SEND MAP(CCARD-NEXT-MAP)
5302                            MAPSET(CCARD-NEXT-MAPSET)
5303                            FROM(CACTUPAO)
5304                            CURSOR
5305                            ERASE
5306                            FREEKB
5307                            RESP(WS-RESP-CD)
5308             END-EXEC
5309             .
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5310          3400-SEND-SCREEN-EXIT.
5311              EXIT
5312              .
5313          9000-READ-ACCT.
5314              INITIALIZE ACUP-OLD-DETAILS
5315              SET  WS-NO-INFO-MESSAGE        TO TRUE
5316              MOVE CC-ACCT-ID                   TO ACUP-OLD-ACCT-ID
5317                                                  WS-CARD-RID-ACCT-ID
5318              PERFORM 9200-GETCARDXREF-BYACCT
5319                 THRU 9200-GETCARDXREF-BYACCT-EXIT
5320              IF FLG-ACCTFILTER-NOT-OK
5321                 GO TO 9000-READ-ACCT-EXIT
5322              END-IF
5323              PERFORM 9300-GETACCTDATA-BYACCT
5324                 THRU 9300-GETACCTDATA-BYACCT-EXIT
5325              IF DID-NOT-FIND-ACCT-IN-ACCTDAT
5326                 GO TO 9000-READ-ACCT-EXIT
5327              END-IF
5328              MOVE CDEMO-CUST-ID TO WS-CARD-RID-CUST-ID
5329              PERFORM 9400-GETCUSTDATA-BYCUST
5330                 THRU 9400-GETCUSTDATA-BYCUST-EXIT
5331              IF DID-NOT-FIND-CUST-IN-CUSTDAT
5332                 GO TO 9000-READ-ACCT-EXIT
5333              END-IF
5334              PERFORM 9500-STORE-FETCHED-DATA
5335                 THRU 9500-STORE-FETCHED-DATA-EXIT
5336              .
5337          9000-READ-ACCT-EXIT.
5338              EXIT
5339              .
5340 R        9200-GETCARDXREF-BYACCT.
5341 R            EXEC CICS READ
5342 R                DATASET   (LIT-CARDXREFNAME-ACCT-PATH)
5343 R                RIDFLD    (WS-CARD-RID-ACCT-ID-X)
5344 R                KEYLENGTH (LENGTH OF WS-CARD-RID-ACCT-ID-X)
5345 R                INTO      (CARD-XREF-RECORD)
5346 R                LENGTH    (LENGTH OF CARD-XREF-RECORD)
5347 R                RESP      (WS-RESP-CD)
5348 R                RESP2     (WS-REAS-CD)
5349 R            END-EXEC
5350 R            EVALUATE WS-RESP-CD
5351 R              WHEN DFHRESP(NORMAL)
5352 R                MOVE XREF-CUST-ID             TO CDEMO-CUST-ID
5353 R                MOVE XREF-CARD-NUM            TO CDEMO-CARD-NUM
5354 R              WHEN DFHRESP(NOTFND)
5355 R                SET INPUT-ERROR              TO TRUE
5356 R                SET FLG-ACCTFILTER-NOT-OK    TO TRUE
5357 R                IF WS-RETURN-MSG-OFF
5358 R                  MOVE WS-RESP-CD            TO ERROR-RESP
5359 R                  MOVE WS-REAS-CD            TO ERROR-RESP2
5360 R                  STRING
5361 R                   WS-CARD-RID-ACCT-ID-X
5362 R                  ERROR-RESP
5363 R                  ERROR-RESP2
5364 R                  DELIMITED BY SIZE
5365 R                  INTO WS-RETURN-MSG
5366 R                  END-STRING
5367 R                END-IF
5368 R              WHEN OTHER
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5369 R                    SET INPUT-ERROR                    TO TRUE
5370 R                    SET FLG-ACCTFILTER-NOT-OK                TO TRUE
5371 R                    MOVE 'READ'                        TO ERROR-OPNAME
5372 R                    MOVE LIT-CARDXREFNAME-ACCT-PATH TO ERROR-FILE
5373 R                    MOVE WS-RESP-CD                    TO ERROR-RESP
5374 R                    MOVE WS-REAS-CD                    TO ERROR-RESP2
5375 R                    MOVE WS-FILE-ERROR-MESSAGE         TO WS-RETURN-MSG
5376 R              END-EVALUATE
5377 R              .
5378        9200-GETCARDXREF-BYACCT-EXIT.
5379            EXIT
5380            .
5381 R      9300-GETACCTDATA-BYACCT.
5382 R          EXEC CICS READ
5383 R              DATASET   (LIT-ACCTFILENAME)
5384 R              RIDFLD    (WS-CARD-RID-ACCT-ID-X)
5385 R              KEYLENGTH (LENGTH OF WS-CARD-RID-ACCT-ID-X)
5386 R              INTO      (ACCOUNT-RECORD)
5387 R              LENGTH    (LENGTH OF ACCOUNT-RECORD)
5388 R              RESP      (WS-RESP-CD)
5389 R              RESP2     (WS-REAS-CD)
5390 R          END-EXEC
5391 R          EVALUATE WS-RESP-CD
5392 R              WHEN DFHRESP(NORMAL)
5393 R                  SET FOUND-ACCT-IN-MASTER       TO TRUE
5394 R              WHEN DFHRESP(NOTFND)
5395 R                  SET INPUT-ERROR                TO TRUE
5396 R                  SET FLG-ACCTFILTER-NOT-OK      TO TRUE
5397 R                  IF WS-RETURN-MSG-OFF
5398 R                    MOVE WS-RESP-CD               TO ERROR-RESP
5399 R                    MOVE WS-REAS-CD               TO ERROR-RESP2
5400 R                     STRING
5401 R                      WS-CARD-RID-ACCT-ID-X
5402 R                     ERROR-RESP
5403 R                     ERROR-RESP2
5404 R                     DELIMITED BY SIZE
5405 R                     INTO WS-RETURN-MSG
5406 R                     END-STRING
5407 R                  END-IF
5408 R              WHEN OTHER
5409 R                  SET INPUT-ERROR                TO TRUE
5410 R                  SET FLG-ACCTFILTER-NOT-OK                TO TRUE
5411 R                  MOVE 'READ'                    TO ERROR-OPNAME
5412 R                  MOVE LIT-ACCTFILENAME          TO ERROR-FILE
5413 R                  MOVE WS-RESP-CD                TO ERROR-RESP
5414 R                  MOVE WS-REAS-CD                TO ERROR-RESP2
5415 R                  MOVE WS-FILE-ERROR-MESSAGE     TO WS-RETURN-MSG
5416 R          END-EVALUATE
5417 R          .
5418        9300-GETACCTDATA-BYACCT-EXIT.
5419            EXIT
5420            .
5421        9400-GETCUSTDATA-BYCUST.
5422            EXEC CICS READ
5423                DATASET   (LIT-CUSTFILENAME)
5424                RIDFLD    (WS-CARD-RID-CUST-ID-X)
5425                KEYLENGTH (LENGTH OF WS-CARD-RID-CUST-ID-X)
5426                INTO      (CUSTOMER-RECORD)
5427                LENGTH    (LENGTH OF CUSTOMER-RECORD)
```

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5428                         RESP     (WS-RESP-CD)
5429                         RESP2    (WS-REAS-CD)
5430                  END-EXEC
5431                  EVALUATE WS-RESP-CD
5432                      WHEN DFHRESP(NORMAL)
5433                          SET FOUND-CUST-IN-MASTER        TO TRUE
5434                      WHEN DFHRESP(NOTFND)
5435                          SET INPUT-ERROR                 TO TRUE
5436                          SET FLG-CUSTFILTER-NOT-OK        TO TRUE
5437                          MOVE WS-RESP-CD                TO ERROR-RESP
5438                          MOVE WS-REAS-CD                TO ERROR-RESP2
5439                          IF WS-RETURN-MSG-OFF
5440                            STRING
5441                             WS-CARD-RID-CUST-ID-X
5442                            ERROR-RESP
5443                            ERROR-RESP2
5444                            DELIMITED BY SIZE
5445                            INTO WS-RETURN-MSG
5446                            END-STRING
5447                          END-IF
5448                      WHEN OTHER
5449                          SET INPUT-ERROR                 TO TRUE
5450                          SET FLG-CUSTFILTER-NOT-OK                TO TRUE
5451                          MOVE 'READ'                   TO ERROR-OPNAME
5452                          MOVE LIT-CUSTFILENAME         TO ERROR-FILE
5453                          MOVE WS-RESP-CD               TO ERROR-RESP
5454                          MOVE WS-REAS-CD               TO ERROR-RESP2
5455                          MOVE WS-FILE-ERROR-MESSAGE    TO WS-RETURN-MSG
5456                  END-EVALUATE
5457              .
5458          9400-GETCUSTDATA-BYCUST-EXIT.
5459              EXIT
5460              .
5461 R      9500-STORE-FETCHED-DATA.
5462 R          MOVE ACCT-ID                    TO CDEMO-ACCT-ID
5463 R          MOVE CUST-ID                    TO CDEMO-CUST-ID
5464 R          MOVE CUST-FIRST-NAME            TO CDEMO-CUST-FNAME
5465 R          MOVE CUST-MIDDLE-NAME           TO CDEMO-CUST-MNAME
5466 R          MOVE CUST-LAST-NAME             TO CDEMO-CUST-LNAME
5467 R          MOVE ACCT-ACTIVE-STATUS         TO CDEMO-ACCT-STATUS
5468 R          MOVE XREF-CARD-NUM              TO CDEMO-CARD-NUM
5469 R          INITIALIZE ACUP-OLD-DETAILS
5470 R          MOVE ACCT-ID                    TO ACUP-OLD-ACCT-ID
5471 R          MOVE ACCT-ACTIVE-STATUS         TO ACUP-OLD-ACTIVE-STATUS
5472 R          MOVE ACCT-CURR-BAL              TO ACUP-OLD-CURR-BAL-N
5473 R          MOVE ACCT-CREDIT-LIMIT          TO ACUP-OLD-CREDIT-LIMIT-N
5474 R          MOVE ACCT-CASH-CREDIT-LIMIT     TO ACUP-OLD-CASH-CREDIT-LIMIT-N
5475 R          MOVE ACCT-CURR-CYC-CREDIT       TO ACUP-OLD-CURR-CYC-CREDIT-N
5476 R          MOVE ACCT-CURR-CYC-DEBIT        TO ACUP-OLD-CURR-CYC-DEBIT-N
5477 R          MOVE ACCT-OPEN-DATE(1:4)        TO ACUP-OLD-OPEN-YEAR
5478 R          MOVE ACCT-OPEN-DATE(6:2)        TO ACUP-OLD-OPEN-MON
5479 R          MOVE ACCT-OPEN-DATE(9:2)        TO ACUP-OLD-OPEN-DAY
5480 R          MOVE ACCT-EXPIRAION-DATE(1:4) TO ACUP-OLD-EXP-YEAR
5481 R          MOVE ACCT-EXPIRAION-DATE(6:2) TO ACUP-OLD-EXP-MON
5482 R          MOVE ACCT-EXPIRAION-DATE(9:2) TO ACUP-OLD-EXP-DAY
5483 R          MOVE ACCT-REISSUE-DATE(1:4)     TO ACUP-OLD-REISSUE-YEAR
5484 R          MOVE ACCT-REISSUE-DATE(6:2)     TO ACUP-OLD-REISSUE-MON
5485 R          MOVE ACCT-REISSUE-DATE(9:2)     TO ACUP-OLD-REISSUE-DAY
5486 R          MOVE ACCT-GROUP-ID              TO ACUP-OLD-GROUP-ID
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5487 R             MOVE CUST-ID                      TO ACUP-OLD-CUST-ID
5488 R             MOVE CUST-SSN                     TO ACUP-OLD-CUST-SSN
5489 R             MOVE CUST-DOB-YYYY-MM-DD(1:4) TO ACUP-OLD-CUST-DOB-YEAR
5490 R             MOVE CUST-DOB-YYYY-MM-DD(6:2) TO ACUP-OLD-CUST-DOB-MON
5491 R             MOVE CUST-DOB-YYYY-MM-DD(9:2) TO ACUP-OLD-CUST-DOB-DAY
5492 R             MOVE CUST-FICO-CREDIT-SCORE   TO ACUP-OLD-CUST-FICO-SCORE
5493 R             MOVE CUST-FIRST-NAME          TO ACUP-OLD-CUST-FIRST-NAME
5494 R             MOVE CUST-MIDDLE-NAME         TO ACUP-OLD-CUST-MIDDLE-NAME
5495 R             MOVE CUST-LAST-NAME           TO ACUP-OLD-CUST-LAST-NAME
5496 R             MOVE CUST-ADDR-LINE-1         TO ACUP-OLD-CUST-ADDR-LINE-1
5497 R             MOVE CUST-ADDR-LINE-2         TO ACUP-OLD-CUST-ADDR-LINE-2
5498 R             MOVE CUST-ADDR-LINE-3         TO ACUP-OLD-CUST-ADDR-LINE-3
5499 R             MOVE CUST-ADDR-STATE-CD       TO ACUP-OLD-CUST-ADDR-STATE-CD
5500 R             MOVE CUST-ADDR-COUNTRY-CD     TO
5501 R                                            ACUP-OLD-CUST-ADDR-COUNTRY-CD
5502 R             MOVE CUST-ADDR-ZIP            TO ACUP-OLD-CUST-ADDR-ZIP
5503 R             MOVE CUST-PHONE-NUM-1         TO ACUP-OLD-CUST-PHONE-NUM-1
5504 R             MOVE CUST-PHONE-NUM-2         TO ACUP-OLD-CUST-PHONE-NUM-2
5505 R             MOVE CUST-GOVT-ISSUED-ID      TO ACUP-OLD-CUST-GOVT-ISSUED-ID
5506 R             MOVE CUST-EFT-ACCOUNT-ID      TO ACUP-OLD-CUST-EFT-ACCOUNT-ID
5507 R             MOVE CUST-PRI-CARD-HOLDER-IND TO ACUP-OLD-CUST-PRI-HOLDER-IND
5508 R             .
5509         9500-STORE-FETCHED-DATA-EXIT.
5510             EXIT
5511             .
5512 R       9600-WRITE-PROCESSING.
5513 R             MOVE CC-ACCT-ID               TO WS-CARD-RID-ACCT-ID
5514 R             EXEC CICS READ
5515 R                   FILE       (LIT-ACCTFILENAME)
5516 R                   UPDATE
5517 R                   RIDFLD     (WS-CARD-RID-ACCT-ID-X)
5518 R                   KEYLENGTH (LENGTH OF WS-CARD-RID-ACCT-ID-X)
5519 R                   INTO       (ACCOUNT-RECORD)
5520 R                   LENGTH     (LENGTH OF ACCOUNT-RECORD)
5521 R                   RESP       (WS-RESP-CD)
5522 R                   RESP2      (WS-REAS-CD)
5523 R             END-EXEC
5524 R             IF WS-RESP-CD EQUAL TO DFHRESP(NORMAL)
5525 R                CONTINUE
5526 R             ELSE
5527 R                SET INPUT-ERROR                    TO TRUE
5528 R                IF  WS-RETURN-MSG-OFF
5529 R                    SET COULD-NOT-LOCK-ACCT-FOR-UPDATE  TO TRUE
5530 R                END-IF
5531 R                GO TO 9600-WRITE-PROCESSING-EXIT
5532 R             END-IF
5533 R             MOVE CDEMO-CUST-ID                    TO WS-CARD-RID-CUST-ID
5534 R             EXEC CICS READ
5535 R                   FILE       (LIT-CUSTFILENAME)
5536 R                   UPDATE
5537 R                   RIDFLD     (WS-CARD-RID-CUST-ID-X)
5538 R                   KEYLENGTH (LENGTH OF WS-CARD-RID-CUST-ID-X)
5539 R                   INTO       (CUSTOMER-RECORD)
5540 R                   LENGTH     (LENGTH OF CUSTOMER-RECORD)
5541 R                   RESP       (WS-RESP-CD)
5542 R                   RESP2      (WS-REAS-CD)
5543 R             END-EXEC
5544 R             IF WS-RESP-CD EQUAL TO DFHRESP(NORMAL)
5545 R                CONTINUE
```

```
5546 R              ELSE
5547 R                 SET INPUT-ERROR                        TO TRUE
5548 R                 IF  WS-RETURN-MSG-OFF
5549 R                     SET COULD-NOT-LOCK-CUST-FOR-UPDATE  TO TRUE
5550 R                 END-IF
5551 R                 GO TO 9600-WRITE-PROCESSING-EXIT
5552 R              END-IF
5553 R              PERFORM 9700-CHECK-CHANGE-IN-REC
5554 R                 THRU 9700-CHECK-CHANGE-IN-REC-EXIT
5555 R              IF DATA-WAS-CHANGED-BEFORE-UPDATE
5556 R                 GO TO 9600-WRITE-PROCESSING-EXIT
5557 R              END-IF
5558 R              INITIALIZE ACCT-UPDATE-RECORD
5559 R              MOVE ACUP-NEW-ACCT-ID         TO ACCT-UPDATE-ID
5560 R              MOVE ACUP-NEW-ACTIVE-STATUS   TO ACCT-UPDATE-ACTIVE-STATUS
5561 R              MOVE ACUP-NEW-CURR-BAL-N      TO ACCT-UPDATE-CURR-BAL
5562 R              MOVE ACUP-NEW-CREDIT-LIMIT-N  TO ACCT-UPDATE-CREDIT-LIMIT
5563 R              MOVE ACUP-NEW-CASH-CREDIT-LIMIT-N
5564 R                                           TO ACCT-UPDATE-CASH-CREDIT-LIMIT
5565 R              MOVE ACUP-NEW-CURR-CYC-CREDIT-N
5566 R                                           TO ACCT-UPDATE-CURR-CYC-CREDIT
5567 R              MOVE ACUP-NEW-CURR-CYC-DEBIT-N TO ACCT-UPDATE-CURR-CYC-DEBIT
5568 R              STRING ACUP-NEW-OPEN-YEAR
5569 R                     ACUP-NEW-OPEN-MON
5570 R                     ACUP-NEW-OPEN-DAY
5571 R              DELIMITED BY SIZE
5572 R                                           INTO ACCT-UPDATE-OPEN-DATE
5573 R              STRING ACUP-NEW-EXP-YEAR
5574 R                     ACUP-NEW-EXP-MON
5575 R                     ACUP-NEW-EXP-DAY
5576 R              DELIMITED BY SIZE
5577 R                                           INTO ACCT-UPDATE-EXPIRAION-DATE
5578 R              MOVE ACCT-REISSUE-DATE        TO ACCT-UPDATE-REISSUE-DATE
5579 R              STRING ACUP-NEW-REISSUE-YEAR
5580 R                     ACUP-NEW-REISSUE-MON
5581 R                     ACUP-NEW-REISSUE-DAY
5582 R              DELIMITED BY SIZE
5583 R                                           INTO ACCT-UPDATE-REISSUE-DATE
5584 R              MOVE ACUP-NEW-GROUP-ID        TO ACCT-UPDATE-GROUP-ID
5585 R              INITIALIZE CUST-UPDATE-RECORD
5586 R              MOVE  ACUP-NEW-CUST-ID        TO CUST-UPDATE-ID
5587 R              MOVE  ACUP-NEW-CUST-FIRST-NAME
5588 R                                           TO CUST-UPDATE-FIRST-NAME
5589 R              MOVE  ACUP-NEW-CUST-MIDDLE-NAME
5590 R                                           TO CUST-UPDATE-MIDDLE-NAME
5591 R              MOVE  ACUP-NEW-CUST-LAST-NAME TO CUST-UPDATE-LAST-NAME
5592 R              MOVE  ACUP-NEW-CUST-ADDR-LINE-1
5593 R                                           TO CUST-UPDATE-ADDR-LINE-1
5594 R              MOVE  ACUP-NEW-CUST-ADDR-LINE-2
5595 R                                           TO CUST-UPDATE-ADDR-LINE-2
5596 R              MOVE  ACUP-NEW-CUST-ADDR-LINE-3
5597 R                                           TO CUST-UPDATE-ADDR-LINE-3
5598 R              MOVE  ACUP-NEW-CUST-ADDR-STATE-CD
5599 R                                           TO CUST-UPDATE-ADDR-STATE-CD
5600 R              MOVE  ACUP-NEW-CUST-ADDR-COUNTRY-CD
5601 R                                           TO CUST-UPDATE-ADDR-COUNTRY-CD
5602 R              MOVE  ACUP-NEW-CUST-ADDR-ZIP  TO CUST-UPDATE-ADDR-ZIP
5603 R              STRING '(',
5604 R                     ACUP-NEW-CUST-PHONE-NUM-1A,
```

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5605 R                              ')',
5606 R                              ACUP-NEW-CUST-PHONE-NUM-1B,
5607 R                              '-',
5608 R                              ACUP-NEW-CUST-PHONE-NUM-1C
5609 R              DELIMITED BY SIZE    INTO CUST-UPDATE-PHONE-NUM-1
5610 R              STRING '(',
5611 R                              ACUP-NEW-CUST-PHONE-NUM-2A,
5612 R                              ')',
5613 R                              ACUP-NEW-CUST-PHONE-NUM-2B,
5614 R                              '-',
5615 R                              ACUP-NEW-CUST-PHONE-NUM-2C
5616 R              DELIMITED BY SIZE    INTO CUST-UPDATE-PHONE-NUM-2
5617 R              MOVE  ACUP-NEW-CUST-SSN        TO CUST-UPDATE-SSN
5618 R              MOVE  ACUP-NEW-CUST-GOVT-ISSUED-ID
5619 R                                      TO CUST-UPDATE-GOVT-ISSUED-ID
5620 R              STRING ACUP-NEW-CUST-DOB-YEAR
5621 R                     ACUP-NEW-CUST-DOB-MON
5622 R                     ACUP-NEW-CUST-DOB-DAY
5623 R              DELIMITED BY SIZE          INTO CUST-UPDATE-DOB-YYYY-MM-DD
5624 R              MOVE ACUP-NEW-CUST-EFT-ACCOUNT-ID
5625 R                                      TO CUST-UPDATE-EFT-ACCOUNT-ID
5626 R              MOVE ACUP-NEW-CUST-PRI-HOLDER-IND
5627 R                                      TO CUST-UPDATE-PRI-CARD-IND
5628 R              MOVE ACUP-NEW-CUST-FICO-SCORE TO
5629 R                                      CUST-UPDATE-FICO-CREDIT-SCORE
5630 R              EXEC CICS
5631 R                  REWRITE FILE(LIT-ACCTFILENAME)
5632 R                          FROM(ACCT-UPDATE-RECORD)
5633 R                          LENGTH(LENGTH OF ACCT-UPDATE-RECORD)
5634 R                          RESP     (WS-RESP-CD)
5635 R                          RESP2    (WS-REAS-CD)
5636 R              END-EXEC.
5637 R              IF WS-RESP-CD EQUAL TO DFHRESP(NORMAL)
5638 R                 CONTINUE
5639 R              ELSE
5640 R                 SET LOCKED-BUT-UPDATE-FAILED    TO TRUE
5641 R                 GO TO 9600-WRITE-PROCESSING-EXIT
5642 R              END-IF
5643 R              EXEC CICS
5644 R                          REWRITE FILE(LIT-CUSTFILENAME)
5645 R                          FROM(CUST-UPDATE-RECORD)
5646 R                          LENGTH(LENGTH OF CUST-UPDATE-RECORD)
5647 R                          RESP     (WS-RESP-CD)
5648 R                          RESP2    (WS-REAS-CD)
5649 R              END-EXEC.
5650 R              IF WS-RESP-CD EQUAL TO DFHRESP(NORMAL)
5651 R                 CONTINUE
5652 R              ELSE
5653 R                 SET LOCKED-BUT-UPDATE-FAILED    TO TRUE
5654 R                 EXEC CICS
5655 R                     SYNCPOINT ROLLBACK
5656 R                 END-EXEC
5657 R                 GO TO 9600-WRITE-PROCESSING-EXIT
5658 R              END-IF
5659 R              .
5660         9600-WRITE-PROCESSING-EXIT.
5661              EXIT
5662              .
5663 R       9700-CHECK-CHANGE-IN-REC.
```

```
5664 R              IF  ACCT-ACTIVE-STATUS      EQUAL ACUP-OLD-ACTIVE-STATUS
5665 R              AND ACCT-CURR-BAL           EQUAL ACUP-OLD-CURR-BAL-N
5666 R              AND ACCT-CREDIT-LIMIT       EQUAL ACUP-OLD-CREDIT-LIMIT-N
5667 R              AND ACCT-CASH-CREDIT-LIMIT EQUAL ACUP-OLD-CASH-CREDIT-LIMIT-N
5668 R              AND ACCT-CURR-CYC-CREDIT    EQUAL ACUP-OLD-CURR-CYC-CREDIT-N
5669 R              AND ACCT-CURR-CYC-DEBIT     EQUAL ACUP-OLD-CURR-CYC-DEBIT-N
5670 R              AND ACCT-OPEN-DATE(1:4)     EQUAL ACUP-OLD-OPEN-YEAR
5671 R              AND ACCT-OPEN-DATE(6:2)     EQUAL ACUP-OLD-OPEN-MON
5672 R              AND ACCT-OPEN-DATE(9:2)     EQUAL ACUP-OLD-OPEN-DAY
5673 R              AND ACCT-EXPIRAION-DATE(1:4)EQUAL ACUP-OLD-EXP-YEAR
5674 R              AND ACCT-EXPIRAION-DATE(6:2)EQUAL ACUP-OLD-EXP-MON
5675 R              AND ACCT-EXPIRAION-DATE(9:2)EQUAL ACUP-OLD-EXP-DAY
5676 R              AND ACCT-REISSUE-DATE(1:4)  EQUAL ACUP-OLD-REISSUE-YEAR
5677 R              AND ACCT-REISSUE-DATE(6:2)  EQUAL ACUP-OLD-REISSUE-MON
5678 R              AND ACCT-REISSUE-DATE(9:2)  EQUAL ACUP-OLD-REISSUE-DAY
5679 R              AND FUNCTION LOWER-CASE (ACCT-GROUP-ID)          EQUAL
5680 R                  FUNCTION LOWER-CASE (ACUP-OLD-GROUP-ID)
5681 R                    CONTINUE
5682 R              ELSE
5683 R                 SET DATA-WAS-CHANGED-BEFORE-UPDATE TO TRUE
5684 R                 GO TO 9600-WRITE-PROCESSING-EXIT
5685 R              END-IF
5686 R              IF  FUNCTION UPPER-CASE (CUST-FIRST-NAME        ) EQUAL
5687 R                  FUNCTION UPPER-CASE (ACUP-OLD-CUST-FIRST-NAME )
5688 R              AND FUNCTION UPPER-CASE (CUST-MIDDLE-NAME       ) EQUAL
5689 R                  FUNCTION UPPER-CASE (ACUP-OLD-CUST-MIDDLE-NAME)
5690 R              AND FUNCTION UPPER-CASE (CUST-LAST-NAME         ) EQUAL
5691 R                  FUNCTION UPPER-CASE (ACUP-OLD-CUST-LAST-NAME   )
5692 R              AND FUNCTION UPPER-CASE (CUST-ADDR-LINE-1       ) EQUAL
5693 R                  FUNCTION UPPER-CASE (ACUP-OLD-CUST-ADDR-LINE-1)
5694 R              AND FUNCTION UPPER-CASE (CUST-ADDR-LINE-2       ) EQUAL
5695 R                  FUNCTION UPPER-CASE (ACUP-OLD-CUST-ADDR-LINE-2)
5696 R              AND FUNCTION UPPER-CASE (CUST-ADDR-LINE-3       ) EQUAL
5697 R                  FUNCTION UPPER-CASE (ACUP-OLD-CUST-ADDR-LINE-3)
5698 R              AND FUNCTION UPPER-CASE (CUST-ADDR-STATE-CD     ) EQUAL
5699 R                  FUNCTION UPPER-CASE (ACUP-OLD-CUST-ADDR-STATE-CD)
5700 R              AND FUNCTION UPPER-CASE (CUST-ADDR-COUNTRY-CD   ) EQUAL
5701 R                  FUNCTION UPPER-CASE (ACUP-OLD-CUST-ADDR-COUNTRY-CD )
5702 R              AND CUST-ADDR-ZIP          EQUAL ACUP-OLD-CUST-ADDR-ZIP
5703 R              AND CUST-PHONE-NUM-1       EQUAL ACUP-OLD-CUST-PHONE-NUM-1
5704 R              AND CUST-PHONE-NUM-2       EQUAL ACUP-OLD-CUST-PHONE-NUM-2
5705 R              AND CUST-SSN               EQUAL ACUP-OLD-CUST-SSN
5706 R              AND FUNCTION UPPER-CASE (CUST-GOVT-ISSUED-ID    ) EQUAL
5707 R                  FUNCTION UPPER-CASE (ACUP-OLD-CUST-GOVT-ISSUED-ID )
5708 R              AND CUST-DOB-YYYY-MM-DD (1:4)                    EQUAL
5709 R                  ACUP-OLD-CUST-DOB-YYYY-MM-DD (1:4)
5710 R              AND CUST-DOB-YYYY-MM-DD (6:2)                    EQUAL
5711 R                  ACUP-OLD-CUST-DOB-YYYY-MM-DD (5:2)
5712 R              AND CUST-DOB-YYYY-MM-DD (9:2)                    EQUAL
5713 R                  ACUP-OLD-CUST-DOB-YYYY-MM-DD (7:2)
5714 R              AND CUST-EFT-ACCOUNT-ID    EQUAL
5715 R                                         ACUP-OLD-CUST-EFT-ACCOUNT-ID
5716 R              AND CUST-PRI-CARD-HOLDER-IND
5717 R                                         EQUAL
5718 R                                         ACUP-OLD-CUST-PRI-HOLDER-IND
5719 R              AND CUST-FICO-CREDIT-SCORE  EQUAL ACUP-OLD-CUST-FICO-SCORE
5720 R                    CONTINUE
5721 R              ELSE
5722 R                 SET DATA-WAS-CHANGED-BEFORE-UPDATE TO TRUE
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5723 R                   GO TO 9600-WRITE-PROCESSING-EXIT
5724 R               END-IF
5725 R               .
5726           9700-CHECK-CHANGE-IN-REC-EXIT.
5727               EXIT
5728               .
5729 R         YYYY-STORE-PFKEY.
5730 R             EVALUATE TRUE
5731 R               WHEN EIBAID IS EQUAL TO DFHENTER
5732 R                 SET CCARD-AID-ENTER TO TRUE
5733 R               WHEN EIBAID IS EQUAL TO DFHCLEAR
5734 R                 SET CCARD-AID-CLEAR TO TRUE
5735 R               WHEN EIBAID IS EQUAL TO DFHPA1
5736 R                 SET CCARD-AID-PA1  TO TRUE
5737 R               WHEN EIBAID IS EQUAL TO DFHPA2
5738 R                 SET CCARD-AID-PA2  TO TRUE
5739 R               WHEN EIBAID IS EQUAL TO DFHPF1
5740 R                 SET CCARD-AID-PFK01 TO TRUE
5741 R               WHEN EIBAID IS EQUAL TO DFHPF2
5742 R                 SET CCARD-AID-PFK02 TO TRUE
5743 R               WHEN EIBAID IS EQUAL TO DFHPF3
5744 R                 SET CCARD-AID-PFK03 TO TRUE
5745 R               WHEN EIBAID IS EQUAL TO DFHPF4
5746 R                 SET CCARD-AID-PFK04 TO TRUE
5747 R               WHEN EIBAID IS EQUAL TO DFHPF5
5748 R                 SET CCARD-AID-PFK05 TO TRUE
5749 R               WHEN EIBAID IS EQUAL TO DFHPF6
5750 R                 SET CCARD-AID-PFK06 TO TRUE
5751 R               WHEN EIBAID IS EQUAL TO DFHPF7
5752 R                 SET CCARD-AID-PFK07 TO TRUE
5753 R               WHEN EIBAID IS EQUAL TO DFHPF8
5754 R                 SET CCARD-AID-PFK08 TO TRUE
5755 R               WHEN EIBAID IS EQUAL TO DFHPF9
5756 R                 SET CCARD-AID-PFK09 TO TRUE
5757 R               WHEN EIBAID IS EQUAL TO DFHPF10
5758 R                 SET CCARD-AID-PFK10 TO TRUE
5759 R               WHEN EIBAID IS EQUAL TO DFHPF11
5760 R                 SET CCARD-AID-PFK11 TO TRUE
5761 R               WHEN EIBAID IS EQUAL TO DFHPF12
5762 R                 SET CCARD-AID-PFK12 TO TRUE
5763 R               WHEN EIBAID IS EQUAL TO DFHPF13
5764 R                 SET CCARD-AID-PFK01 TO TRUE
5765 R               WHEN EIBAID IS EQUAL TO DFHPF14
5766 R                 SET CCARD-AID-PFK02 TO TRUE
5767 R               WHEN EIBAID IS EQUAL TO DFHPF15
5768 R                 SET CCARD-AID-PFK03 TO TRUE
5769 R               WHEN EIBAID IS EQUAL TO DFHPF16
5770 R                 SET CCARD-AID-PFK04 TO TRUE
5771 R               WHEN EIBAID IS EQUAL TO DFHPF17
5772 R                 SET CCARD-AID-PFK05 TO TRUE
5773 R               WHEN EIBAID IS EQUAL TO DFHPF18
5774 R                 SET CCARD-AID-PFK06 TO TRUE
5775 R               WHEN EIBAID IS EQUAL TO DFHPF19
5776 R                 SET CCARD-AID-PFK07 TO TRUE
5777 R               WHEN EIBAID IS EQUAL TO DFHPF20
5778 R                 SET CCARD-AID-PFK08 TO TRUE
5779 R               WHEN EIBAID IS EQUAL TO DFHPF21
5780 R                 SET CCARD-AID-PFK09 TO TRUE
5781 R               WHEN EIBAID IS EQUAL TO DFHPF22
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5782 R               SET CCARD-AID-PFK10 TO TRUE
5783 R             WHEN EIBAID IS EQUAL TO DFHPF23
5784 R               SET CCARD-AID-PFK11 TO TRUE
5785 R             WHEN EIBAID IS EQUAL TO DFHPF24
5786 R               SET CCARD-AID-PFK12 TO TRUE
5787 R           END-EVALUATE
5788 R           .
5789        YYYY-STORE-PFKEY-EXIT.
5790            EXIT
5791            .
5792            .
5793        ABEND-ROUTINE.
5794            IF ABEND-MSG EQUAL LOW-VALUES
5795                MOVE 'UNEXPECTED ABEND OCCURRED.' TO ABEND-MSG
5796            END-IF
5797            MOVE LIT-THISPGM        TO ABEND-CULPRIT
5798            EXEC CICS SEND
5799                               FROM (ABEND-DATA)
5800                               LENGTH(LENGTH OF ABEND-DATA)
5801                               NOHANDLE
5802                               ERASE
5803            END-EXEC
5804            EXEC CICS HANDLE ABEND
5805                 CANCEL
5806            END-EXEC
5807            EXEC CICS ABEND
5808                 ABCODE('9999')
5809            END-EXEC
5810            .
5811        ABEND-ROUTINE-EXIT.
5812            EXIT
5813            .
5814        EDIT-DATE-CCYYMMDD.
5815            SET WS-EDIT-DATE-IS-INVALID   TO TRUE
5816            .
5817        EDIT-YEAR-CCYY.
5818            SET FLG-YEAR-NOT-OK           TO TRUE
5819            IF WS-EDIT-DATE-CCYY          EQUAL LOW-VALUES
5820            OR WS-EDIT-DATE-CCYY          EQUAL SPACES
5821                SET INPUT-ERROR           TO TRUE
5822                SET  FLG-YEAR-BLANK       TO TRUE
5823                IF WS-RETURN-MSG-OFF
5824                    STRING
5825                       FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
5826                         DELIMITED BY SIZE
5827                         INTO WS-RETURN-MSG
5828                END-IF
5829                GO TO EDIT-YEAR-CCYY-EXIT
5830            ELSE
5831                CONTINUE
5832            END-IF
5833            IF WS-EDIT-DATE-CCYY          IS NOT NUMERIC
5834                SET INPUT-ERROR           TO TRUE
5835                SET  FLG-YEAR-NOT-OK      TO TRUE
5836                IF WS-RETURN-MSG-OFF
5837                    STRING
5838                       FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
5839                         DELIMITED BY SIZE
5840                         INTO WS-RETURN-MSG
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5841                    END-IF
5842                    GO TO EDIT-YEAR-CCYY-EXIT
5843                ELSE
5844                    CONTINUE
5845                END-IF
5846                IF THIS-CENTURY
5847                OR LAST-CENTURY
5848                    CONTINUE
5849                ELSE
5850                    SET INPUT-ERROR              TO TRUE
5851                    SET  FLG-YEAR-NOT-OK         TO TRUE
5852                    IF WS-RETURN-MSG-OFF
5853                        STRING
5854                           FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
5855                            DELIMITED BY SIZE
5856                            INTO WS-RETURN-MSG
5857                    END-IF
5858                    GO TO EDIT-YEAR-CCYY-EXIT
5859                END-IF
5860                SET FLG-YEAR-ISVALID            TO TRUE
5861            .
5862        EDIT-YEAR-CCYY-EXIT.
5863            EXIT
5864            .
5865        EDIT-MONTH.
5866            SET FLG-MONTH-NOT-OK               TO TRUE
5867            IF WS-EDIT-DATE-MM                 EQUAL LOW-VALUES
5868            OR WS-EDIT-DATE-MM                 EQUAL SPACES
5869                SET INPUT-ERROR                TO TRUE
5870                SET  FLG-MONTH-BLANK           TO TRUE
5871                IF WS-RETURN-MSG-OFF
5872                    STRING
5873                       FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
5874                        DELIMITED BY SIZE
5875                        INTO WS-RETURN-MSG
5876                END-IF
5877                GO TO EDIT-MONTH-EXIT
5878            ELSE
5879                CONTINUE
5880            END-IF
5881            IF WS-VALID-MONTH
5882                CONTINUE
5883            ELSE
5884                SET INPUT-ERROR                TO TRUE
5885                SET  FLG-MONTH-NOT-OK          TO TRUE
5886                IF WS-RETURN-MSG-OFF
5887                    STRING
5888                       FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
5889                        DELIMITED BY SIZE
5890                        INTO WS-RETURN-MSG
5891                END-IF
5892                GO TO EDIT-MONTH-EXIT
5893            END-IF
5894            IF FUNCTION TEST-NUMVAL (WS-EDIT-DATE-MM) = 0
5895                COMPUTE WS-EDIT-DATE-MM-N
5896                         = FUNCTION NUMVAL (WS-EDIT-DATE-MM)
5897                END-COMPUTE
5898            ELSE
5899                SET INPUT-ERROR                TO TRUE
```

```
5900                SET  FLG-MONTH-NOT-OK       TO TRUE
5901                IF WS-RETURN-MSG-OFF
5902                   STRING
5903                      FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
5904                      DELIMITED BY SIZE
5905                      INTO WS-RETURN-MSG
5906                END-IF
5907                GO TO EDIT-MONTH-EXIT
5908             END-IF
5909             SET FLG-MONTH-ISVALID        TO TRUE
5910             .
5911         EDIT-MONTH-EXIT.
5912             EXIT
5913             .
5914         EDIT-DAY.
5915             SET FLG-DAY-ISVALID          TO TRUE
5916             IF WS-EDIT-DATE-DD            EQUAL LOW-VALUES
5917             OR WS-EDIT-DATE-DD            EQUAL SPACES
5918                SET INPUT-ERROR           TO TRUE
5919                SET  FLG-DAY-BLANK        TO TRUE
5920                IF WS-RETURN-MSG-OFF
5921                   STRING
5922                      FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
5923                      DELIMITED BY SIZE
5924                      INTO WS-RETURN-MSG
5925                END-IF
5926                GO TO EDIT-DAY-EXIT
5927             ELSE
5928                CONTINUE
5929             END-IF
5930             IF FUNCTION TEST-NUMVAL (WS-EDIT-DATE-DD) = 0
5931                COMPUTE WS-EDIT-DATE-DD-N
5932                         = FUNCTION NUMVAL (WS-EDIT-DATE-DD)
5933                END-COMPUTE
5934             ELSE
5935                SET INPUT-ERROR           TO TRUE
5936                SET  FLG-DAY-NOT-OK       TO TRUE
5937                IF WS-RETURN-MSG-OFF
5938                   STRING
5939                      FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
5940                      DELIMITED BY SIZE
5941                      INTO WS-RETURN-MSG
5942                END-IF
5943                GO TO EDIT-DAY-EXIT
5944             END-IF
5945             IF WS-VALID-DAY
5946                CONTINUE
5947             ELSE
5948                SET INPUT-ERROR           TO TRUE
5949                SET FLG-DAY-NOT-OK        TO TRUE
5950                IF WS-RETURN-MSG-OFF
5951                   STRING
5952                      FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
5953                      DELIMITED BY SIZE
5954                      INTO WS-RETURN-MSG
5955                END-IF
5956                GO TO EDIT-DAY-EXIT
5957             END-IF
5958             .
```

```
5959              SET FLG-DAY-ISVALID            TO TRUE
5960                  .
5961          EDIT-DAY-EXIT.
5962              EXIT
5963                  .
5964 R        EDIT-DAY-MONTH-YEAR.
5965 R            IF  NOT WS-31-DAY-MONTH
5966 R            AND WS-DAY-31
5967 R                SET INPUT-ERROR              TO TRUE
5968 R                SET FLG-DAY-NOT-OK          TO TRUE
5969 R                SET FLG-MONTH-NOT-OK        TO TRUE
5970 R                IF WS-RETURN-MSG-OFF
5971 R                    STRING
5972 R                      FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
5973 R                        DELIMITED BY SIZE
5974 R                        INTO WS-RETURN-MSG
5975 R                END-IF
5976 R                GO TO EDIT-DATE-CCYYMMDD-EXIT
5977 R            END-IF
5978 R            IF  WS-FEBRUARY
5979 R            AND WS-DAY-30
5980 R                SET INPUT-ERROR              TO TRUE
5981 R                SET FLG-DAY-NOT-OK          TO TRUE
5982 R                SET FLG-MONTH-NOT-OK        TO TRUE
5983 R                IF WS-RETURN-MSG-OFF
5984 R                    STRING
5985 R                      FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
5986 R                        DELIMITED BY SIZE
5987 R                        INTO WS-RETURN-MSG
5988 R                END-IF
5989 R                GO TO EDIT-DATE-CCYYMMDD-EXIT
5990 R            END-IF
5991 R            IF  WS-FEBRUARY
5992 R            AND WS-DAY-29
5993 R                IF WS-EDIT-DATE-YY-N = 0
5994 R                    MOVE 400                TO  WS-DIV-BY
5995 R                ELSE
5996 R                    MOVE 4                  TO  WS-DIV-BY
5997 R                END-IF
5998 R                DIVIDE WS-EDIT-DATE-CCYY-N
5999 R                    BY WS-DIV-BY
6000 R                GIVING WS-DIVIDEND
6001 R                REMAINDER WS-REMAINDER
6002 R                IF WS-REMAINDER = ZEROES
6003 R                    CONTINUE
6004 R                ELSE
6005 R                    SET INPUT-ERROR          TO TRUE
6006 R                    SET FLG-DAY-NOT-OK      TO TRUE
6007 R                    SET FLG-MONTH-NOT-OK    TO TRUE
6008 R                    SET FLG-YEAR-NOT-OK     TO TRUE
6009 R                    IF WS-RETURN-MSG-OFF
6010 R                    STRING
6011 R                      FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
6012 R                       DELIMITED BY SIZE
6013 R                       INTO WS-RETURN-MSG
6014 R                    END-IF
6015 R                    GO TO EDIT-DATE-CCYYMMDD-EXIT
6016 R                END-IF
6017 R            END-IF
```

```
6018 R          IF WS-EDIT-DATE-IS-VALID
6019 R             CONTINUE
6020 R          ELSE
6021 R             GO TO EDIT-DATE-CCYYMMDD-EXIT
6022 R          END-IF
6023 R          .
6024        EDIT-DAY-MONTH-YEAR-EXIT.
6025           EXIT
6026           .
6027        EDIT-DATE-LE.
6028           INITIALIZE WS-DATE-VALIDATION-RESULT
6029           MOVE 'YYYYMMDD'                    TO WS-DATE-FORMAT
6030           CALL 'CSUTLDTC'
6031           USING WS-EDIT-DATE-CCYYMMDD
6032                , WS-DATE-FORMAT
6033                , WS-DATE-VALIDATION-RESULT
6034           IF WS-SEVERITY-N = 0
6035              CONTINUE
6036           ELSE
6037              SET INPUT-ERROR               TO TRUE
6038              SET FLG-DAY-NOT-OK            TO TRUE
6039              SET FLG-MONTH-NOT-OK          TO TRUE
6040              SET FLG-YEAR-NOT-OK           TO TRUE
6041              IF WS-RETURN-MSG-OFF
6042              STRING
6043                FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
6044                 WS-SEVERITY
6045                 WS-MSG-NO
6046                 DELIMITED BY SIZE
6047                INTO WS-RETURN-MSG
6048              END-IF
6049              GO TO EDIT-DATE-LE-EXIT
6050           END-IF
6051           IF NOT INPUT-ERROR
6052              SET FLG-DAY-ISVALID         TO TRUE
6053           END-IF
6054           .
6055        EDIT-DATE-LE-EXIT.
6056           EXIT
6057           .
6058           SET WS-EDIT-DATE-IS-VALID      TO TRUE
6059           .
6060        EDIT-DATE-CCYYMMDD-EXIT.
6061           EXIT
6062           .
6063        EDIT-DATE-OF-BIRTH.
6064           MOVE FUNCTION CURRENT-DATE TO WS-CURRENT-DATE-YYYYMMDD
6065           COMPUTE WS-EDIT-DATE-BINARY =
6066               FUNCTION INTEGER-OF-DATE (WS-EDIT-DATE-CCYYMMDD-N)
6067           COMPUTE WS-CURRENT-DATE-BINARY =
6068               FUNCTION INTEGER-OF-DATE (WS-CURRENT-DATE-YYYYMMDD-N)
6069           IF WS-CURRENT-DATE-BINARY > WS-EDIT-DATE-BINARY
6070              CONTINUE
6071           ELSE
6072              SET INPUT-ERROR               TO TRUE
6073              SET FLG-DAY-NOT-OK            TO TRUE
6074              SET FLG-MONTH-NOT-OK          TO TRUE
6075              SET FLG-YEAR-NOT-OK           TO TRUE
6076              IF WS-RETURN-MSG-OFF
```

```
6077                    STRING
6078                      FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
6079                       DELIMITED BY SIZE
6080                      INTO WS-RETURN-MSG
6081                    END-IF
6082                    GO TO EDIT-DATE-OF-BIRTH-EXIT
6083                END-IF
6084            .
6085        EDIT-DATE-OF-BIRTH-EXIT.
6086            EXIT
6087            .
6088            .
```

EXTRACTED BUSINESS DATA & BUSINESS RULES

Business data:

```
        07 WS-RESP-CD                          PIC S9(09) COMP
                                               VALUE ZEROS.
        07 WS-REAS-CD                          PIC S9(09) COMP
                                               VALUE ZEROS.
        07 WS-TRANID                           PIC X(4)
                                               VALUE SPACES.
        07 WS-UCTRANS                          PIC X(4)
                                               VALUE SPACES.

     10 WS-EDIT-VARIABLE-NAME                  PIC X(25).
     10 WS-EDIT-SIGNED-NUMBER-9V2-X            PIC X(15).
     10 WS-FLG-SIGNED-NUMBER-EDIT              PIC X(1).
     10 WS-EDIT-ALPHANUM-ONLY                  PIC X(256).
     10 WS-EDIT-ALPHANUM-LENGTH                PIC S9(4) COMP-3.
     10 WS-EDIT-ALPHA-ONLY-FLAGS               PIC X(1).
     10 WS-EDIT-ALPHANUM-ONLY-FLAGS            PIC X(1).
     10 WS-EDIT-MANDATORY-FLAGS                PIC X(1).
     10 WS-EDIT-YES-NO                         PIC X(1)
                                               VALUE 'N'.
     10 WS-EDIT-US-PHONE-NUM                   PIC X(15).
     10 WS-EDIT-US-PHONE-NUM-X REDEFINES
        WS-EDIT-US-PHONE-NUM.
        20 WS-EDIT-US-PHONE-NUMA               PIC X(3).
        20 WS-EDIT-US-PHONE-NUMA-N REDEFINES
           WS-EDIT-US-PHONE-NUMA               PIC 9(3).
        20 WS-EDIT-US-PHONE-NUMB               PIC X(3).
        20 WS-EDIT-US-PHONE-NUMB-N REDEFINES
           WS-EDIT-US-PHONE-NUMB               PIC 9(3).
        20 WS-EDIT-US-PHONE-NUMC               PIC X(4).
        20 WS-EDIT-US-PHONE-NUMC-N REDEFINES
           WS-EDIT-US-PHONE-NUMC               PIC 9(4).
     10 WS-EDIT-US-PHONE-NUM-FLGS.
         20 WS-EDIT-US-PHONEA-FLG              PIC X(01).
         20 WS-EDIT-EDIT-US-PHONEB            PIC X(01).
         20 WS-EDIT-EDIT-PHONEC               PIC X(01).
     10 WS-EDIT-US-SSN.
         20 WS-EDIT-US-SSN-PART1               PIC X(3).
         20 WS-EDIT-US-SSN-PART1-N REDEFINES
            WS-EDIT-US-SSN-PART1               PIC 9(3).
         20 WS-EDIT-US-SSN-PART2               PIC X(2).
         20 WS-EDIT-US-SSN-PART2-N REDEFINES
            WS-EDIT-US-SSN-PART2               PIC 9(2).
         20 WS-EDIT-US-SSN-PART3               PIC X(4).
         20 WS-EDIT-US-SSN-PART3-N REDEFINES
            WS-EDIT-US-SSN-PART3               PIC 9(4).
      10 WS-EDIT-US-SSN-N REDEFINES
         WS-EDIT-US-SSN                        PIC 9(09).
      10 WS-EDIT-US-SSN-FLGS.
         20 WS-EDIT-US-SSN-PART1-FLGS          PIC X(01).
         20 WS-EDIT-US-SSN-PART2-FLGS          PIC X(01).
         20 WS-EDIT-US-SSN-PART3-FLGS          PIC X(01).
     10 WS-DIV-BY                              PIC S9(4) COMP-3
                                               VALUE 4.
     10 WS-DIVIDEND                            PIC S9(4) COMP-3
                                               VALUE 0.
     10 WS-REMAINDER                           PIC S9(4) COMP-3
                                               VALUE 0.
     10 WS-CURR-DATE                           PIC X(21)
```

```
                                          VALUE SPACES.
        10 WS-EDIT-DATE-CCYYMMDD.
             25 WS-EDIT-DATE-CC                PIC X(2).
             25 WS-EDIT-DATE-CC-N REDEFINES    WS-EDIT-DATE-CC
                                               PIC 9(2).
             25 WS-EDIT-DATE-YY                PIC X(2).
             25 WS-EDIT-DATE-YY-N REDEFINES    WS-EDIT-DATE-YY
                                               PIC 9(2).
          20 WS-EDIT-DATE-CCYY-N  REDEFINES
             WS-EDIT-DATE-CCYY                 PIC 9(4).
          20 WS-EDIT-DATE-MM                   PIC X(2).
          20 WS-EDIT-DATE-MM-N REDEFINES WS-EDIT-DATE-MM
                                               PIC 9(2).
             88 WS-VALID-MONTH                 VALUES
                                               1 THROUGH 12.
          20 WS-EDIT-DATE-DD                   PIC X(2).
          20 WS-EDIT-DATE-DD-N REDEFINES WS-EDIT-DATE-DD
                                               PIC 9(2).
             88 WS-VALID-DAY                   VALUES
                                               1 THROUGH 31.
             88 WS-VALID-FEB-DAY               VALUES
                                               1 THROUGH 28.
       10 WS-EDIT-DATE-CCYYMMDD-N REDEFINES
          WS-EDIT-DATE-CCYYMMDD                PIC 9(8).
       10 WS-EDIT-DATE-BINARY                  PIC S9(9) BINARY.
       10 WS-CURRENT-DATE.
          20 WS-CURRENT-DATE-YYYYMMDD          PIC X(8).
          20 WS-CURRENT-DATE-YYYYMMDD-N REDEFINES
             WS-CURRENT-DATE-YYYYMMDD          PIC 9(8).
          20 WS-CURRENT-DATE-BINARY            PIC S9(9) BINARY.
       10 WS-EDIT-DATE-FLGS.
           20 WS-EDIT-YEAR-FLG                 PIC X(01).
           20 WS-EDIT-MONTH                    PIC X(01).
           20 WS-EDIT-DAY                      PIC X(01).
      10 WS-DATE-FORMAT                        PIC X(08)
                                               VALUE 'YYYYMMDD'.
       10 WS-DATE-VALIDATION-RESULT .
           20 WS-SEVERITY                      PIC X(04).
           20 WS-SEVERITY-N                    REDEFINES
              WS-SEVERITY                      PIC 9(4).
           20 WS-MSG-NO                        PIC X(04).
           20 WS-MSG-NO-N                      REDEFINES
              WS-MSG-NO                        PIC 9(4).
           20 WS-RESULT                        PIC X(15).
           20 WS-DATE                          PIC X(10).
           20 WS-DATE-FMT                      PIC X(10).
    05  WS-DATACHANGED-FLAG                    PIC X(1).
      88  NO-CHANGES-FOUND                     VALUE '0'.
    05  WS-INPUT-FLAG                          PIC X(1).
    05  WS-RETURN-FLAG                         PIC X(1).
    05  WS-PFK-FLAG                            PIC X(1).
    05  WS-EDIT-ACCT-FLAG                      PIC X(1).
      88  FLG-ACCTFILTER-ISVALID               VALUE '1'.
      88  FLG-ACCTFILTER-NOT-OK                VALUE '0'.
      88  FLG-ACCTFILTER-BLANK                 VALUE ' '.
    05  WS-EDIT-CUST-FLAG                      PIC X(1).
      10  WS-EDIT-ACCT-STATUS                  PIC  X(1).
      10  WS-EDIT-CREDIT-LIMIT                 PIC  X(1).
      10  WS-EDIT-CASH-CREDIT-LIMIT            PIC  X(1).
```

```
10  WS-EDIT-CURR-BAL                       PIC  X(1).
10  WS-EDIT-CURR-CYC-CREDIT                PIC  X(1).
10  WS-EDIT-CURR-CYC-DEBIT                 PIC  X(1).
10 WS-EDIT-DT-OF-BIRTH-FLGS.
    20 WS-EDIT-DT-OF-BIRTH-YEAR-FLG        PIC X(01).
    20 WS-EDIT-DT-OF-BIRTH-MONTH           PIC X(01).
    20 WS-EDIT-DT-OF-BIRTH-DAY             PIC X(01).
10  WS-EDIT-FICO-SCORE-FLGS                PIC  X(1).
10 WS-EDIT-OPEN-DATE-FLGS.
    20 WS-EDIT-OPEN-YEAR-FLG               PIC X(01).
    20 WS-EDIT-OPEN-MONTH                  PIC X(01).
    20 WS-EDIT-OPEN-DAY                    PIC X(01).
10 WS-EXPIRY-DATE-FLGS.
    20 WS-EDIT-EXPIRY-YEAR-FLG             PIC X(01).
    20 WS-EDIT-EXPIRY-MONTH                PIC X(01).
    20 WS-EDIT-EXPIRY-DAY                  PIC X(01).
10 WS-EDIT-REISSUE-DATE-FLGS.
    20 WS-EDIT-REISSUE-YEAR-FLG            PIC X(01).
    20 WS-EDIT-REISSUE-MONTH               PIC X(01).
    20 WS-EDIT-REISSUE-DAY                 PIC X(01).
10 WS-EDIT-NAME-FLAGS.
    20 WS-EDIT-FIRST-NAME-FLGS             PIC X(01).
    20 WS-EDIT-MIDDLE-NAME-FLGS            PIC X(01).
    20 WS-EDIT-LAST-NAME-FLGS              PIC X(01).
10 WS-EDIT-ADDRESS-FLAGS.
    20 WS-EDIT-ADDRESS-LINE-1-FLGS         PIC X(01).
    20 WS-EDIT-ADDRESS-LINE-2-FLGS         PIC X(01).
    20 WS-EDIT-CITY-FLGS                   PIC X(01).
    20 WS-EDIT-STATE-FLGS                  PIC X(01).
    20 WS-EDIT-ZIPCODE-FLGS                PIC X(01).
    20 WS-EDIT-COUNTRY-FLGS                PIC X(01).
        30 WS-EDIT-PHONE-NUM-1A-FLG        PIC X(01).
        30 WS-EDIT-PHONE-NUM-1B            PIC X(01).
        30 WS-EDIT-PHONE-NUM-1C            PIC X(01).
        30 WS-EDIT-PHONE-NUM-2A-FLG        PIC X(01).
        30 WS-EDIT-PHONE-NUM-2B            PIC X(01).
        30 WS-EDIT-PHONE-NUM-2C            PIC X(01).
10  WS-EFT-ACCOUNT-ID-FLGS                 PIC X(01).
10  WS-EDIT-PRI-CARDHOLDER                 PIC  X(1).
10  CUST-ACCT-ID-X                         PIC X(11).
10  CUST-ACCT-ID-N REDEFINES CUST-ACCT-ID-X
                                           PIC 9(11).
10  WS-EDIT-DATE-X                         PIC X(10).
    20 WS-EDIT-DATE-X-YEAR                 PIC X(4).
    20 WS-EDIT-DATE-MONTH                  PIC X(2).
    20 WS-EDIT-DATE-DAY                    PIC X(2).
10  WS-EDIT-DATE-X REDEFINES
    WS-EDIT-DATE-X                         PIC 9(10).
10  WS-EDIT-CURRENCY-9-2                   PIC X(15).
10  WS-EDIT-CURRENCY-9-2-F                 PIC +ZZZ,ZZZ,ZZZ.99.
10  WS-CARD-RID-CARDNUM                    PIC X(16).
10  WS-CARD-RID-CUST-ID                    PIC 9(09).
10  WS-CARD-RID-CUST-ID-X REDEFINES
        WS-CARD-RID-CUST-ID                PIC X(09).
10  WS-CARD-RID-ACCT-ID                    PIC 9(11).
10  WS-CARD-RID-ACCT-ID-X REDEFINES
        WS-CARD-RID-ACCT-ID                PIC X(11).
10 WS-ACCOUNT-MASTER-READ-FLAG            PIC X(1).
10 WS-CUST-MASTER-READ-FLAG               PIC X(1).
```

```
      10  ERROR-OPNAME                      PIC X(8)
                                            VALUE SPACES.
      10  ERROR-FILE                        PIC X(9)
                                            VALUE SPACES.
      10  ERROR-RESP                        PIC X(10)
                                            VALUE SPACES.
      10  ERROR-RESP2                       PIC X(10)
                                            VALUE SPACES.
       15 ACUP-NEW-CREDIT-LIMIT-X           PIC X(15).
       15 ACUP-NEW-CASH-CREDIT-LIMIT-X      PIC X(15).
       15 ACUP-NEW-CURR-BAL-X               PIC X(15).
       15 ACUP-NEW-CURR-CYC-CREDIT-X        PIC X(15).
       15 ACUP-NEW-CURR-CYC-DEBIT-X         PIC X(15).
        15  ACCT-UPDATE-ID                    PIC 9(11).
        15  ACCT-UPDATE-ACTIVE-STATUS         PIC X(01).
        15  ACCT-UPDATE-CURR-BAL              PIC S9(10)V99.
        15  ACCT-UPDATE-CREDIT-LIMIT          PIC S9(10)V99.
        15  ACCT-UPDATE-CASH-CREDIT-LIMIT     PIC S9(10)V99.
        15  ACCT-UPDATE-OPEN-DATE             PIC X(10).
        15  ACCT-UPDATE-EXPIRAION-DATE        PIC X(10).
        15  ACCT-UPDATE-REISSUE-DATE          PIC X(10).
        15  ACCT-UPDATE-CURR-CYC-CREDIT       PIC S9(10)V99.
        15  ACCT-UPDATE-CURR-CYC-DEBIT        PIC S9(10)V99.
        15  ACCT-UPDATE-GROUP-ID              PIC X(10).
        15  CUST-UPDATE-ID                    PIC 9(09).
        15  CUST-UPDATE-FIRST-NAME            PIC X(25).
        15  CUST-UPDATE-MIDDLE-NAME           PIC X(25).
        15  CUST-UPDATE-LAST-NAME             PIC X(25).
        15  CUST-UPDATE-ADDR-LINE-1           PIC X(50).
        15  CUST-UPDATE-ADDR-LINE-2           PIC X(50).
        15  CUST-UPDATE-ADDR-LINE-3           PIC X(50).
        15  CUST-UPDATE-ADDR-STATE-CD         PIC X(02).
        15  CUST-UPDATE-ADDR-COUNTRY-CD       PIC X(03).
        15  CUST-UPDATE-ADDR-ZIP              PIC X(10).
        15  CUST-UPDATE-PHONE-NUM-1           PIC X(15).
        15  CUST-UPDATE-PHONE-NUM-2           PIC X(15).
        15  CUST-UPDATE-SSN                   PIC 9(09).
        15  CUST-UPDATE-GOVT-ISSUED-ID        PIC X(20).
        15  CUST-UPDATE-DOB-YYYY-MM-DD        PIC X(10).
        15  CUST-UPDATE-EFT-ACCOUNT-ID        PIC X(10).
        15  CUST-UPDATE-PRI-CARD-IND          PIC X(01).
        15  CUST-UPDATE-FICO-CREDIT-SCORE     PIC 9(03).
     05  WS-LONG-MSG                       PIC X(500).
     05  WS-INFO-MSG                       PIC X(40).
     05  WS-RETURN-MSG                     PIC X(75).
     05 LIT-THISPGM                        PIC X(8)
                                           VALUE 'COACTUPC'.
     05 LIT-THISTRANID                     PIC X(4)
                                           VALUE 'CAUP'.
     05 LIT-THISMAPSET                     PIC X(8)
                                           VALUE 'COACTUP '.
     05 LIT-THISMAP                        PIC X(7)
                                           VALUE 'CACTUPA'.
     05 LIT-CARDUPDATE-PGM                 PIC X(8)
                                           VALUE 'COCRDUPC'.
     05 LIT-CARDUPDATE-TRANID              PIC X(4)
                                           VALUE 'CCUP'.
     05 LIT-CARDUPDATE-MAPSET              PIC X(8)
                                           VALUE 'COCRDUP '.
```

```
05 LIT-CARDUPDATE-MAP                     PIC X(7)
                                          VALUE 'CCRDUPA'.
05 LIT-CCLISTPGM                          PIC X(8)
                                          VALUE 'COCRDLIC'.
05 LIT-CCLISTTRANID                       PIC X(4)
                                          VALUE 'CCLI'.
05 LIT-CCLISTMAPSET                       PIC X(7)
                                          VALUE 'COCRDLI'.
05 LIT-CCLISTMAP                          PIC X(7)
                                          VALUE 'CCRDSLA'.
05 LIT-MENUPGM                            PIC X(8)
                                          VALUE 'COMEN01C'.
05 LIT-MENUTRANID                         PIC X(4)
                                          VALUE 'CM00'.
05 LIT-MENUMAPSET                         PIC X(7)
                                          VALUE 'COMEN01'.
05 LIT-MENUMAP                            PIC X(7)
                                          VALUE 'COMEN1A'.
05 LIT-CARDDTLPGM                         PIC X(8)
                                          VALUE 'COCRDSLC'.
05 LIT-CARDDTLTRANID                      PIC X(4)
                                          VALUE 'CCDL'.
05 LIT-CARDDTLMAPSET                      PIC X(7)
                                          VALUE 'COCRDSL'.
05 LIT-CARDDTLMAP                         PIC X(7)
                                          VALUE 'CCRDSLA'.
05 LIT-ACCTFILENAME                       PIC X(8)
                                          VALUE 'ACCTDAT '.
05 LIT-CUSTFILENAME                       PIC X(8)
                                          VALUE 'CUSTDAT '.
05 LIT-CARDFILENAME                       PIC X(8)
                                          VALUE 'CARDDAT '.
05 LIT-CARDFILENAME-ACCT-PATH             PIC X(8)
                                          VALUE 'CARDAIX '.
05 LIT-CARDXREFNAME-ACCT-PATH             PIC X(8)
                                          VALUE 'CXACAIX '.
   10 LIT-ALL-ALPHA-FROM-X.
      15 LIT-UPPER                        PIC X(26)
                     VALUE 'ABCDEFGHIJKLMNOPQRSTUVWXYZ'.
      15 LIT-LOWER                        PIC X(26)
                     VALUE 'ABCDEFGHIJKLMNOPQRSTUVWXYZ'.
   10 LIT-NUMBERS                         PIC X(10)
                     VALUE '0123456789'.
   10 CCARD-AID                           PIC X(5).
      88  CCARD-AID-ENTER                 VALUE 'ENTER'.
      88  CCARD-AID-PFK03                 VALUE 'PFK03'.
      88  CCARD-AID-PFK05                 VALUE 'PFK05'.
      88  CCARD-AID-PFK12                 VALUE 'PFK12'.
   10  CCARD-NEXT-PROG                    PIC X(8).
   10  CCARD-NEXT-MAPSET                  PIC X(7).
   10  CCARD-NEXT-MAP                     PIC X(7).
   10  CCARD-ERROR-MSG                    PIC X(75).
   10  CCARD-RETURN-MSG                   PIC X(75).
   10 CC-ACCT-ID                          PIC X(11)
                                          VALUE SPACES.
   10 CC-ACCT-ID-N REDEFINES CC-ACCT-ID PIC 9(11).
   10 CC-CARD-NUM                         PIC X(16)
                                          VALUE SPACES.
   10 CC-CARD-NUM-N REDEFINES CC-CARD-NUM PIC 9(16).
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       10 CC-CUST-ID                          PIC X(09)
                                              VALUE SPACES.
       10 CC-CUST-ID-N REDEFINES CC-CUST-ID PIC 9(9).
   01 WS-US-PHONE-AREA-CODE-TO-EDIT PIC XXX.
   01 US-STATE-CODE-TO-EDIT  PIC X(2).
      02 US-STATE-AND-FIRST-ZIP2 PIC X(4).
      02 LAST-3-OF-ZIP          PIC X(3).
   01  LIT-ALL-ALPHA-FROM     PIC X(52) VALUE SPACES.
   01  LIT-ALL-ALPHANUM-FROM  PIC X(62) VALUE SPACES.
   01  LIT-ALL-NUM-FROM       PIC X(10) VALUE SPACES.
   77  LIT-ALPHA-SPACES-TO    PIC X(52) VALUE SPACES.
   77  LIT-NUM-SPACES-TO      PIC X(10) VALUE SPACES.
    05 CCDA-TITLE01    PIC X(40) VALUE
        '       AWS MAINFRAME MODERNIZATION        '.
    05 CCDA-TITLE02    PIC X(40) VALUE
        '                CARDDEMO                  '.
    05 CCDA-THANK-YOU  PIC X(40) VALUE
        'THANK YOU FOR USING CCDA APPLICATION... '.
    02  TRNNAMEL    COMP  PIC  S9(4).
    02  TRNNAMEF    PICTURE X.
      03 TRNNAMEA    PICTURE X.
    02  TRNNAMEI  PIC X(4).
    02  TITLE01L    COMP  PIC  S9(4).
    02  TITLE01F    PICTURE X.
      03 TITLE01A    PICTURE X.
    02  TITLE01I  PIC X(40).
    02  CURDATEL    COMP  PIC  S9(4).
    02  CURDATEF    PICTURE X.
      03 CURDATEA    PICTURE X.
    02  CURDATEI  PIC X(8).
    02  PGMNAMEL    COMP  PIC  S9(4).
    02  PGMNAMEF    PICTURE X.
      03 PGMNAMEA    PICTURE X.
    02  PGMNAMEI  PIC X(8).
    02  TITLE02L    COMP  PIC  S9(4).
    02  TITLE02F    PICTURE X.
      03 TITLE02A    PICTURE X.
    02  TITLE02I  PIC X(40).
    02  CURTIMEL    COMP  PIC  S9(4).
    02  CURTIMEF    PICTURE X.
      03 CURTIMEA    PICTURE X.
    02  CURTIMEI  PIC X(8).
    02  ACCTSIDL    COMP  PIC  S9(4).
    02  ACCTSIDF    PICTURE X.
      03 ACCTSIDA    PICTURE X.
    02  ACCTSIDI  PIC X(11).
    02  ACSTTUSL    COMP  PIC  S9(4).
    02  ACSTTUSF    PICTURE X.
      03 ACSTTUSA    PICTURE X.
    02  ACSTTUSI  PIC X(1).
    02  OPNYEARL    COMP  PIC  S9(4).
    02  OPNYEARF    PICTURE X.
      03 OPNYEARA    PICTURE X.
    02  OPNYEARI  PIC X(4).
    02  OPNMONL     COMP  PIC  S9(4).
    02  OPNMONF    PICTURE X.
      03 OPNMONA    PICTURE X.
    02  OPNMONI  PIC X(2).
    02  OPNDAYL     COMP  PIC  S9(4).
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02  OPNDAYF    PICTURE X.
  03 OPNDAYA    PICTURE X.
02  OPNDAYI  PIC X(2).
02  ACRDLIML   COMP  PIC  S9(4).
02  ACRDLIMF   PICTURE X.
  03 ACRDLIMA    PICTURE X.
02  ACRDLIMI  PIC X(15).
02  EXPYEARL   COMP  PIC  S9(4).
02  EXPYEARF   PICTURE X.
  03 EXPYEARA    PICTURE X.
02  EXPYEARI  PIC X(4).
02  EXPMONL    COMP  PIC  S9(4).
02  EXPMONF    PICTURE X.
  03 EXPMONA    PICTURE X.
02  EXPMONI  PIC X(2).
02  EXPDAYL    COMP  PIC  S9(4).
02  EXPDAYF    PICTURE X.
  03 EXPDAYA    PICTURE X.
02  EXPDAYI  PIC X(2).
02  ACSHLIML   COMP  PIC  S9(4).
02  ACSHLIMF   PICTURE X.
  03 ACSHLIMA    PICTURE X.
02  ACSHLIMI  PIC X(15).
02  RISYEARL   COMP  PIC  S9(4).
02  RISYEARF   PICTURE X.
  03 RISYEARA    PICTURE X.
02  RISYEARI  PIC X(4).
02  RISMONL    COMP  PIC  S9(4).
02  RISMONF    PICTURE X.
  03 RISMONA    PICTURE X.
02  RISMONI  PIC X(2).
02  RISDAYL    COMP  PIC  S9(4).
02  RISDAYF    PICTURE X.
  03 RISDAYA    PICTURE X.
02  RISDAYI  PIC X(2).
02  ACURBALL   COMP  PIC  S9(4).
02  ACURBALF   PICTURE X.
  03 ACURBALA    PICTURE X.
02  ACURBALI  PIC X(15).
02  ACRCYCRL   COMP  PIC  S9(4).
02  ACRCYCRF   PICTURE X.
  03 ACRCYCRA    PICTURE X.
02  ACRCYCRI  PIC X(15).
02  AADDGRPL   COMP  PIC  S9(4).
02  AADDGRPF   PICTURE X.
  03 AADDGRPA    PICTURE X.
02  AADDGRPI  PIC X(10).
02  ACRCYDBL   COMP  PIC  S9(4).
02  ACRCYDBF   PICTURE X.
  03 ACRCYDBA    PICTURE X.
02  ACRCYDBI  PIC X(15).
02  ACSTNUML   COMP  PIC  S9(4).
02  ACSTNUMF   PICTURE X.
  03 ACSTNUMA    PICTURE X.
02  ACSTNUMI  PIC X(9).
02  ACTSSN1L   COMP  PIC  S9(4).
02  ACTSSN1F   PICTURE X.
  03 ACTSSN1A    PICTURE X.
02  ACTSSN1I  PIC X(3).
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02  ACTSSN2L    COMP  PIC  S9(4).
02  ACTSSN2F    PICTURE X.
  03 ACTSSN2A    PICTURE X.
02  ACTSSN2I  PIC X(2).
02  ACTSSN3L    COMP  PIC  S9(4).
02  ACTSSN3F    PICTURE X.
  03 ACTSSN3A    PICTURE X.
02  ACTSSN3I  PIC X(4).
02  DOBYEARL    COMP  PIC  S9(4).
02  DOBYEARF    PICTURE X.
  03 DOBYEARA    PICTURE X.
02  DOBYEARI  PIC X(4).
02  DOBMONL    COMP  PIC  S9(4).
02  DOBMONF    PICTURE X.
  03 DOBMONA    PICTURE X.
02  DOBMONI  PIC X(2).
02  DOBDAYL    COMP  PIC  S9(4).
02  DOBDAYF    PICTURE X.
  03 DOBDAYA    PICTURE X.
02  DOBDAYI  PIC X(2).
02  ACSTFCOL    COMP  PIC  S9(4).
02  ACSTFCOF    PICTURE X.
  03 ACSTFCOA    PICTURE X.
02  ACSTFCOI  PIC X(3).
02  ACSFNAML    COMP  PIC  S9(4).
02  ACSFNAMF    PICTURE X.
  03 ACSFNAMA    PICTURE X.
02  ACSFNAMI  PIC X(25).
02  ACSMNAML    COMP  PIC  S9(4).
02  ACSMNAMF    PICTURE X.
  03 ACSMNAMA    PICTURE X.
02  ACSMNAMI  PIC X(25).
02  ACSLNAML    COMP  PIC  S9(4).
02  ACSLNAMF    PICTURE X.
  03 ACSLNAMA    PICTURE X.
02  ACSLNAMI  PIC X(25).
02  ACSADL1L    COMP  PIC  S9(4).
02  ACSADL1F    PICTURE X.
  03 ACSADL1A    PICTURE X.
02  ACSADL1I  PIC X(50).
02  ACSSTTEL    COMP  PIC  S9(4).
02  ACSSTTEF    PICTURE X.
  03 ACSSTTEA    PICTURE X.
02  ACSSTTEI  PIC X(2).
02  ACSADL2L    COMP  PIC  S9(4).
02  ACSADL2F    PICTURE X.
  03 ACSADL2A    PICTURE X.
02  ACSADL2I  PIC X(50).
02  ACSZIPCL    COMP  PIC  S9(4).
02  ACSZIPCF    PICTURE X.
  03 ACSZIPCA    PICTURE X.
02  ACSZIPCI  PIC X(5).
02  ACSCITYL    COMP  PIC  S9(4).
02  ACSCITYF    PICTURE X.
  03 ACSCITYA    PICTURE X.
02  ACSCITYI  PIC X(50).
02  ACSCTRYL    COMP  PIC  S9(4).
02  ACSCTRYF    PICTURE X.
  03 ACSCTRYA    PICTURE X.
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      02  ACSCTRYI  PIC X(3).
      02  ACSPH1AL    COMP  PIC  S9(4).
      02  ACSPH1AF    PICTURE X.
        03 ACSPH1AA    PICTURE X.
      02  ACSPH1AI  PIC X(3).
      02  ACSPH1BL    COMP  PIC  S9(4).
      02  ACSPH1BF    PICTURE X.
        03 ACSPH1BA    PICTURE X.
      02  ACSPH1BI  PIC X(3).
      02  ACSPH1CL    COMP  PIC  S9(4).
      02  ACSPH1CF    PICTURE X.
        03 ACSPH1CA    PICTURE X.
      02  ACSPH1CI  PIC X(4).
      02  ACSGOVTL    COMP  PIC  S9(4).
      02  ACSGOVTF    PICTURE X.
        03 ACSGOVTA    PICTURE X.
      02  ACSGOVTI  PIC X(20).
      02  ACSPH2AL    COMP  PIC  S9(4).
      02  ACSPH2AF    PICTURE X.
        03 ACSPH2AA    PICTURE X.
      02  ACSPH2AI  PIC X(3).
      02  ACSPH2BL    COMP  PIC  S9(4).
      02  ACSPH2BF    PICTURE X.
        03 ACSPH2BA    PICTURE X.
      02  ACSPH2BI  PIC X(3).
      02  ACSPH2CL    COMP  PIC  S9(4).
      02  ACSPH2CF    PICTURE X.
        03 ACSPH2CA    PICTURE X.
      02  ACSPH2CI  PIC X(4).
      02  ACSEFTCL    COMP  PIC  S9(4).
      02  ACSEFTCF    PICTURE X.
        03 ACSEFTCA    PICTURE X.
      02  ACSEFTCI  PIC X(10).
      02  ACSPFLGL    COMP  PIC  S9(4).
      02  ACSPFLGF    PICTURE X.
        03 ACSPFLGA    PICTURE X.
      02  ACSPFLGI  PIC X(1).
      02  INFOMSGL    COMP  PIC  S9(4).
      02  INFOMSGF    PICTURE X.
        03 INFOMSGA    PICTURE X.
      02  INFOMSGI  PIC X(45).
      02  ERRMSGL    COMP  PIC  S9(4).
      02  ERRMSGF    PICTURE X.
        03 ERRMSGA    PICTURE X.
      02  ERRMSGI  PIC X(78).
      02  FKEYSL    COMP  PIC  S9(4).
      02  FKEYSF    PICTURE X.
        03 FKEYSA    PICTURE X.
      02  FKEYSI  PIC X(21).
      02  FKEY05L    COMP  PIC  S9(4).
      02  FKEY05F    PICTURE X.
        03 FKEY05A    PICTURE X.
      02  FKEY05I  PIC X(7).
      02  FKEY12L    COMP  PIC  S9(4).
      02  FKEY12F    PICTURE X.
        03 FKEY12A    PICTURE X.
      02  FKEY12I  PIC X(10).
  01  CACTUPAO REDEFINES CACTUPAI.
      02  TRNNAMEC    PICTURE X.
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02  TRNNAMEP    PICTURE X.
02  TRNNAMEH    PICTURE X.
02  TRNNAMEV    PICTURE X.
02  TRNNAMEO  PIC X(4).
02  TITLE01C    PICTURE X.
02  TITLE01P    PICTURE X.
02  TITLE01H    PICTURE X.
02  TITLE01V    PICTURE X.
02  TITLE01O  PIC X(40).
02  CURDATEC    PICTURE X.
02  CURDATEP    PICTURE X.
02  CURDATEH    PICTURE X.
02  CURDATEV    PICTURE X.
02  CURDATEO  PIC X(8).
02  PGMNAMEC    PICTURE X.
02  PGMNAMEP    PICTURE X.
02  PGMNAMEH    PICTURE X.
02  PGMNAMEV    PICTURE X.
02  PGMNAMEO  PIC X(8).
02  TITLE02C    PICTURE X.
02  TITLE02P    PICTURE X.
02  TITLE02H    PICTURE X.
02  TITLE02V    PICTURE X.
02  TITLE02O  PIC X(40).
02  CURTIMEC    PICTURE X.
02  CURTIMEP    PICTURE X.
02  CURTIMEH    PICTURE X.
02  CURTIMEV    PICTURE X.
02  CURTIMEO  PIC X(8).
02  ACCTSIDC    PICTURE X.
02  ACCTSIDP    PICTURE X.
02  ACCTSIDH    PICTURE X.
02  ACCTSIDV    PICTURE X.
02  ACCTSIDO  PIC X(11).
02  ACSTTUSC    PICTURE X.
02  ACSTTUSP    PICTURE X.
02  ACSTTUSH    PICTURE X.
02  ACSTTUSV    PICTURE X.
02  ACSTTUSO  PIC X(1).
02  OPNYEARC    PICTURE X.
02  OPNYEARP    PICTURE X.
02  OPNYEARH    PICTURE X.
02  OPNYEARV    PICTURE X.
02  OPNYEARO  PIC X(4).
02  OPNMONC     PICTURE X.
02  OPNMONP     PICTURE X.
02  OPNMONH     PICTURE X.
02  OPNMONV     PICTURE X.
02  OPNMONO  PIC X(2).
02  OPNDAYC     PICTURE X.
02  OPNDAYP     PICTURE X.
02  OPNDAYH     PICTURE X.
02  OPNDAYV     PICTURE X.
02  OPNDAYO  PIC X(2).
02  ACRDLIMC    PICTURE X.
02  ACRDLIMP    PICTURE X.
02  ACRDLIMH    PICTURE X.
02  ACRDLIMV    PICTURE X.
02  ACRDLIMO  PIC X(15).
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02  EXPYEARC    PICTURE X.
02  EXPYEARP    PICTURE X.
02  EXPYEARH    PICTURE X.
02  EXPYEARV    PICTURE X.
02  EXPYEARO  PIC X(4).
02  EXPMONC    PICTURE X.
02  EXPMONP    PICTURE X.
02  EXPMONH    PICTURE X.
02  EXPMONV    PICTURE X.
02  EXPMONO  PIC X(2).
02  EXPDAYC    PICTURE X.
02  EXPDAYP    PICTURE X.
02  EXPDAYH    PICTURE X.
02  EXPDAYV    PICTURE X.
02  EXPDAYO  PIC X(2).
02  ACSHLIMC    PICTURE X.
02  ACSHLIMP    PICTURE X.
02  ACSHLIMH    PICTURE X.
02  ACSHLIMV    PICTURE X.
02  ACSHLIMO  PIC X(15).
02  RISYEARC    PICTURE X.
02  RISYEARP    PICTURE X.
02  RISYEARH    PICTURE X.
02  RISYEARV    PICTURE X.
02  RISYEARO  PIC X(4).
02  RISMONC    PICTURE X.
02  RISMONP    PICTURE X.
02  RISMONH    PICTURE X.
02  RISMONV    PICTURE X.
02  RISMONO  PIC X(2).
02  RISDAYC    PICTURE X.
02  RISDAYP    PICTURE X.
02  RISDAYH    PICTURE X.
02  RISDAYV    PICTURE X.
02  RISDAYO  PIC X(2).
02  ACURBALC    PICTURE X.
02  ACURBALP    PICTURE X.
02  ACURBALH    PICTURE X.
02  ACURBALV    PICTURE X.
02  ACURBALO  PIC X(15).
02  ACRCYCRC    PICTURE X.
02  ACRCYCRP    PICTURE X.
02  ACRCYCRH    PICTURE X.
02  ACRCYCRV    PICTURE X.
02  ACRCYCRO  PIC X(15).
02  AADDGRPC    PICTURE X.
02  AADDGRPP    PICTURE X.
02  AADDGRPH    PICTURE X.
02  AADDGRPV    PICTURE X.
02  AADDGRPO  PIC X(10).
02  ACRCYDBC    PICTURE X.
02  ACRCYDBP    PICTURE X.
02  ACRCYDBH    PICTURE X.
02  ACRCYDBV    PICTURE X.
02  ACRCYDBO  PIC X(15).
02  ACSTNUMC    PICTURE X.
02  ACSTNUMP    PICTURE X.
02  ACSTNUMH    PICTURE X.
02  ACSTNUMV    PICTURE X.
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02  ACSTNUMO  PIC X(9).
02  ACTSSN1C    PICTURE X.
02  ACTSSN1P    PICTURE X.
02  ACTSSN1H    PICTURE X.
02  ACTSSN1V    PICTURE X.
02  ACTSSN1O  PIC X(3).
02  ACTSSN2C    PICTURE X.
02  ACTSSN2P    PICTURE X.
02  ACTSSN2H    PICTURE X.
02  ACTSSN2V    PICTURE X.
02  ACTSSN2O  PIC X(2).
02  ACTSSN3C    PICTURE X.
02  ACTSSN3P    PICTURE X.
02  ACTSSN3H    PICTURE X.
02  ACTSSN3V    PICTURE X.
02  ACTSSN3O  PIC X(4).
02  DOBYEARC    PICTURE X.
02  DOBYEARP    PICTURE X.
02  DOBYEARH    PICTURE X.
02  DOBYEARV    PICTURE X.
02  DOBYEARO  PIC X(4).
02  DOBMONC     PICTURE X.
02  DOBMONP     PICTURE X.
02  DOBMONH     PICTURE X.
02  DOBMONV     PICTURE X.
02  DOBMONO  PIC X(2).
02  DOBDAYC     PICTURE X.
02  DOBDAYP     PICTURE X.
02  DOBDAYH     PICTURE X.
02  DOBDAYV     PICTURE X.
02  DOBDAYO  PIC X(2).
02  ACSTFCOC    PICTURE X.
02  ACSTFCOP    PICTURE X.
02  ACSTFCOH    PICTURE X.
02  ACSTFCOV    PICTURE X.
02  ACSTFCOO  PIC X(3).
02  ACSFNAMC    PICTURE X.
02  ACSFNAMP    PICTURE X.
02  ACSFNAMH    PICTURE X.
02  ACSFNAMV    PICTURE X.
02  ACSFNAMO  PIC X(25).
02  ACSMNAMC    PICTURE X.
02  ACSMNAMP    PICTURE X.
02  ACSMNAMH    PICTURE X.
02  ACSMNAMV    PICTURE X.
02  ACSMNAMO  PIC X(25).
02  ACSLNAMC    PICTURE X.
02  ACSLNAMP    PICTURE X.
02  ACSLNAMH    PICTURE X.
02  ACSLNAMV    PICTURE X.
02  ACSLNAMO  PIC X(25).
02  ACSADL1C    PICTURE X.
02  ACSADL1P    PICTURE X.
02  ACSADL1H    PICTURE X.
02  ACSADL1V    PICTURE X.
02  ACSADL1O  PIC X(50).
02  ACSSTTEC    PICTURE X.
02  ACSSTTEP    PICTURE X.
02  ACSSTTEH    PICTURE X.
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02  ACSSTTEV    PICTURE X.
02  ACSSTTEO  PIC X(2).
02  ACSADL2C    PICTURE X.
02  ACSADL2P    PICTURE X.
02  ACSADL2H    PICTURE X.
02  ACSADL2V    PICTURE X.
02  ACSADL2O  PIC X(50).
02  ACSZIPCC    PICTURE X.
02  ACSZIPCP    PICTURE X.
02  ACSZIPCH    PICTURE X.
02  ACSZIPCV    PICTURE X.
02  ACSZIPCO  PIC X(5).
02  ACSCITYC    PICTURE X.
02  ACSCITYP    PICTURE X.
02  ACSCITYH    PICTURE X.
02  ACSCITYV    PICTURE X.
02  ACSCITYO  PIC X(50).
02  ACSCTRYC    PICTURE X.
02  ACSCTRYP    PICTURE X.
02  ACSCTRYH    PICTURE X.
02  ACSCTRYV    PICTURE X.
02  ACSCTRYO  PIC X(3).
02  ACSPH1AC    PICTURE X.
02  ACSPH1AP    PICTURE X.
02  ACSPH1AH    PICTURE X.
02  ACSPH1AV    PICTURE X.
02  ACSPH1AO  PIC X(3).
02  ACSPH1BC    PICTURE X.
02  ACSPH1BP    PICTURE X.
02  ACSPH1BH    PICTURE X.
02  ACSPH1BV    PICTURE X.
02  ACSPH1BO  PIC X(3).
02  ACSPH1CC    PICTURE X.
02  ACSPH1CP    PICTURE X.
02  ACSPH1CH    PICTURE X.
02  ACSPH1CV    PICTURE X.
02  ACSPH1CO  PIC X(4).
02  ACSGOVTC    PICTURE X.
02  ACSGOVTP    PICTURE X.
02  ACSGOVTH    PICTURE X.
02  ACSGOVTV    PICTURE X.
02  ACSGOVTO  PIC X(20).
02  ACSPH2AC    PICTURE X.
02  ACSPH2AP    PICTURE X.
02  ACSPH2AH    PICTURE X.
02  ACSPH2AV    PICTURE X.
02  ACSPH2AO  PIC X(3).
02  ACSPH2BC    PICTURE X.
02  ACSPH2BP    PICTURE X.
02  ACSPH2BH    PICTURE X.
02  ACSPH2BV    PICTURE X.
02  ACSPH2BO  PIC X(3).
02  ACSPH2CC    PICTURE X.
02  ACSPH2CP    PICTURE X.
02  ACSPH2CH    PICTURE X.
02  ACSPH2CV    PICTURE X.
02  ACSPH2CO  PIC X(4).
02  ACSEFTCC    PICTURE X.
02  ACSEFTCP    PICTURE X.
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02  ACSEFTCH    PICTURE X.
02  ACSEFTCV    PICTURE X.
02  ACSEFTCO  PIC X(10).
02  ACSPFLGC    PICTURE X.
02  ACSPFLGP    PICTURE X.
02  ACSPFLGH    PICTURE X.
02  ACSPFLGV    PICTURE X.
02  ACSPFLGO  PIC X(1).
02  INFOMSGC    PICTURE X.
02  INFOMSGP    PICTURE X.
02  INFOMSGH    PICTURE X.
02  INFOMSGV    PICTURE X.
02  INFOMSGO  PIC X(45).
02  ERRMSGC    PICTURE X.
02  ERRMSGP    PICTURE X.
02  ERRMSGH    PICTURE X.
02  ERRMSGV    PICTURE X.
02  ERRMSGO  PIC X(78).
02  FKEYSC    PICTURE X.
02  FKEYSP    PICTURE X.
02  FKEYSH    PICTURE X.
02  FKEYSV    PICTURE X.
02  FKEYSO  PIC X(21).
02  FKEY05C    PICTURE X.
02  FKEY05P    PICTURE X.
02  FKEY05H    PICTURE X.
02  FKEY05V    PICTURE X.
02  FKEY05O  PIC X(7).
02  FKEY12C    PICTURE X.
02  FKEY12P    PICTURE X.
02  FKEY12H    PICTURE X.
02  FKEY12V    PICTURE X.
02  FKEY12O  PIC X(10).
10  WS-CURDATE.
   15  WS-CURDATE-YEAR        PIC 9(04).
   15  WS-CURDATE-MONTH       PIC 9(02).
   15  WS-CURDATE-DAY         PIC 9(02).
10 WS-CURDATE-N REDEFINES WS-CURDATE PIC 9(08).
10  WS-CURTIME.
   15  WS-CURTIME-HOURS       PIC 9(02).
   15  WS-CURTIME-MINUTE      PIC 9(02).
   15  WS-CURTIME-SECOND      PIC 9(02).
   15  WS-CURTIME-MILSEC      PIC 9(02).
10 WS-CURTIME-N REDEFINES WS-CURTIME PIC 9(08).
10  WS-CURDATE-MM            PIC 9(02).
10  WS-CURDATE-DD            PIC 9(02).
10  WS-CURDATE-YY            PIC 9(02).
10  WS-CURTIME-HH            PIC 9(02).
10  WS-CURTIME-MM            PIC 9(02).
10  WS-CURTIME-SS            PIC 9(02).
10  WS-TIMESTAMP-DT-YYYY     PIC 9(04).
10  WS-TIMESTAMP-DT-MM       PIC 9(02).
10  WS-TIMESTAMP-DT-DD       PIC 9(02).
10  WS-TIMESTAMP-TM-HH       PIC 9(02).
10  WS-TIMESTAMP-TM-MM       PIC 9(02).
10  WS-TIMESTAMP-TM-SS       PIC 9(02).
10  WS-TIMESTAMP-TM-MS6      PIC 9(06).
05 CCDA-MSG-THANK-YOU         PIC X(50) VALUE
      'THANK YOU FOR USING CARDDEMO APPLICATION...      '.
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05 CCDA-MSG-INVALID-KEY       PIC X(50) VALUE
     'INVALID KEY PRESSED. PLEASE SEE BELOW...        '.
05  ABEND-CODE                           PIC X(4)
    VALUE SPACES.
05  ABEND-CULPRIT                        PIC X(8)
    VALUE SPACES.
05  ABEND-REASON                         PIC X(50)
    VALUE SPACES.
05  ABEND-MSG                            PIC X(72)
    VALUE SPACES.
05 SEC-USR-ID               PIC X(08).
05 SEC-USR-FNAME            PIC X(20).
05 SEC-USR-LNAME            PIC X(20).
05 SEC-USR-PWD              PIC X(08).
05 SEC-USR-TYPE             PIC X(01).
05 SEC-USR-FILLER           PIC X(23).
   05  ACCT-ID                           PIC 9(11).
   05  ACCT-ACTIVE-STATUS                PIC X(01).
   05  ACCT-CURR-BAL                     PIC S9(10)V99.
   05  ACCT-CREDIT-LIMIT                 PIC S9(10)V99.
   05  ACCT-CASH-CREDIT-LIMIT            PIC S9(10)V99.
   05  ACCT-OPEN-DATE                    PIC X(10).
   05  ACCT-EXPIRAION-DATE               PIC X(10).
   05  ACCT-REISSUE-DATE                 PIC X(10).
   05  ACCT-CURR-CYC-CREDIT              PIC S9(10)V99.
   05  ACCT-CURR-CYC-DEBIT               PIC S9(10)V99.
   05  ACCT-ADDR-ZIP                     PIC X(10).
   05  ACCT-GROUP-ID                     PIC X(10).
   05  XREF-CARD-NUM                     PIC X(16).
   05  XREF-CUST-ID                      PIC 9(09).
   05  XREF-ACCT-ID                      PIC 9(11).
   05  CUST-ID                           PIC 9(09).
   05  CUST-FIRST-NAME                       PIC X(25).
   05  CUST-MIDDLE-NAME                      PIC X(25).
   05  CUST-LAST-NAME                        PIC X(25).
   05  CUST-ADDR-LINE-1                      PIC X(50).
   05  CUST-ADDR-LINE-2                      PIC X(50).
   05  CUST-ADDR-LINE-3                      PIC X(50).
   05  CUST-ADDR-STATE-CD                    PIC X(02).
   05  CUST-ADDR-COUNTRY-CD                  PIC X(03).
   05  CUST-ADDR-ZIP                         PIC X(10).
   05  CUST-PHONE-NUM-1                      PIC X(15).
   05  CUST-PHONE-NUM-2                      PIC X(15).
   05  CUST-SSN                              PIC 9(09).
   05  CUST-GOVT-ISSUED-ID                   PIC X(20).
   05  CUST-DOB-YYYY-MM-DD                   PIC X(10).
   05  CUST-EFT-ACCOUNT-ID                   PIC X(10).
   05  CUST-PRI-CARD-HOLDER-IND              PIC X(01).
   05  CUST-FICO-CREDIT-SCORE               PIC 9(03).
      10 CDEMO-FROM-TRANID         PIC X(04).
      10 CDEMO-FROM-PROGRAM        PIC X(08).
      10 CDEMO-TO-TRANID           PIC X(04).
      10 CDEMO-TO-PROGRAM          PIC X(08).
      10 CDEMO-USER-ID             PIC X(08).
      10 CDEMO-USER-TYPE           PIC X(01).
      10 CDEMO-PGM-CONTEXT         PIC 9(01).
         88 CDEMO-PGM-ENTER        VALUE 0.
         88 CDEMO-PGM-REENTER      VALUE 1.
      10 CDEMO-CUST-ID             PIC 9(09).
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       10 CDEMO-CUST-FNAME                PIC X(25).
       10 CDEMO-CUST-MNAME                PIC X(25).
       10 CDEMO-CUST-LNAME                PIC X(25).
       10 CDEMO-ACCT-ID                   PIC 9(11).
       10 CDEMO-ACCT-STATUS               PIC X(01).
       10 CDEMO-CARD-NUM                  PIC 9(16).
       10  CDEMO-LAST-MAP                 PIC X(7).
       10  CDEMO-LAST-MAPSET              PIC X(7).
       10 ACUP-CHANGE-ACTION                      PIC X(1)
                                                  VALUE LOW-VALUES.
          88 ACUP-DETAILS-NOT-FETCHED             VALUES
                                                  LOW-VALUES,
                                                  SPACES.
          88 ACUP-CHANGES-MADE                    VALUES 'E', 'N'
                                                       , 'C', 'L'
                                                       , 'F'.
          88 ACUP-CHANGES-OK-NOT-CONFIRMED    VALUE 'N'.
          88 ACUP-CHANGES-OKAYED-AND-DONE     VALUE 'C'.
       10 ACUP-OLD-ACCT-DATA.
          15  ACUP-OLD-ACCT-ID-X              PIC X(11).
          15  ACUP-OLD-ACCT-ID               REDEFINES
              ACUP-OLD-ACCT-ID-X             PIC 9(11).
          15  ACUP-OLD-ACTIVE-STATUS         PIC X(01).
          15  ACUP-OLD-CURR-BAL              PIC X(12).
          15  ACUP-OLD-CURR-BAL-N REDEFINES
              ACUP-OLD-CURR-BAL              PIC S9(10)V99.
          15  ACUP-OLD-CREDIT-LIMIT          PIC X(12).
          15  ACUP-OLD-CREDIT-LIMIT-N        REDEFINES
              ACUP-OLD-CREDIT-LIMIT          PIC S9(10)V99.
          15  ACUP-OLD-CASH-CREDIT-LIMIT     PIC X(12).
          15  ACUP-OLD-CASH-CREDIT-LIMIT-N   REDEFINES
              ACUP-OLD-CASH-CREDIT-LIMIT     PIC S9(10)V99.
          15  ACUP-OLD-OPEN-DATE             PIC X(08).
          15  ACUP-OLD-OPEN-DATE-PARTS       REDEFINES
              ACUP-OLD-OPEN-DATE.
              20 ACUP-OLD-OPEN-YEAR          PIC X(4).
              20 ACUP-OLD-OPEN-MON           PIC X(2).
              20 ACUP-OLD-OPEN-DAY           PIC X(2).
          15  ACUP-OLD-EXPIRAION-DATE        PIC X(08).
          15  ACUP-OLD-EXPIRAION-DATE-PARTS  REDEFINES
              ACUP-OLD-EXPIRAION-DATE.
              20 ACUP-OLD-EXP-YEAR            PIC X(4).
              20 ACUP-OLD-EXP-MON             PIC X(2).
              20 ACUP-OLD-EXP-DAY             PIC X(2).
          15  ACUP-OLD-REISSUE-DATE          PIC X(08).
          15  ACUP-OLD-REISSUE-DATE-PARTS    REDEFINES
              ACUP-OLD-REISSUE-DATE.
              20 ACUP-OLD-REISSUE-YEAR       PIC X(4).
              20 ACUP-OLD-REISSUE-MON        PIC X(2).
              20 ACUP-OLD-REISSUE-DAY        PIC X(2).
          15  ACUP-OLD-CURR-CYC-CREDIT       PIC X(12).
          15  ACUP-OLD-CURR-CYC-CREDIT-N     REDEFINES
              ACUP-OLD-CURR-CYC-CREDIT       PIC S9(10)V99.
          15  ACUP-OLD-CURR-CYC-DEBIT        PIC X(12).
          15  ACUP-OLD-CURR-CYC-DEBIT-N      REDEFINES
              ACUP-OLD-CURR-CYC-DEBIT        PIC S9(10)V99.
          15  ACUP-OLD-GROUP-ID              PIC X(10).
       10 ACUP-OLD-CUST-DATA.
          15  ACUP-OLD-CUST-ID-X                  PIC X(09).
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15  ACUP-OLD-CUST-ID                      REDEFINES
    ACUP-OLD-CUST-ID-X                    PIC 9(09).
15  ACUP-OLD-CUST-FIRST-NAME              PIC X(25).
15  ACUP-OLD-CUST-MIDDLE-NAME             PIC X(25).
15  ACUP-OLD-CUST-LAST-NAME               PIC X(25).
15  ACUP-OLD-CUST-ADDR-LINE-1             PIC X(50).
15  ACUP-OLD-CUST-ADDR-LINE-2             PIC X(50).
15  ACUP-OLD-CUST-ADDR-LINE-3             PIC X(50).
15  ACUP-OLD-CUST-ADDR-STATE-CD           PIC X(02).
15  ACUP-OLD-CUST-ADDR-COUNTRY-CD         PIC X(03).
15  ACUP-OLD-CUST-ADDR-ZIP                PIC X(10).
15  ACUP-OLD-CUST-PHONE-NUM-1             PIC X(15).
15  ACUP-OLD-CUST-PHONE-NUM-1-X REDEFINES
    ACUP-OLD-CUST-PHONE-NUM-1.
    20 ACUP-OLD-CUST-PHONE-NUM-1A         PIC X(3).
    20 ACUP-OLD-CUST-PHONE-NUM-1B         PIC X(3).
    20 ACUP-OLD-CUST-PHONE-NUM-1C         PIC X(4).
15  ACUP-OLD-CUST-PHONE-NUM-2             PIC X(15).
15  ACUP-OLD-CUST-PHONE-NUM-2-X REDEFINES
    ACUP-OLD-CUST-PHONE-NUM-2.
    20 ACUP-OLD-CUST-PHONE-NUM-2A         PIC X(3).
    20 ACUP-OLD-CUST-PHONE-NUM-2B         PIC X(3).
    20 ACUP-OLD-CUST-PHONE-NUM-2C         PIC X(4).
15  ACUP-OLD-CUST-SSN-X                   PIC X(09).
15  ACUP-OLD-CUST-SSN                     REDEFINES
    ACUP-OLD-CUST-SSN-X                   PIC 9(09).
15  ACUP-OLD-CUST-GOVT-ISSUED-ID          PIC X(20).
15  ACUP-OLD-CUST-DOB-YYYY-MM-DD          PIC X(08).
15  ACUP-OLD-CUST-DOB-PARTS               REDEFINES
    ACUP-OLD-CUST-DOB-YYYY-MM-DD.
    20 ACUP-OLD-CUST-DOB-YEAR             PIC X(4).
    20 ACUP-OLD-CUST-DOB-MON              PIC X(2).
    20 ACUP-OLD-CUST-DOB-DAY              PIC X(2).
15  ACUP-OLD-CUST-EFT-ACCOUNT-ID          PIC X(10).
15  ACUP-OLD-CUST-PRI-HOLDER-IND          PIC X(01).
15  ACUP-OLD-CUST-FICO-SCORE-X            PIC X(03).
15  ACUP-OLD-CUST-FICO-SCORE              REDEFINES
    ACUP-OLD-CUST-FICO-SCORE-X            PIC 9(03).
10 ACUP-NEW-ACCT-DATA.
15  ACUP-NEW-ACCT-ID-X                    PIC X(11).
15  ACUP-NEW-ACCT-ID                      REDEFINES
    ACUP-NEW-ACCT-ID-X                    PIC 9(11).
15  ACUP-NEW-ACTIVE-STATUS                PIC X(01).
15  ACUP-NEW-CURR-BAL                     PIC X(12).
15  ACUP-NEW-CURR-BAL-N                   REDEFINES
    ACUP-NEW-CURR-BAL                     PIC S9(10)V99.
15  ACUP-NEW-CREDIT-LIMIT                 PIC X(12).
15  ACUP-NEW-CREDIT-LIMIT-N               REDEFINES
    ACUP-NEW-CREDIT-LIMIT                 PIC S9(10)V99.
15  ACUP-NEW-CASH-CREDIT-LIMIT            PIC X(12).
15  ACUP-NEW-CASH-CREDIT-LIMIT-N          REDEFINES
    ACUP-NEW-CASH-CREDIT-LIMIT            PIC S9(10)V99.
15  ACUP-NEW-OPEN-DATE                    PIC X(08).
15  ACUP-NEW-OPEN-DATE-PARTS              REDEFINES
    ACUP-NEW-OPEN-DATE.
    20 ACUP-NEW-OPEN-YEAR                 PIC X(4).
    20 ACUP-NEW-OPEN-MON                  PIC X(2).
    20 ACUP-NEW-OPEN-DAY                  PIC X(2).
15  ACUP-NEW-EXPIRAION-DATE               PIC X(08).
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    15  ACUP-NEW-EXPIRAION-DATE-PARTS       REDEFINES
        ACUP-NEW-EXPIRAION-DATE.
        20 ACUP-NEW-EXP-YEAR                  PIC X(4).
        20 ACUP-NEW-EXP-MON                   PIC X(2).
        20 ACUP-NEW-EXP-DAY                   PIC X(2).
    15  ACUP-NEW-REISSUE-DATE               PIC X(08).
    15  ACUP-NEW-REISSUE-DATE-PARTS         REDEFINES
        ACUP-NEW-REISSUE-DATE.
        20 ACUP-NEW-REISSUE-YEAR             PIC X(4).
        20 ACUP-NEW-REISSUE-MON              PIC X(2).
        20 ACUP-NEW-REISSUE-DAY              PIC X(2).
    15  ACUP-NEW-CURR-CYC-CREDIT            PIC X(12).
    15  ACUP-NEW-CURR-CYC-CREDIT-N          REDEFINES
        ACUP-NEW-CURR-CYC-CREDIT           PIC S9(10)V99.
    15  ACUP-NEW-CURR-CYC-DEBIT             PIC X(12).
    15  ACUP-NEW-CURR-CYC-DEBIT-N           REDEFINES
        ACUP-NEW-CURR-CYC-DEBIT            PIC S9(10)V99.
    15  ACUP-NEW-GROUP-ID                   PIC X(10).
10 ACUP-NEW-CUST-DATA.
    15  ACUP-NEW-CUST-ID-X                  PIC X(09).
    15  ACUP-NEW-CUST-ID                    REDEFINES
        ACUP-NEW-CUST-ID-X                 PIC 9(09).
    15  ACUP-NEW-CUST-FIRST-NAME            PIC X(25).
    15  ACUP-NEW-CUST-MIDDLE-NAME           PIC X(25).
    15  ACUP-NEW-CUST-LAST-NAME             PIC X(25).
    15  ACUP-NEW-CUST-ADDR-LINE-1           PIC X(50).
    15  ACUP-NEW-CUST-ADDR-LINE-2           PIC X(50).
    15  ACUP-NEW-CUST-ADDR-LINE-3           PIC X(50).
    15  ACUP-NEW-CUST-ADDR-STATE-CD         PIC X(02).
    15  ACUP-NEW-CUST-ADDR-COUNTRY-CD       PIC X(03).
    15  ACUP-NEW-CUST-ADDR-ZIP              PIC X(10).
    15  ACUP-NEW-CUST-PHONE-NUM-1           PIC X(15).
    15  ACUP-NEW-CUST-PHONE-NUM-1-X REDEFINES
        ACUP-NEW-CUST-PHONE-NUM-1.
        20 ACUP-NEW-CUST-PHONE-NUM-1A       PIC X(3).
        20 ACUP-NEW-CUST-PHONE-NUM-1B       PIC X(3).
        20 ACUP-NEW-CUST-PHONE-NUM-1C       PIC X(4).
    15  ACUP-NEW-CUST-PHONE-NUM-2           PIC X(15).
    15  ACUP-NEW-CUST-PHONE-NUM-2-X REDEFINES
        ACUP-NEW-CUST-PHONE-NUM-2.
        20 ACUP-NEW-CUST-PHONE-NUM-2A       PIC X(3).
        20 ACUP-NEW-CUST-PHONE-NUM-2B       PIC X(3).
        20 ACUP-NEW-CUST-PHONE-NUM-2C       PIC X(4).
        20 ACUP-NEW-CUST-SSN-1              PIC X(03).
        20 ACUP-NEW-CUST-SSN-2              PIC X(02).
        20 ACUP-NEW-CUST-SSN-3              PIC X(04).
    15  ACUP-NEW-CUST-SSN                   REDEFINES
        ACUP-NEW-CUST-SSN-X                PIC 9(09).
    15  ACUP-NEW-CUST-GOVT-ISSUED-ID        PIC X(20).
    15  ACUP-NEW-CUST-DOB-YYYY-MM-DD        PIC X(08).
    15  ACUP-NEW-CUST-DOB-PARTS             REDEFINES
        ACUP-NEW-CUST-DOB-YYYY-MM-DD.
        20 ACUP-NEW-CUST-DOB-YEAR           PIC X(4).
        20 ACUP-NEW-CUST-DOB-MON            PIC X(2).
        20 ACUP-NEW-CUST-DOB-DAY            PIC X(2).
    15  ACUP-NEW-CUST-EFT-ACCOUNT-ID        PIC X(10).
    15  ACUP-NEW-CUST-PRI-HOLDER-IND        PIC X(01).
    15  ACUP-NEW-CUST-FICO-SCORE-X          PIC X(03).
    15  ACUP-NEW-CUST-FICO-SCORE            REDEFINES
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                    ACUP-NEW-CUST-FICO-SCORE-X           PIC 9(03).
                    88 FICO-RANGE-IS-VALID               VALUES 300
                                                         THROUGH 850.
        01  WS-COMMAREA                                  PIC X(2000).


Business rule: 0000-MAIN
        0000-MAIN.
            EXEC CICS HANDLE ABEND
                    LABEL(ABEND-ROUTINE)
            END-EXEC
            INITIALIZE CC-WORK-AREA
                       WS-MISC-STORAGE
                       WS-COMMAREA
            MOVE LIT-THISTRANID      TO WS-TRANID
            SET WS-RETURN-MSG-OFF  TO TRUE
            IF EIBCALEN IS EQUAL TO 0
               OR (CDEMO-FROM-PROGRAM = LIT-MENUPGM
                AND NOT CDEMO-PGM-REENTER)
                INITIALIZE CARDDEMO-COMMAREA
                           WS-THIS-PROGCOMMAREA
                SET CDEMO-PGM-ENTER TO TRUE
                SET ACUP-DETAILS-NOT-FETCHED TO TRUE
            ELSE
                MOVE DFHCOMMAREA (1:LENGTH OF CARDDEMO-COMMAREA)  TO
                                 CARDDEMO-COMMAREA
                MOVE DFHCOMMAREA(LENGTH OF CARDDEMO-COMMAREA + 1:
                                 LENGTH OF WS-THIS-PROGCOMMAREA ) TO
                                 WS-THIS-PROGCOMMAREA
            END-IF
            PERFORM YYYY-STORE-PFKEY
               THRU YYYY-STORE-PFKEY-EXIT
            SET PFK-INVALID TO TRUE
            IF CCARD-AID-ENTER OR
               CCARD-AID-PFK03 OR
               (CCARD-AID-PFK05 AND ACUP-CHANGES-OK-NOT-CONFIRMED)
                              OR
               (CCARD-AID-PFK12 AND NOT ACUP-DETAILS-NOT-FETCHED)
                SET PFK-VALID TO TRUE
            END-IF
            IF PFK-INVALID
                SET CCARD-AID-ENTER TO TRUE
            END-IF
            EVALUATE TRUE
                WHEN CCARD-AID-PFK03
                    SET CCARD-AID-PFK03      TO TRUE
                    IF CDEMO-FROM-TRANID     EQUAL LOW-VALUES
                    OR CDEMO-FROM-TRANID     EQUAL SPACES
                       MOVE LIT-MENUTRANID  TO CDEMO-TO-TRANID
                    ELSE
                       MOVE CDEMO-FROM-TRANID  TO CDEMO-TO-TRANID
                    END-IF
                    IF CDEMO-FROM-PROGRAM    EQUAL LOW-VALUES
                    OR CDEMO-FROM-PROGRAM    EQUAL SPACES
                       MOVE LIT-MENUPGM      TO CDEMO-TO-PROGRAM
                    ELSE
                       MOVE CDEMO-FROM-PROGRAM TO CDEMO-TO-PROGRAM
                    END-IF
                    MOVE LIT-THISTRANID     TO CDEMO-FROM-TRANID
                    MOVE LIT-THISPGM        TO CDEMO-FROM-PROGRAM
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                       SET  CDEMO-USRTYP-USER   TO TRUE
                       SET  CDEMO-PGM-ENTER     TO TRUE
                       MOVE LIT-THISMAPSET      TO CDEMO-LAST-MAPSET
                       MOVE LIT-THISMAP         TO CDEMO-LAST-MAP
                       EXEC CICS
                            SYNCPOINT
                       END-EXEC
                       EXEC CICS XCTL
                            PROGRAM (CDEMO-TO-PROGRAM)
                            COMMAREA(CARDDEMO-COMMAREA)
                       END-EXEC
                  WHEN ACUP-DETAILS-NOT-FETCHED
                   AND CDEMO-PGM-ENTER
                  WHEN CDEMO-FROM-PROGRAM    EQUAL LIT-MENUPGM
                   AND NOT CDEMO-PGM-REENTER
                       INITIALIZE WS-THIS-PROGCOMMAREA
                       PERFORM 3000-SEND-MAP THRU
                              3000-SEND-MAP-EXIT
                       SET CDEMO-PGM-REENTER        TO TRUE
                       SET ACUP-DETAILS-NOT-FETCHED TO TRUE
                       GO TO COMMON-RETURN
                  WHEN ACUP-CHANGES-OKAYED-AND-DONE
                  WHEN ACUP-CHANGES-FAILED
                       INITIALIZE WS-THIS-PROGCOMMAREA
                                  WS-MISC-STORAGE
                                  CDEMO-ACCT-ID
                       SET CDEMO-PGM-ENTER             TO TRUE
                       PERFORM 3000-SEND-MAP THRU
                              3000-SEND-MAP-EXIT
                       SET CDEMO-PGM-REENTER         TO TRUE
                       SET ACUP-DETAILS-NOT-FETCHED  TO TRUE
                       GO TO COMMON-RETURN
                  WHEN OTHER
                       PERFORM 1000-PROCESS-INPUTS
                          THRU 1000-PROCESS-INPUTS-EXIT
                       PERFORM 2000-DECIDE-ACTION
                          THRU 2000-DECIDE-ACTION-EXIT
                       PERFORM 3000-SEND-MAP
                          THRU 3000-SEND-MAP-EXIT
                       GO TO COMMON-RETURN
              END-EVALUATE
              .

Business rule: 1100-RECEIVE-MAP
       1100-RECEIVE-MAP.
           EXEC CICS RECEIVE MAP(LIT-THISMAP)
                   MAPSET(LIT-THISMAPSET)
                   INTO(CACTUPAI)
                   RESP(WS-RESP-CD)
                   RESP2(WS-REAS-CD)
           END-EXEC
           INITIALIZE ACUP-NEW-DETAILS
           IF  ACCTSIDI OF CACTUPAI = '*'
           OR  ACCTSIDI OF CACTUPAI = SPACES
               MOVE LOW-VALUES          TO CC-ACCT-ID
                                           ACUP-NEW-ACCT-ID-X
           ELSE
               MOVE ACCTSIDI OF CACTUPAI TO CC-ACCT-ID
                                            ACUP-NEW-ACCT-ID-X
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        END-IF
        IF ACUP-DETAILS-NOT-FETCHED
           GO TO 1100-RECEIVE-MAP-EXIT
        END-IF
        IF  ACSTTUSI OF CACTUPAI = '*'
        OR  ACSTTUSI OF CACTUPAI = SPACES
            MOVE LOW-VALUES            TO ACUP-NEW-ACTIVE-STATUS
        ELSE
            MOVE ACSTTUSI OF CACTUPAI TO ACUP-NEW-ACTIVE-STATUS
        END-IF
        IF  ACRDLIMI OF CACTUPAI = '*'
        OR  ACRDLIMI OF CACTUPAI = SPACES
            MOVE LOW-VALUES            TO ACUP-NEW-CREDIT-LIMIT-X
        ELSE
            MOVE ACRDLIMI OF CACTUPAI TO ACUP-NEW-CREDIT-LIMIT-X
            IF FUNCTION TEST-NUMVAL-C(ACUP-NEW-CREDIT-LIMIT-X) = 0
               COMPUTE ACUP-NEW-CREDIT-LIMIT-N =
                   FUNCTION NUMVAL-C(ACRDLIMI OF CACTUPAI)
            ELSE
               CONTINUE
            END-IF
        END-IF
        IF  ACSHLIMI OF CACTUPAI = '*'
        OR  ACSHLIMI OF CACTUPAI = SPACES
          MOVE LOW-VALUES            TO ACUP-NEW-CASH-CREDIT-LIMIT-X
        ELSE
          MOVE ACSHLIMI OF CACTUPAI TO ACUP-NEW-CASH-CREDIT-LIMIT-X
          IF FUNCTION TEST-NUMVAL-C(ACUP-NEW-CASH-CREDIT-LIMIT-X) = 0
            COMPUTE ACUP-NEW-CASH-CREDIT-LIMIT-N =
                   FUNCTION NUMVAL-C(ACSHLIMI OF CACTUPAI)
          ELSE
             CONTINUE
          END-IF
        END-IF
        IF  ACURBALI OF CACTUPAI = '*'
        OR  ACURBALI OF CACTUPAI = SPACES
            MOVE LOW-VALUES            TO ACUP-NEW-CURR-BAL-X
        ELSE
            MOVE ACURBALI OF CACTUPAI TO ACUP-NEW-CURR-BAL-X
            IF  FUNCTION TEST-NUMVAL-C(ACUP-NEW-CURR-BAL-X) = 0
               COMPUTE ACUP-NEW-CURR-BAL-N =
                   FUNCTION NUMVAL-C(ACUP-NEW-CURR-BAL-X)
            ELSE
               CONTINUE
            END-IF
        END-IF
        IF  ACRCYCRI OF CACTUPAI = '*'
        OR  ACRCYCRI OF CACTUPAI = SPACES
            MOVE LOW-VALUES            TO ACUP-NEW-CURR-CYC-CREDIT-X
        ELSE
            MOVE ACRCYCRI OF CACTUPAI TO ACUP-NEW-CURR-CYC-CREDIT-X
            IF FUNCTION TEST-NUMVAL-C(ACUP-NEW-CURR-CYC-CREDIT-X) = 0
               COMPUTE ACUP-NEW-CURR-CYC-CREDIT-N =
                   FUNCTION NUMVAL-C(ACRCYCRI OF CACTUPAI)
            ELSE
               CONTINUE
            END-IF
        END-IF
        IF  ACRCYDBI OF CACTUPAI = '*'
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    OR   ACRCYDBI OF CACTUPAI = SPACES
         MOVE LOW-VALUES           TO ACUP-NEW-CURR-CYC-DEBIT-X
    ELSE
         MOVE ACRCYDBI OF CACTUPAI TO ACUP-NEW-CURR-CYC-DEBIT-X
         IF  FUNCTION TEST-NUMVAL-C(ACUP-NEW-CURR-CYC-DEBIT-X) = 0
             COMPUTE ACUP-NEW-CURR-CYC-DEBIT-N =
               FUNCTION NUMVAL-C(ACRCYDBI OF CACTUPAI)
         ELSE
             CONTINUE
         END-IF
    END-IF
    IF  OPNYEARI OF CACTUPAI = '*'
    OR  OPNYEARI OF CACTUPAI = SPACES
         MOVE LOW-VALUES           TO ACUP-NEW-OPEN-YEAR
    ELSE
         MOVE OPNYEARI OF CACTUPAI TO ACUP-NEW-OPEN-YEAR
    END-IF
    IF  OPNMONI OF CACTUPAI = '*'
    OR  OPNMONI OF CACTUPAI = SPACES
         MOVE LOW-VALUES           TO ACUP-NEW-OPEN-MON
    ELSE
         MOVE OPNMONI OF CACTUPAI TO  ACUP-NEW-OPEN-MON
    END-IF
    IF  OPNDAYI OF CACTUPAI = '*'
    OR  OPNDAYI OF CACTUPAI = SPACES
         MOVE LOW-VALUES           TO ACUP-NEW-OPEN-DAY
    ELSE
         MOVE OPNDAYI OF CACTUPAI TO  ACUP-NEW-OPEN-DAY
    END-IF
    IF  EXPYEARI OF CACTUPAI = '*'
    OR  EXPYEARI OF CACTUPAI = SPACES
         MOVE LOW-VALUES           TO ACUP-NEW-EXP-YEAR
    ELSE
         MOVE EXPYEARI OF CACTUPAI TO ACUP-NEW-EXP-YEAR
    END-IF
    IF  EXPMONI OF CACTUPAI = '*'
    OR  EXPMONI OF CACTUPAI = SPACES
         MOVE LOW-VALUES           TO ACUP-NEW-EXP-MON
    ELSE
         MOVE EXPMONI OF CACTUPAI TO  ACUP-NEW-EXP-MON
    END-IF
    IF  EXPDAYI OF CACTUPAI = '*'
    OR  EXPDAYI OF CACTUPAI = SPACES
         MOVE LOW-VALUES           TO ACUP-NEW-EXP-DAY
    ELSE
         MOVE EXPDAYI OF CACTUPAI TO  ACUP-NEW-EXP-DAY
    END-IF
    IF  RISYEARI OF CACTUPAI = '*'
    OR  RISYEARI OF CACTUPAI = SPACES
         MOVE LOW-VALUES           TO ACUP-NEW-REISSUE-YEAR
    ELSE
         MOVE RISYEARI OF CACTUPAI TO ACUP-NEW-REISSUE-YEAR
    END-IF
    IF  RISMONI OF CACTUPAI = '*'
    OR  RISMONI OF CACTUPAI = SPACES
         MOVE LOW-VALUES           TO ACUP-NEW-REISSUE-MON
    ELSE
         MOVE RISMONI OF CACTUPAI TO  ACUP-NEW-REISSUE-MON
    END-IF
```

```
IF  RISDAYI OF CACTUPAI = '*'
OR  RISDAYI OF CACTUPAI = SPACES
    MOVE LOW-VALUES            TO ACUP-NEW-REISSUE-DAY
ELSE
    MOVE RISDAYI OF CACTUPAI TO  ACUP-NEW-REISSUE-DAY
END-IF
IF  AADDGRPI OF CACTUPAI = '*'
OR  AADDGRPI OF CACTUPAI = SPACES
    MOVE LOW-VALUES            TO ACUP-NEW-GROUP-ID
ELSE
    MOVE AADDGRPI OF CACTUPAI TO ACUP-NEW-GROUP-ID
END-IF
IF  ACSTNUMI OF CACTUPAI = '*'
OR  ACSTNUMI OF CACTUPAI = SPACES
    MOVE LOW-VALUES            TO ACUP-NEW-CUST-ID-X
ELSE
    MOVE ACSTNUMI OF CACTUPAI TO ACUP-NEW-CUST-ID-X
END-IF
IF  ACTSSN1I OF CACTUPAI = '*'
OR  ACTSSN1I OF CACTUPAI = SPACES
    MOVE LOW-VALUES            TO ACUP-NEW-CUST-SSN-1
ELSE
    MOVE ACTSSN1I OF CACTUPAI TO ACUP-NEW-CUST-SSN-1
END-IF
IF  ACTSSN2I OF CACTUPAI = '*'
OR  ACTSSN2I OF CACTUPAI = SPACES
    MOVE LOW-VALUES            TO ACUP-NEW-CUST-SSN-2
ELSE
    MOVE ACTSSN2I OF CACTUPAI TO ACUP-NEW-CUST-SSN-2
END-IF
IF  ACTSSN3I OF CACTUPAI = '*'
OR  ACTSSN3I OF CACTUPAI = SPACES
    MOVE LOW-VALUES            TO ACUP-NEW-CUST-SSN-3
ELSE
    MOVE ACTSSN3I OF CACTUPAI TO ACUP-NEW-CUST-SSN-3
END-IF
IF  DOBYEARI OF CACTUPAI = '*'
OR  DOBYEARI OF CACTUPAI = SPACES
    MOVE LOW-VALUES            TO ACUP-NEW-CUST-DOB-YEAR
ELSE
    MOVE DOBYEARI OF CACTUPAI TO ACUP-NEW-CUST-DOB-YEAR
END-IF
IF  DOBMONI OF CACTUPAI = '*'
OR  DOBMONI OF CACTUPAI = SPACES
    MOVE LOW-VALUES            TO ACUP-NEW-CUST-DOB-MON
ELSE
    MOVE DOBMONI OF CACTUPAI  TO ACUP-NEW-CUST-DOB-MON
END-IF
IF  DOBDAYI OF CACTUPAI = '*'
OR  DOBDAYI OF CACTUPAI = SPACES
    MOVE LOW-VALUES            TO ACUP-NEW-CUST-DOB-DAY
ELSE
    MOVE DOBDAYI OF CACTUPAI  TO ACUP-NEW-CUST-DOB-DAY
END-IF
IF  ACSTFCOI OF CACTUPAI = '*'
OR  ACSTFCOI OF CACTUPAI = SPACES
    MOVE LOW-VALUES            TO ACUP-NEW-CUST-FICO-SCORE-X
ELSE
    MOVE ACSTFCOI OF CACTUPAI TO ACUP-NEW-CUST-FICO-SCORE-X
```

```
          END-IF
          IF  ACSFNAMI OF CACTUPAI = '*'
          OR  ACSFNAMI OF CACTUPAI = SPACES
              MOVE LOW-VALUES          TO ACUP-NEW-CUST-FIRST-NAME
          ELSE
              MOVE ACSFNAMI OF CACTUPAI TO ACUP-NEW-CUST-FIRST-NAME
          END-IF
          IF  ACSMNAMI OF CACTUPAI = '*'
          OR  ACSMNAMI OF CACTUPAI = SPACES
              MOVE LOW-VALUES          TO ACUP-NEW-CUST-MIDDLE-NAME
          ELSE
              MOVE ACSMNAMI OF CACTUPAI TO ACUP-NEW-CUST-MIDDLE-NAME
          END-IF
          IF  ACSLNAMI OF CACTUPAI = '*'
          OR  ACSLNAMI OF CACTUPAI = SPACES
              MOVE LOW-VALUES          TO ACUP-NEW-CUST-LAST-NAME
          ELSE
              MOVE ACSLNAMI OF CACTUPAI TO ACUP-NEW-CUST-LAST-NAME
          END-IF
          IF  ACSADL1I OF CACTUPAI = '*'
          OR  ACSADL1I OF CACTUPAI = SPACES
              MOVE LOW-VALUES          TO ACUP-NEW-CUST-ADDR-LINE-1
          ELSE
              MOVE ACSADL1I OF CACTUPAI TO ACUP-NEW-CUST-ADDR-LINE-1
          END-IF
          IF  ACSADL2I OF CACTUPAI = '*'
          OR  ACSADL2I OF CACTUPAI = SPACES
              MOVE LOW-VALUES          TO ACUP-NEW-CUST-ADDR-LINE-2
          ELSE
              MOVE ACSADL2I OF CACTUPAI TO ACUP-NEW-CUST-ADDR-LINE-2
          END-IF
          IF  ACSCITYI OF CACTUPAI = '*'
          OR  ACSCITYI OF CACTUPAI = SPACES
              MOVE LOW-VALUES          TO ACUP-NEW-CUST-ADDR-LINE-3
          ELSE
              MOVE ACSCITYI OF CACTUPAI TO ACUP-NEW-CUST-ADDR-LINE-3
          END-IF
          IF  ACSSTTEI OF CACTUPAI = '*'
          OR  ACSSTTEI OF CACTUPAI = SPACES
              MOVE LOW-VALUES          TO ACUP-NEW-CUST-ADDR-STATE-CD
          ELSE
              MOVE ACSSTTEI OF CACTUPAI TO ACUP-NEW-CUST-ADDR-STATE-CD
          END-IF
          IF  ACSCTRYI OF CACTUPAI = '*'
          OR  ACSCTRYI OF CACTUPAI = SPACES
             MOVE LOW-VALUES          TO ACUP-NEW-CUST-ADDR-COUNTRY-CD
          ELSE
             MOVE ACSCTRYI OF CACTUPAI TO ACUP-NEW-CUST-ADDR-COUNTRY-CD
          END-IF
          IF  ACSZIPCI OF CACTUPAI = '*'
          OR  ACSZIPCI OF CACTUPAI = SPACES
              MOVE LOW-VALUES          TO ACUP-NEW-CUST-ADDR-ZIP
          ELSE
              MOVE ACSZIPCI OF CACTUPAI TO ACUP-NEW-CUST-ADDR-ZIP
          END-IF
          IF  ACSPH1AI OF CACTUPAI = '*'
          OR  ACSPH1AI OF CACTUPAI = SPACES
              MOVE LOW-VALUES          TO ACUP-NEW-CUST-PHONE-NUM-1A
          ELSE
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            MOVE ACSPH1AI OF CACTUPAI TO ACUP-NEW-CUST-PHONE-NUM-1A
         END-IF
         IF  ACSPH1BI OF CACTUPAI = '*'
         OR  ACSPH1BI OF CACTUPAI = SPACES
             MOVE LOW-VALUES          TO ACUP-NEW-CUST-PHONE-NUM-1B
         ELSE
             MOVE ACSPH1BI OF CACTUPAI TO ACUP-NEW-CUST-PHONE-NUM-1B
         END-IF
         IF  ACSPH1CI OF CACTUPAI = '*'
         OR  ACSPH1CI OF CACTUPAI = SPACES
             MOVE LOW-VALUES          TO ACUP-NEW-CUST-PHONE-NUM-1C
         ELSE
             MOVE ACSPH1CI OF CACTUPAI TO ACUP-NEW-CUST-PHONE-NUM-1C
         END-IF
         IF  ACSPH2AI OF CACTUPAI = '*'
         OR  ACSPH2AI OF CACTUPAI = SPACES
             MOVE LOW-VALUES          TO ACUP-NEW-CUST-PHONE-NUM-2A
         ELSE
             MOVE ACSPH2AI OF CACTUPAI TO ACUP-NEW-CUST-PHONE-NUM-2A
         END-IF
         IF  ACSPH2BI OF CACTUPAI = '*'
         OR  ACSPH2BI OF CACTUPAI = SPACES
             MOVE LOW-VALUES          TO ACUP-NEW-CUST-PHONE-NUM-2B
         ELSE
             MOVE ACSPH2BI OF CACTUPAI TO ACUP-NEW-CUST-PHONE-NUM-2B
         END-IF
         IF  ACSPH2CI OF CACTUPAI = '*'
         OR  ACSPH2CI OF CACTUPAI = SPACES
             MOVE LOW-VALUES          TO ACUP-NEW-CUST-PHONE-NUM-2C
         ELSE
             MOVE ACSPH2CI OF CACTUPAI TO ACUP-NEW-CUST-PHONE-NUM-2C
         END-IF
         IF  ACSGOVTI OF CACTUPAI = '*'
         OR  ACSGOVTI OF CACTUPAI = SPACES
             MOVE LOW-VALUES          TO ACUP-NEW-CUST-GOVT-ISSUED-ID
         ELSE
             MOVE ACSGOVTI OF CACTUPAI TO ACUP-NEW-CUST-GOVT-ISSUED-ID
         END-IF
         IF  ACSEFTCI OF CACTUPAI = '*'
         OR  ACSEFTCI OF CACTUPAI = SPACES
             MOVE LOW-VALUES          TO ACUP-NEW-CUST-EFT-ACCOUNT-ID
         ELSE
             MOVE ACSEFTCI OF CACTUPAI TO ACUP-NEW-CUST-EFT-ACCOUNT-ID
         END-IF
         IF  ACSPFLGI OF CACTUPAI = '*'
         OR  ACSPFLGI OF CACTUPAI = SPACES
             MOVE LOW-VALUES          TO ACUP-NEW-CUST-PRI-HOLDER-IND
         ELSE
             MOVE ACSPFLGI OF CACTUPAI  TO ACUP-NEW-CUST-PRI-HOLDER-IND
         END-IF
             .

 Business rule: 1200-EDIT-MAP-INPUTS
       1200-EDIT-MAP-INPUTS.
         SET INPUT-OK                 TO TRUE
         IF  ACUP-DETAILS-NOT-FETCHED
             PERFORM 1210-EDIT-ACCOUNT
                THRU 1210-EDIT-ACCOUNT-EXIT
             MOVE LOW-VALUES          TO ACUP-OLD-ACCT-DATA
```

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        IF  FLG-ACCTFILTER-BLANK
            SET NO-SEARCH-CRITERIA-RECEIVED TO TRUE
        END-IF
        GO TO 1200-EDIT-MAP-INPUTS-EXIT
    ELSE
        CONTINUE
    END-IF
    SET FOUND-ACCOUNT-DATA        TO TRUE
    SET FOUND-ACCT-IN-MASTER      TO TRUE
    SET FLG-ACCTFILTER-ISVALID    TO TRUE
    SET FOUND-CUST-IN-MASTER      TO TRUE
    SET FLG-CUSTFILTER-ISVALID    TO TRUE
    PERFORM 1205-COMPARE-OLD-NEW
        THRU 1205-COMPARE-OLD-NEW-EXIT
    IF  NO-CHANGES-FOUND
    OR  ACUP-CHANGES-OK-NOT-CONFIRMED
    OR  ACUP-CHANGES-OKAYED-AND-DONE
        MOVE LOW-VALUES            TO WS-NON-KEY-FLAGS
        GO TO 1200-EDIT-MAP-INPUTS-EXIT
    END-IF
    SET ACUP-CHANGES-NOT-OK       TO TRUE
    MOVE 'ACCOUNT STATUS'         TO WS-EDIT-VARIABLE-NAME
    MOVE ACUP-NEW-ACTIVE-STATUS   TO WS-EDIT-YES-NO
    PERFORM 1220-EDIT-YESNO
        THRU 1220-EDIT-YESNO-EXIT
    MOVE WS-EDIT-YES-NO           TO WS-EDIT-ACCT-STATUS
    MOVE 'OPEN DATE'              TO WS-EDIT-VARIABLE-NAME
    MOVE ACUP-NEW-OPEN-DATE       TO WS-EDIT-DATE-CCYYMMDD
    PERFORM EDIT-DATE-CCYYMMDD
        THRU EDIT-DATE-CCYYMMDD-EXIT
    MOVE WS-EDIT-DATE-FLGS        TO WS-EDIT-OPEN-DATE-FLGS
    MOVE 'CREDIT LIMIT'           TO WS-EDIT-VARIABLE-NAME
    MOVE ACUP-NEW-CREDIT-LIMIT-X  TO WS-EDIT-SIGNED-NUMBER-9V2-X
    PERFORM 1250-EDIT-SIGNED-9V2
        THRU 1250-EDIT-SIGNED-9V2-EXIT
    MOVE WS-FLG-SIGNED-NUMBER-EDIT  TO WS-EDIT-CREDIT-LIMIT
    MOVE 'EXPIRY DATE'            TO WS-EDIT-VARIABLE-NAME
    MOVE ACUP-NEW-EXPIRAION-DATE  TO WS-EDIT-DATE-CCYYMMDD
    PERFORM EDIT-DATE-CCYYMMDD
        THRU EDIT-DATE-CCYYMMDD-EXIT
    MOVE WS-EDIT-DATE-FLGS        TO WS-EXPIRY-DATE-FLGS
    MOVE 'CASH CREDIT LIMIT'      TO WS-EDIT-VARIABLE-NAME
    MOVE ACUP-NEW-CASH-CREDIT-LIMIT-X
                                  TO WS-EDIT-SIGNED-NUMBER-9V2-X
    PERFORM 1250-EDIT-SIGNED-9V2
        THRU 1250-EDIT-SIGNED-9V2-EXIT
    MOVE WS-FLG-SIGNED-NUMBER-EDIT TO WS-EDIT-CASH-CREDIT-LIMIT
    MOVE 'REISSUE DATE'           TO WS-EDIT-VARIABLE-NAME
    MOVE ACUP-NEW-REISSUE-DATE    TO WS-EDIT-DATE-CCYYMMDD
    PERFORM EDIT-DATE-CCYYMMDD
        THRU EDIT-DATE-CCYYMMDD-EXIT
    MOVE WS-EDIT-DATE-FLGS        TO WS-EDIT-REISSUE-DATE-FLGS
    MOVE 'CURRENT BALANCE'        TO WS-EDIT-VARIABLE-NAME
    MOVE ACUP-NEW-CURR-BAL-X      TO WS-EDIT-SIGNED-NUMBER-9V2-X
    PERFORM 1250-EDIT-SIGNED-9V2
        THRU 1250-EDIT-SIGNED-9V2-EXIT
    MOVE WS-FLG-SIGNED-NUMBER-EDIT  TO WS-EDIT-CURR-BAL
    MOVE 'CURRENT CYCLE CREDIT LIMIT' TO WS-EDIT-VARIABLE-NAME
    MOVE ACUP-NEW-CURR-CYC-CREDIT-X
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                                        TO WS-EDIT-SIGNED-NUMBER-9V2-X
           PERFORM 1250-EDIT-SIGNED-9V2
              THRU 1250-EDIT-SIGNED-9V2-EXIT
           MOVE WS-FLG-SIGNED-NUMBER-EDIT   TO WS-EDIT-CURR-CYC-CREDIT
           MOVE 'CURRENT CYCLE DEBIT LIMIT' TO WS-EDIT-VARIABLE-NAME
           MOVE ACUP-NEW-CURR-CYC-DEBIT-X
                                        TO WS-EDIT-SIGNED-NUMBER-9V2-X
           PERFORM 1250-EDIT-SIGNED-9V2
              THRU 1250-EDIT-SIGNED-9V2-EXIT
           MOVE WS-FLG-SIGNED-NUMBER-EDIT   TO WS-EDIT-CURR-CYC-DEBIT
           MOVE 'SSN'                   TO WS-EDIT-VARIABLE-NAME
           PERFORM 1265-EDIT-US-SSN
              THRU 1265-EDIT-US-SSN-EXIT
           MOVE 'DATE OF BIRTH'         TO WS-EDIT-VARIABLE-NAME
           MOVE   ACUP-NEW-CUST-DOB-YYYY-MM-DD
                                        TO WS-EDIT-DATE-CCYYMMDD
           PERFORM EDIT-DATE-CCYYMMDD
              THRU EDIT-DATE-CCYYMMDD-EXIT
           MOVE WS-EDIT-DATE-FLGS       TO WS-EDIT-DT-OF-BIRTH-FLGS
           IF WS-EDIT-DT-OF-BIRTH-ISVALID
              PERFORM  EDIT-DATE-OF-BIRTH
                 THRU  EDIT-DATE-OF-BIRTH-EXIT
              MOVE WS-EDIT-DATE-FLGS    TO WS-EDIT-DT-OF-BIRTH-FLGS
           END-IF
           MOVE 'FICO SCORE'            TO WS-EDIT-VARIABLE-NAME
           MOVE ACUP-NEW-CUST-FICO-SCORE-X
                                        TO WS-EDIT-ALPHANUM-ONLY
           MOVE 3                       TO WS-EDIT-ALPHANUM-LENGTH
           PERFORM 1245-EDIT-NUM-REQD
              THRU 1245-EDIT-NUM-REQD-EXIT
           MOVE WS-EDIT-ALPHANUM-ONLY-FLAGS
                                        TO WS-EDIT-FICO-SCORE-FLGS
           IF FLG-FICO-SCORE-ISVALID
              PERFORM  1275-EDIT-FICO-SCORE
                 THRU  1275-EDIT-FICO-SCORE-EXIT
           END-IF
           MOVE 'FIRST NAME'            TO WS-EDIT-VARIABLE-NAME
           MOVE ACUP-NEW-CUST-FIRST-NAME TO WS-EDIT-ALPHANUM-ONLY
           MOVE 25                      TO WS-EDIT-ALPHANUM-LENGTH
           PERFORM 1225-EDIT-ALPHA-REQD
              THRU 1225-EDIT-ALPHA-REQD-EXIT
           MOVE WS-EDIT-ALPHA-ONLY-FLAGS
                                        TO WS-EDIT-FIRST-NAME-FLGS
           MOVE 'MIDDLE NAME'           TO WS-EDIT-VARIABLE-NAME
           MOVE ACUP-NEW-CUST-MIDDLE-NAME TO WS-EDIT-ALPHANUM-ONLY
           MOVE 25                      TO WS-EDIT-ALPHANUM-LENGTH
           PERFORM 1235-EDIT-ALPHA-OPT
              THRU 1235-EDIT-ALPHA-OPT-EXIT
           MOVE WS-EDIT-ALPHA-ONLY-FLAGS
                                        TO WS-EDIT-MIDDLE-NAME-FLGS
           MOVE 'LAST NAME'             TO WS-EDIT-VARIABLE-NAME
           MOVE ACUP-NEW-CUST-LAST-NAME  TO WS-EDIT-ALPHANUM-ONLY
           MOVE 25                      TO WS-EDIT-ALPHANUM-LENGTH
           PERFORM 1225-EDIT-ALPHA-REQD
              THRU 1225-EDIT-ALPHA-REQD-EXIT
           MOVE WS-EDIT-ALPHA-ONLY-FLAGS
                                        TO WS-EDIT-LAST-NAME-FLGS
           MOVE 'ADDRESS LINE 1'        TO WS-EDIT-VARIABLE-NAME
           MOVE ACUP-NEW-CUST-ADDR-LINE-1 TO WS-EDIT-ALPHANUM-ONLY
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MOVE 50                         TO WS-EDIT-ALPHANUM-LENGTH
PERFORM 1215-EDIT-MANDATORY
   THRU 1215-EDIT-MANDATORY-EXIT
MOVE WS-EDIT-MANDATORY-FLAGS
                                TO WS-EDIT-ADDRESS-LINE-1-FLGS
MOVE 'STATE'                    TO WS-EDIT-VARIABLE-NAME
MOVE ACUP-NEW-CUST-ADDR-STATE-CD TO WS-EDIT-ALPHANUM-ONLY
MOVE 2                          TO WS-EDIT-ALPHANUM-LENGTH
PERFORM 1225-EDIT-ALPHA-REQD
   THRU 1225-EDIT-ALPHA-REQD-EXIT
MOVE WS-EDIT-ALPHA-ONLY-FLAGS
                                TO WS-EDIT-STATE-FLGS
IF FLG-ALPHA-ISVALID
PERFORM 1270-EDIT-US-STATE-CD
   THRU 1270-EDIT-US-STATE-CD-EXIT
END-IF
MOVE 'ZIP'                      TO WS-EDIT-VARIABLE-NAME
MOVE ACUP-NEW-CUST-ADDR-ZIP     TO WS-EDIT-ALPHANUM-ONLY
MOVE 5                          TO WS-EDIT-ALPHANUM-LENGTH
PERFORM 1245-EDIT-NUM-REQD
   THRU 1245-EDIT-NUM-REQD-EXIT
MOVE WS-EDIT-ALPHANUM-ONLY-FLAGS
                                TO WS-EDIT-ZIPCODE-FLGS
MOVE 'CITY'                     TO WS-EDIT-VARIABLE-NAME
MOVE ACUP-NEW-CUST-ADDR-LINE-3 TO WS-EDIT-ALPHANUM-ONLY
MOVE 50                         TO WS-EDIT-ALPHANUM-LENGTH
PERFORM 1225-EDIT-ALPHA-REQD
   THRU 1225-EDIT-ALPHA-REQD-EXIT
MOVE WS-EDIT-ALPHA-ONLY-FLAGS
                                TO WS-EDIT-CITY-FLGS
MOVE 'COUNTRY'                  TO WS-EDIT-VARIABLE-NAME
MOVE ACUP-NEW-CUST-ADDR-COUNTRY-CD
                                TO WS-EDIT-ALPHANUM-ONLY
MOVE 3                          TO WS-EDIT-ALPHANUM-LENGTH
PERFORM 1225-EDIT-ALPHA-REQD
   THRU 1225-EDIT-ALPHA-REQD-EXIT
MOVE WS-EDIT-ALPHA-ONLY-FLAGS
                                TO WS-EDIT-COUNTRY-FLGS
MOVE 'PHONE NUMBER 1'           TO WS-EDIT-VARIABLE-NAME
MOVE ACUP-NEW-CUST-PHONE-NUM-1
                                TO WS-EDIT-US-PHONE-NUM
PERFORM 1260-EDIT-US-PHONE-NUM
   THRU 1260-EDIT-US-PHONE-NUM-EXIT
MOVE WS-EDIT-US-PHONE-NUM-FLGS
                                TO  WS-EDIT-PHONE-NUM-1-FLGS
MOVE 'PHONE NUMBER 2'           TO WS-EDIT-VARIABLE-NAME
MOVE ACUP-NEW-CUST-PHONE-NUM-2
                                TO WS-EDIT-US-PHONE-NUM
PERFORM 1260-EDIT-US-PHONE-NUM
   THRU 1260-EDIT-US-PHONE-NUM-EXIT
MOVE WS-EDIT-US-PHONE-NUM-FLGS
                                TO WS-EDIT-PHONE-NUM-2-FLGS
MOVE 'EFT ACCOUNT ID'           TO WS-EDIT-VARIABLE-NAME
MOVE ACUP-NEW-CUST-EFT-ACCOUNT-ID
                                TO WS-EDIT-ALPHANUM-ONLY
MOVE 10                         TO WS-EDIT-ALPHANUM-LENGTH
PERFORM 1245-EDIT-NUM-REQD
   THRU 1245-EDIT-NUM-REQD-EXIT
MOVE WS-EDIT-ALPHANUM-ONLY-FLAGS
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                                    TO WS-EFT-ACCOUNT-ID-FLGS
           MOVE 'PRIMARY CARD HOLDER'    TO WS-EDIT-VARIABLE-NAME
           MOVE ACUP-NEW-CUST-PRI-HOLDER-IND
                                    TO WS-EDIT-YES-NO
           PERFORM 1220-EDIT-YESNO
              THRU 1220-EDIT-YESNO-EXIT
           MOVE WS-EDIT-YES-NO            TO WS-EDIT-PRI-CARDHOLDER
           IF  FLG-STATE-ISVALID
           AND FLG-ZIPCODE-ISVALID
               PERFORM 1280-EDIT-US-STATE-ZIP-CD
                  THRU 1280-EDIT-US-STATE-ZIP-CD-EXIT
           END-IF
           IF INPUT-ERROR
               CONTINUE
           ELSE
               SET ACUP-CHANGES-OK-NOT-CONFIRMED TO TRUE
           END-IF
           .

Business rule: 1205-COMPARE-OLD-NEW
       1205-COMPARE-OLD-NEW.
           SET NO-CHANGES-FOUND        TO TRUE
           IF  ACUP-NEW-ACCT-ID-X       = ACUP-OLD-ACCT-ID-X
           AND FUNCTION UPPER-CASE (
               ACUP-NEW-ACTIVE-STATUS)    =
               FUNCTION UPPER-CASE (
               ACUP-OLD-ACTIVE-STATUS)
           AND ACUP-NEW-CURR-BAL         = ACUP-OLD-CURR-BAL
           AND ACUP-NEW-CREDIT-LIMIT     = ACUP-OLD-CREDIT-LIMIT
           AND ACUP-NEW-CASH-CREDIT-LIMIT = ACUP-OLD-CASH-CREDIT-LIMIT
           AND ACUP-NEW-OPEN-DATE        = ACUP-OLD-OPEN-DATE
           AND ACUP-NEW-EXPIRAION-DATE   = ACUP-OLD-EXPIRAION-DATE
           AND ACUP-NEW-REISSUE-DATE     = ACUP-OLD-REISSUE-DATE
           AND ACUP-NEW-CURR-CYC-CREDIT  = ACUP-OLD-CURR-CYC-CREDIT
           AND ACUP-NEW-CURR-CYC-DEBIT   = ACUP-OLD-CURR-CYC-DEBIT
           AND FUNCTION UPPER-CASE (
               FUNCTION TRIM (ACUP-NEW-GROUP-ID))=
               FUNCTION UPPER-CASE (
               FUNCTION TRIM (ACUP-OLD-GROUP-ID))
               CONTINUE
           ELSE
               SET CHANGE-HAS-OCCURRED   TO TRUE
               GO TO 1205-COMPARE-OLD-NEW-EXIT
           END-IF
           IF  FUNCTION UPPER-CASE (
               FUNCTION TRIM (ACUP-NEW-CUST-ID-X))=
               FUNCTION UPPER-CASE (
               FUNCTION TRIM (ACUP-OLD-CUST-ID-X))
           AND FUNCTION UPPER-CASE (
               FUNCTION TRIM (ACUP-NEW-CUST-FIRST-NAME))=
               FUNCTION UPPER-CASE (
               FUNCTION TRIM (ACUP-OLD-CUST-FIRST-NAME))
           AND FUNCTION UPPER-CASE (
               FUNCTION TRIM (ACUP-NEW-CUST-MIDDLE-NAME))=
               FUNCTION UPPER-CASE (
               FUNCTION TRIM (ACUP-OLD-CUST-MIDDLE-NAME))
           AND FUNCTION UPPER-CASE (
               FUNCTION TRIM (ACUP-NEW-CUST-LAST-NAME))=
               FUNCTION UPPER-CASE (
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                    FUNCTION TRIM (ACUP-OLD-CUST-LAST-NAME))
             AND FUNCTION UPPER-CASE (
                    FUNCTION TRIM (ACUP-NEW-CUST-ADDR-LINE-1))=
                    FUNCTION UPPER-CASE (
                    FUNCTION TRIM (ACUP-OLD-CUST-ADDR-LINE-1))
             AND FUNCTION UPPER-CASE (
                    FUNCTION TRIM (ACUP-NEW-CUST-ADDR-LINE-2))=
                    FUNCTION UPPER-CASE (
                    FUNCTION TRIM (ACUP-OLD-CUST-ADDR-LINE-2))
             AND FUNCTION UPPER-CASE (
                    FUNCTION TRIM (ACUP-NEW-CUST-ADDR-LINE-3))=
                    FUNCTION UPPER-CASE (
                    FUNCTION TRIM (ACUP-OLD-CUST-ADDR-LINE-3))
             AND FUNCTION UPPER-CASE (
                    FUNCTION TRIM (ACUP-NEW-CUST-ADDR-STATE-CD))=
                    FUNCTION UPPER-CASE (
                    FUNCTION TRIM (ACUP-OLD-CUST-ADDR-STATE-CD))
             AND FUNCTION UPPER-CASE (
                    FUNCTION TRIM (ACUP-NEW-CUST-ADDR-COUNTRY-CD))=
                    FUNCTION UPPER-CASE (
                    FUNCTION TRIM (ACUP-OLD-CUST-ADDR-COUNTRY-CD))
             AND FUNCTION UPPER-CASE (
                    FUNCTION TRIM (ACUP-NEW-CUST-ADDR-ZIP))=
                    FUNCTION UPPER-CASE (
                    FUNCTION TRIM (ACUP-OLD-CUST-ADDR-ZIP))
             AND ACUP-NEW-CUST-PHONE-NUM-1A = ACUP-OLD-CUST-PHONE-NUM-1A
             AND ACUP-NEW-CUST-PHONE-NUM-1B = ACUP-OLD-CUST-PHONE-NUM-1B
             AND ACUP-NEW-CUST-PHONE-NUM-1C = ACUP-OLD-CUST-PHONE-NUM-1C
             AND ACUP-NEW-CUST-PHONE-NUM-2A = ACUP-OLD-CUST-PHONE-NUM-2A
             AND ACUP-NEW-CUST-PHONE-NUM-2B = ACUP-OLD-CUST-PHONE-NUM-2B
             AND ACUP-NEW-CUST-PHONE-NUM-2C = ACUP-OLD-CUST-PHONE-NUM-2C
             AND ACUP-NEW-CUST-SSN-X        = ACUP-OLD-CUST-SSN-X
             AND FUNCTION UPPER-CASE (
                    FUNCTION TRIM (ACUP-NEW-CUST-GOVT-ISSUED-ID ))=
                    FUNCTION UPPER-CASE (
                    FUNCTION TRIM (ACUP-OLD-CUST-GOVT-ISSUED-ID))
             AND ACUP-NEW-CUST-DOB-YYYY-MM-DD
                                    = ACUP-OLD-CUST-DOB-YYYY-MM-DD
             AND ACUP-NEW-CUST-EFT-ACCOUNT-ID
                                    = ACUP-OLD-CUST-EFT-ACCOUNT-ID
             AND FUNCTION UPPER-CASE (
                    FUNCTION TRIM (ACUP-NEW-CUST-PRI-HOLDER-IND))=
                    FUNCTION UPPER-CASE (
                    FUNCTION TRIM (ACUP-OLD-CUST-PRI-HOLDER-IND))
             AND ACUP-NEW-CUST-FICO-SCORE-X
                                    = ACUP-OLD-CUST-FICO-SCORE-X
                 SET NO-CHANGES-DETECTED   TO TRUE
             ELSE
                 SET CHANGE-HAS-OCCURRED   TO TRUE
                 GO TO 1205-COMPARE-OLD-NEW-EXIT
             END-IF
                 .

Business rule: EDIT-AREA-CODE
         EDIT-AREA-CODE.
             IF WS-EDIT-US-PHONE-NUMA EQUAL SPACES
             OR WS-EDIT-US-PHONE-NUMA EQUAL LOW-VALUES
                 SET INPUT-ERROR                TO TRUE
                 SET FLG-EDIT-US-PHONEA-BLANK   TO TRUE
```

```
           IF WS-RETURN-MSG-OFF
              STRING
                 FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
                 DELIMITED BY SIZE
                 INTO WS-RETURN-MSG
              END-STRING
           END-IF
           GO TO  EDIT-US-PHONE-PREFIX
        ELSE
           CONTINUE
        END-IF
        IF  WS-EDIT-US-PHONE-NUMA        IS NUMERIC
           CONTINUE
        ELSE
           SET INPUT-ERROR                  TO TRUE
           SET  FLG-EDIT-US-PHONEA-NOT-OK  TO TRUE
           IF WS-RETURN-MSG-OFF
              STRING
                 FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
                 DELIMITED BY SIZE
                 INTO WS-RETURN-MSG
              END-STRING
           END-IF
           GO TO  EDIT-US-PHONE-PREFIX
        END-IF
        IF  WS-EDIT-US-PHONE-NUMA-N = 0
           SET INPUT-ERROR               TO TRUE
           SET  FLG-EDIT-US-PHONEA-NOT-OK  TO TRUE
           IF WS-RETURN-MSG-OFF
              STRING
                 FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
                 DELIMITED BY SIZE
                 INTO WS-RETURN-MSG
              END-STRING
           END-IF
           GO TO  EDIT-US-PHONE-PREFIX
        ELSE
           CONTINUE
        END-IF
        MOVE FUNCTION TRIM (WS-EDIT-US-PHONE-NUMA)
          TO WS-US-PHONE-AREA-CODE-TO-EDIT
        IF VALID-GENERAL-PURP-CODE
            CONTINUE
        ELSE
           SET INPUT-ERROR               TO TRUE
           SET  FLG-EDIT-US-PHONEA-NOT-OK  TO TRUE
           IF WS-RETURN-MSG-OFF
              STRING
                 FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
                 DELIMITED BY SIZE
                 INTO WS-RETURN-MSG
              END-STRING
           END-IF
           GO TO  EDIT-US-PHONE-PREFIX
        END-IF
        SET FLG-EDIT-US-PHONEA-ISVALID    TO TRUE
           .

Business rule: 2000-DECIDE-ACTION
```

```
      2000-DECIDE-ACTION.
          EVALUATE TRUE
            WHEN ACUP-DETAILS-NOT-FETCHED
            WHEN CCARD-AID-PFK12
                IF  FLG-ACCTFILTER-ISVALID
                    SET WS-RETURN-MSG-OFF        TO TRUE
                    PERFORM 9000-READ-ACCT
                       THRU 9000-READ-ACCT-EXIT
                    IF FOUND-CUST-IN-MASTER
                       SET ACUP-SHOW-DETAILS    TO TRUE
                    END-IF
                END-IF
            WHEN ACUP-SHOW-DETAILS
                IF INPUT-ERROR
                OR NO-CHANGES-DETECTED
                   CONTINUE
                ELSE
                   SET ACUP-CHANGES-OK-NOT-CONFIRMED TO TRUE
                END-IF
            WHEN ACUP-CHANGES-NOT-OK
                 CONTINUE
            WHEN ACUP-CHANGES-OK-NOT-CONFIRMED
             AND CCARD-AID-PFK05
                PERFORM 9600-WRITE-PROCESSING
                   THRU 9600-WRITE-PROCESSING-EXIT
                EVALUATE TRUE
                    WHEN COULD-NOT-LOCK-ACCT-FOR-UPDATE
                         SET ACUP-CHANGES-OKAYED-LOCK-ERROR TO TRUE
                    WHEN LOCKED-BUT-UPDATE-FAILED
                       SET ACUP-CHANGES-OKAYED-BUT-FAILED TO TRUE
                    WHEN DATA-WAS-CHANGED-BEFORE-UPDATE
                         SET ACUP-SHOW-DETAILS            TO TRUE
                    WHEN OTHER
                         SET ACUP-CHANGES-OKAYED-AND-DONE   TO TRUE
                END-EVALUATE
            WHEN ACUP-CHANGES-OK-NOT-CONFIRMED
                 CONTINUE
            WHEN ACUP-CHANGES-OKAYED-AND-DONE
                SET ACUP-SHOW-DETAILS TO TRUE
                IF CDEMO-FROM-TRANID    EQUAL LOW-VALUES
                OR CDEMO-FROM-TRANID    EQUAL SPACES
                    MOVE ZEROES        TO CDEMO-ACCT-ID
                                          CDEMO-CARD-NUM
                    MOVE LOW-VALUES    TO CDEMO-ACCT-STATUS
                END-IF
            WHEN OTHER
                 MOVE LIT-THISPGM    TO ABEND-CULPRIT
                 MOVE '0001'         TO ABEND-CODE
                 MOVE SPACES         TO ABEND-REASON
                 MOVE 'UNEXPECTED DATA SCENARIO'
                                     TO ABEND-MSG
                 PERFORM ABEND-ROUTINE
                    THRU ABEND-ROUTINE-EXIT
          END-EVALUATE
           .

  Business rule: 3201-SHOW-INITIAL-VALUES
        3201-SHOW-INITIAL-VALUES.
            MOVE LOW-VALUES                     TO  ACSTTUSO OF CACTUPAO
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                                          ACRDLIMO OF CACTUPAO
                                          ACURBALO OF CACTUPAO
                                          ACSHLIMO OF CACTUPAO
                                          ACRCYCRO OF CACTUPAO
                                          ACRCYDBO OF CACTUPAO
                                          OPNYEARO OF CACTUPAO
                                          OPNMONO  OF CACTUPAO
                                          OPNDAYO  OF CACTUPAO
                                          EXPYEARO OF CACTUPAO
                                          EXPMONO  OF CACTUPAO
                                          EXPDAYO  OF CACTUPAO
                                          RISYEARO OF CACTUPAO
                                          RISMONO  OF CACTUPAO
                                          RISDAYO  OF CACTUPAO
                                          AADDGRPO OF CACTUPAO
                                          ACSTNUMO OF CACTUPAO
                                          ACTSSN1O OF CACTUPAO
                                          ACTSSN2O OF CACTUPAO
                                          ACTSSN3O OF CACTUPAO
                                          ACSTFCOO OF CACTUPAO
                                          DOBYEARO OF CACTUPAO
                                          DOBMONO  OF CACTUPAO
                                          DOBDAYO  OF CACTUPAO
                                          ACSFNAMO OF CACTUPAO
                                          ACSMNAMO OF CACTUPAO
                                          ACSLNAMO OF CACTUPAO
                                          ACSADL1O OF CACTUPAO
                                          ACSADL2O OF CACTUPAO
                                          ACSCITYO OF CACTUPAO
                                          ACSSTTEO OF CACTUPAO
                                          ACSZIPCO OF CACTUPAO
                                          ACSCTRYO OF CACTUPAO
                                          ACSPH1AO OF CACTUPAO
                                          ACSPH1BO OF CACTUPAO
                                          ACSPH1CO OF CACTUPAO
                                          ACSPH2AO OF CACTUPAO
                                          ACSPH2BO OF CACTUPAO
                                          ACSPH2CO OF CACTUPAO
                                          ACSGOVTO OF CACTUPAO
                                          ACSEFTCO OF CACTUPAO
                                          ACSPFLGO OF CACTUPAO
         .

Business rule: 3202-SHOW-ORIGINAL-VALUES
       3202-SHOW-ORIGINAL-VALUES.
           MOVE LOW-VALUES                     TO WS-NON-KEY-FLAGS
           SET PROMPT-FOR-CHANGES              TO TRUE
           IF FOUND-ACCT-IN-MASTER
           OR FOUND-CUST-IN-MASTER
               MOVE ACUP-OLD-ACTIVE-STATUS     TO ACSTTUSO OF CACTUPAO
               MOVE ACUP-OLD-CURR-BAL-N        TO WS-EDIT-CURRENCY-9-2-F
               MOVE WS-EDIT-CURRENCY-9-2-F     TO ACURBALO OF CACTUPAO
               MOVE ACUP-OLD-CREDIT-LIMIT-N    TO WS-EDIT-CURRENCY-9-2-F
               MOVE WS-EDIT-CURRENCY-9-2-F     TO ACRDLIMO OF CACTUPAO
               MOVE ACUP-OLD-CASH-CREDIT-LIMIT-N
                                               TO WS-EDIT-CURRENCY-9-2-F
               MOVE WS-EDIT-CURRENCY-9-2-F     TO ACSHLIMO OF CACTUPAO
               MOVE ACUP-OLD-CURR-CYC-CREDIT-N TO WS-EDIT-CURRENCY-9-2-F
               MOVE WS-EDIT-CURRENCY-9-2-F     TO ACRCYCRO OF CACTUPAO
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              MOVE ACUP-OLD-CURR-CYC-DEBIT-N    TO WS-EDIT-CURRENCY-9-2-F
              MOVE WS-EDIT-CURRENCY-9-2-F       TO ACRCYDBO OF CACTUPAO
              MOVE ACUP-OLD-OPEN-YEAR           TO OPNYEARO OF CACTUPAO
              MOVE ACUP-OLD-OPEN-MON            TO OPNMONO  OF CACTUPAO
              MOVE ACUP-OLD-OPEN-DAY            TO OPNDAYO  OF CACTUPAO
              MOVE ACUP-OLD-EXP-YEAR            TO EXPYEARO OF CACTUPAO
              MOVE ACUP-OLD-EXP-MON             TO EXPMONO  OF CACTUPAO
              MOVE ACUP-OLD-EXP-DAY             TO EXPDAYO  OF CACTUPAO
              MOVE ACUP-OLD-REISSUE-YEAR        TO RISYEARO OF CACTUPAO
              MOVE ACUP-OLD-REISSUE-MON         TO RISMONO  OF CACTUPAO
              MOVE ACUP-OLD-REISSUE-DAY         TO RISDAYO  OF CACTUPAO
              MOVE ACUP-OLD-GROUP-ID            TO AADDGRPO OF CACTUPAO
          END-IF
          IF FOUND-CUST-IN-MASTER
              MOVE ACUP-OLD-CUST-ID-X           TO ACSTNUMO OF CACTUPAO
              MOVE ACUP-OLD-CUST-SSN-X(1:3)     TO ACTSSN1O OF CACTUPAO
              MOVE ACUP-OLD-CUST-SSN-X(4:2)     TO ACTSSN2O OF CACTUPAO
              MOVE ACUP-OLD-CUST-SSN-X(6:4)     TO ACTSSN3O OF CACTUPAO
              MOVE ACUP-OLD-CUST-FICO-SCORE-X   TO ACSTFCOO OF CACTUPAO
              MOVE ACUP-OLD-CUST-DOB-YEAR       TO DOBYEARO OF CACTUPAO
              MOVE ACUP-OLD-CUST-DOB-MON        TO DOBMONO  OF CACTUPAO
              MOVE ACUP-OLD-CUST-DOB-DAY        TO DOBDAYO  OF CACTUPAO
              MOVE ACUP-OLD-CUST-FIRST-NAME     TO ACSFNAMO OF CACTUPAO
              MOVE ACUP-OLD-CUST-MIDDLE-NAME    TO ACSMNAMO OF CACTUPAO
              MOVE ACUP-OLD-CUST-LAST-NAME      TO ACSLNAMO OF CACTUPAO
              MOVE ACUP-OLD-CUST-ADDR-LINE-1    TO ACSADL1O OF CACTUPAO
              MOVE ACUP-OLD-CUST-ADDR-LINE-2    TO ACSADL2O OF CACTUPAO
              MOVE ACUP-OLD-CUST-ADDR-LINE-3    TO ACSCITYO OF CACTUPAO
              MOVE ACUP-OLD-CUST-ADDR-STATE-CD  TO ACSSTTEO OF CACTUPAO
              MOVE ACUP-OLD-CUST-ADDR-ZIP       TO ACSZIPCO OF CACTUPAO
              MOVE ACUP-OLD-CUST-ADDR-COUNTRY-CD
                                                TO ACSCTRYO OF CACTUPAO
              MOVE ACUP-OLD-CUST-PHONE-NUM-1(2:3)
                                                TO ACSPH1AO OF CACTUPAO
              MOVE ACUP-OLD-CUST-PHONE-NUM-1(6:3)
                                                TO ACSPH1BO OF CACTUPAO
              MOVE ACUP-OLD-CUST-PHONE-NUM-1(10:4)
                                                TO ACSPH1CO OF CACTUPAO
              MOVE ACUP-OLD-CUST-PHONE-NUM-2(2:3)
                                                TO ACSPH2AO OF CACTUPAO
              MOVE ACUP-OLD-CUST-PHONE-NUM-2(6:3)
                                                TO ACSPH2BO OF CACTUPAO
              MOVE ACUP-OLD-CUST-PHONE-NUM-2(10:4)
                                                TO ACSPH2CO OF CACTUPAO
              MOVE ACUP-OLD-CUST-GOVT-ISSUED-ID
                                                TO ACSGOVTO OF CACTUPAO
              MOVE ACUP-OLD-CUST-EFT-ACCOUNT-ID
                                                TO ACSEFTCO OF CACTUPAO
              MOVE ACUP-OLD-CUST-PRI-HOLDER-IND
                                                TO ACSPFLGO OF CACTUPAO
          END-IF
          .

 Business rule: 3203-SHOW-UPDATED-VALUES
       3203-SHOW-UPDATED-VALUES.
          MOVE ACUP-NEW-ACTIVE-STATUS           TO ACSTTUSO OF CACTUPAO
          IF FLG-CRED-LIMIT-ISVALID
              MOVE ACUP-NEW-CREDIT-LIMIT-N       TO WS-EDIT-CURRENCY-9-2-F
              MOVE WS-EDIT-CURRENCY-9-2-F        TO ACRDLIMO OF CACTUPAO
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         ELSE
            MOVE ACUP-NEW-CREDIT-LIMIT-X     TO ACRDLIMO OF CACTUPAO
         END-IF
         IF FLG-CASH-CREDIT-LIMIT-ISVALID
            MOVE ACUP-NEW-CASH-CREDIT-LIMIT-N
                                             TO WS-EDIT-CURRENCY-9-2-F
            MOVE WS-EDIT-CURRENCY-9-2-F      TO ACSHLIMO OF CACTUPAO
         ELSE
            MOVE ACUP-NEW-CASH-CREDIT-LIMIT-X
                                             TO ACSHLIMO OF CACTUPAO
         END-IF
         IF FLG-CURR-BAL-ISVALID
            MOVE ACUP-NEW-CURR-BAL-N         TO WS-EDIT-CURRENCY-9-2-F
            MOVE WS-EDIT-CURRENCY-9-2-F      TO ACURBALO OF CACTUPAO
         ELSE
            MOVE ACUP-NEW-CURR-BAL-X         TO ACURBALO OF CACTUPAO
         END-IF
         IF FLG-CURR-CYC-CREDIT-ISVALID
            MOVE ACUP-NEW-CURR-CYC-CREDIT-N  TO WS-EDIT-CURRENCY-9-2-F
            MOVE WS-EDIT-CURRENCY-9-2-F      TO ACRCYCRO OF CACTUPAO
         ELSE
            MOVE ACUP-NEW-CURR-CYC-CREDIT-X  TO ACRCYCRO OF CACTUPAO
         END-IF
         IF FLG-CURR-CYC-DEBIT-ISVALID
            MOVE ACUP-NEW-CURR-CYC-DEBIT-N   TO WS-EDIT-CURRENCY-9-2-F
            MOVE WS-EDIT-CURRENCY-9-2-F      TO ACRCYDBO OF CACTUPAO
         ELSE
            MOVE ACUP-NEW-CURR-CYC-DEBIT-X   TO ACRCYDBO OF CACTUPAO
         END-IF
         MOVE ACUP-NEW-OPEN-YEAR             TO OPNYEARO OF CACTUPAO
         MOVE ACUP-NEW-OPEN-MON              TO OPNMONO  OF CACTUPAO
         MOVE ACUP-NEW-OPEN-DAY              TO OPNDAYO  OF CACTUPAO
         MOVE ACUP-NEW-EXP-YEAR              TO EXPYEARO OF CACTUPAO
         MOVE ACUP-NEW-EXP-MON               TO EXPMONO  OF CACTUPAO
         MOVE ACUP-NEW-EXP-DAY               TO EXPDAYO  OF CACTUPAO
         MOVE ACUP-NEW-REISSUE-YEAR          TO RISYEARO OF CACTUPAO
         MOVE ACUP-NEW-REISSUE-MON           TO RISMONO  OF CACTUPAO
         MOVE ACUP-NEW-REISSUE-DAY           TO RISDAYO  OF CACTUPAO
         MOVE ACUP-NEW-GROUP-ID              TO AADDGRPO OF CACTUPAO
         MOVE ACUP-NEW-CUST-ID-X             TO ACSTNUMO OF CACTUPAO
         MOVE ACUP-NEW-CUST-SSN-1            TO ACTSSN1O OF CACTUPAO
         MOVE ACUP-NEW-CUST-SSN-2            TO ACTSSN2O OF CACTUPAO
         MOVE ACUP-NEW-CUST-SSN-3            TO ACTSSN3O OF CACTUPAO
         MOVE ACUP-NEW-CUST-FICO-SCORE-X     TO ACSTFCOO OF CACTUPAO
         MOVE ACUP-NEW-CUST-DOB-YEAR         TO DOBYEARO OF CACTUPAO
         MOVE ACUP-NEW-CUST-DOB-MON          TO DOBMONO  OF CACTUPAO
         MOVE ACUP-NEW-CUST-DOB-DAY          TO DOBDAYO  OF CACTUPAO
         MOVE ACUP-NEW-CUST-FIRST-NAME       TO ACSFNAMO OF CACTUPAO
         MOVE ACUP-NEW-CUST-MIDDLE-NAME      TO ACSMNAMO OF CACTUPAO
         MOVE ACUP-NEW-CUST-LAST-NAME        TO ACSLNAMO OF CACTUPAO
         MOVE ACUP-NEW-CUST-ADDR-LINE-1      TO ACSADL1O OF CACTUPAO
         MOVE ACUP-NEW-CUST-ADDR-LINE-2      TO ACSADL2O OF CACTUPAO
         MOVE ACUP-NEW-CUST-ADDR-LINE-3      TO ACSCITYO OF CACTUPAO
         MOVE ACUP-NEW-CUST-ADDR-STATE-CD    TO ACSSTTEO OF CACTUPAO
         MOVE ACUP-NEW-CUST-ADDR-ZIP         TO ACSZIPCO OF CACTUPAO
         MOVE ACUP-NEW-CUST-ADDR-COUNTRY-CD  TO ACSCTRYO OF CACTUPAO
         MOVE ACUP-NEW-CUST-PHONE-NUM-1A     TO ACSPH1AO OF CACTUPAO
         MOVE ACUP-NEW-CUST-PHONE-NUM-1B     TO ACSPH1BO OF CACTUPAO
         MOVE ACUP-NEW-CUST-PHONE-NUM-1C     TO ACSPH1CO OF CACTUPAO
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                MOVE ACUP-NEW-CUST-PHONE-NUM-2A      TO ACSPH2AO OF CACTUPAO
                MOVE ACUP-NEW-CUST-PHONE-NUM-2B      TO ACSPH2BO OF CACTUPAO
                MOVE ACUP-NEW-CUST-PHONE-NUM-2C      TO ACSPH2CO OF CACTUPAO
                MOVE ACUP-NEW-CUST-GOVT-ISSUED-ID    TO ACSGOVTO OF CACTUPAO
                MOVE ACUP-NEW-CUST-EFT-ACCOUNT-ID    TO ACSEFTCO OF CACTUPAO
                MOVE ACUP-NEW-CUST-PRI-HOLDER-IND    TO ACSPFLGO OF CACTUPAO
                .

Business rule: 3300-SETUP-SCREEN-ATTRS
         3300-SETUP-SCREEN-ATTRS.
             PERFORM 3310-PROTECT-ALL-ATTRS
                THRU 3310-PROTECT-ALL-ATTRS-EXIT
             EVALUATE TRUE
                WHEN ACUP-DETAILS-NOT-FETCHED
                     MOVE DFHBMFSE      TO ACCTSIDA OF CACTUPAI
                WHEN  ACUP-SHOW-DETAILS
                WHEN  ACUP-CHANGES-NOT-OK
                     PERFORM 3320-UNPROTECT-FEW-ATTRS
                        THRU 3320-UNPROTECT-FEW-ATTRS-EXIT
                WHEN ACUP-CHANGES-OK-NOT-CONFIRMED
                WHEN ACUP-CHANGES-OKAYED-AND-DONE
                     CONTINUE
                WHEN OTHER
                     MOVE DFHBMFSE      TO ACCTSIDA OF CACTUPAI
             END-EVALUATE
             EVALUATE TRUE
                WHEN FOUND-ACCOUNT-DATA
                WHEN NO-CHANGES-DETECTED
                     MOVE -1            TO ACSTTUSL OF CACTUPAI
                WHEN FLG-ACCTFILTER-NOT-OK
                WHEN FLG-ACCTFILTER-BLANK
                     MOVE -1            TO ACCTSIDL OF CACTUPAI
                WHEN FLG-ACCT-STATUS-NOT-OK
                WHEN FLG-ACCT-STATUS-BLANK
                     MOVE -1            TO ACSTTUSL OF CACTUPAI
                WHEN FLG-OPEN-YEAR-NOT-OK
                WHEN FLG-OPEN-YEAR-BLANK
                     MOVE -1            TO OPNYEARL OF CACTUPAI
                WHEN FLG-OPEN-MONTH-NOT-OK
                WHEN FLG-OPEN-MONTH-BLANK
                     MOVE -1            TO OPNMONL  OF CACTUPAI
                WHEN FLG-OPEN-DAY-NOT-OK
                WHEN FLG-OPEN-DAY-BLANK
                     MOVE -1            TO OPNDAYL  OF CACTUPAI
                WHEN FLG-CRED-LIMIT-NOT-OK
                WHEN FLG-CRED-LIMIT-BLANK
                     MOVE -1            TO ACRDLIML OF CACTUPAI
                WHEN FLG-EXPIRY-YEAR-NOT-OK
                WHEN FLG-EXPIRY-YEAR-BLANK
                     MOVE -1            TO EXPYEARL OF CACTUPAI
                WHEN FLG-EXPIRY-MONTH-NOT-OK
                WHEN FLG-EXPIRY-MONTH-BLANK
                     MOVE -1            TO EXPMONL  OF CACTUPAI
                WHEN FLG-EXPIRY-DAY-NOT-OK
                WHEN FLG-EXPIRY-DAY-BLANK
                     MOVE -1            TO EXPDAYL  OF CACTUPAI
                WHEN FLG-CASH-CREDIT-LIMIT-NOT-OK
                WHEN FLG-CASH-CREDIT-LIMIT-BLANK
                     MOVE -1            TO ACSHLIML OF CACTUPAI
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            WHEN FLG-REISSUE-YEAR-NOT-OK
            WHEN FLG-REISSUE-YEAR-BLANK
                MOVE -1              TO RISYEARL OF CACTUPAI
            WHEN FLG-REISSUE-MONTH-NOT-OK
            WHEN FLG-REISSUE-MONTH-BLANK
                MOVE -1              TO RISMONL  OF CACTUPAI
            WHEN FLG-REISSUE-DAY-NOT-OK
            WHEN FLG-REISSUE-DAY-BLANK
                MOVE -1              TO RISDAYL  OF CACTUPAI
            WHEN FLG-CURR-BAL-NOT-OK
            WHEN FLG-CURR-BAL-BLANK
                MOVE -1              TO ACURBALL OF CACTUPAI
            WHEN FLG-CURR-CYC-CREDIT-NOT-OK
            WHEN FLG-CURR-CYC-CREDIT-BLANK
                MOVE -1              TO ACRCYCRL OF CACTUPAI
            WHEN FLG-CURR-CYC-DEBIT-NOT-OK
            WHEN FLG-CURR-CYC-DEBIT-BLANK
                MOVE -1              TO ACRCYDBL OF CACTUPAI
            WHEN FLG-EDIT-US-SSN-PART1-NOT-OK
            WHEN FLG-EDIT-US-SSN-PART1-BLANK
                MOVE -1              TO ACTSSN1L OF CACTUPAI
            WHEN FLG-EDIT-US-SSN-PART2-NOT-OK
            WHEN FLG-EDIT-US-SSN-PART2-BLANK
                MOVE -1              TO ACTSSN2L  OF CACTUPAI
            WHEN FLG-EDIT-US-SSN-PART3-NOT-OK
            WHEN FLG-EDIT-US-SSN-PART3-BLANK
                MOVE -1              TO ACTSSN3L  OF CACTUPAI
            WHEN FLG-DT-OF-BIRTH-YEAR-NOT-OK
            WHEN FLG-DT-OF-BIRTH-YEAR-BLANK
                MOVE -1              TO DOBYEARL OF CACTUPAI
            WHEN FLG-DT-OF-BIRTH-MONTH-NOT-OK
            WHEN FLG-DT-OF-BIRTH-MONTH-BLANK
                MOVE -1              TO DOBMONL  OF CACTUPAI
            WHEN FLG-DT-OF-BIRTH-DAY-NOT-OK
            WHEN FLG-DT-OF-BIRTH-DAY-BLANK
                MOVE -1              TO DOBDAYL  OF CACTUPAI
            WHEN FLG-FICO-SCORE-NOT-OK
            WHEN FLG-FICO-SCORE-BLANK
                MOVE -1              TO ACSTFCOL OF CACTUPAI
            WHEN FLG-FIRST-NAME-NOT-OK
            WHEN FLG-FIRST-NAME-BLANK
                MOVE -1              TO ACSFNAML OF CACTUPAI
            WHEN FLG-MIDDLE-NAME-NOT-OK
                MOVE -1              TO ACSMNAML OF CACTUPAI
            WHEN FLG-LAST-NAME-NOT-OK
            WHEN FLG-LAST-NAME-BLANK
                MOVE -1              TO ACSLNAML OF CACTUPAI
            WHEN FLG-ADDRESS-LINE-1-NOT-OK
            WHEN FLG-ADDRESS-LINE-1-BLANK
                MOVE -1              TO ACSADL1L OF CACTUPAI
            WHEN FLG-STATE-NOT-OK
            WHEN FLG-STATE-BLANK
                MOVE -1              TO ACSSTTEL OF CACTUPAI
            WHEN FLG-ZIPCODE-NOT-OK
            WHEN FLG-ZIPCODE-BLANK
                MOVE -1              TO ACSZIPCL OF CACTUPAI
            WHEN FLG-CITY-NOT-OK
            WHEN FLG-CITY-BLANK
                MOVE -1              TO ACSCITYL OF CACTUPAI
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        WHEN FLG-COUNTRY-NOT-OK
        WHEN FLG-COUNTRY-BLANK
            MOVE -1              TO ACSCTRYL OF CACTUPAI
        WHEN FLG-PHONE-NUM-1A-NOT-OK
        WHEN FLG-PHONE-NUM-1A-BLANK
            MOVE -1              TO ACSPH1AL OF CACTUPAI
        WHEN FLG-PHONE-NUM-1B-NOT-OK
        WHEN FLG-PHONE-NUM-1B-BLANK
            MOVE -1              TO ACSPH1BL OF CACTUPAI
        WHEN FLG-PHONE-NUM-1C-NOT-OK
        WHEN FLG-PHONE-NUM-1C-BLANK
            MOVE -1              TO ACSPH1CL OF CACTUPAI
        WHEN FLG-PHONE-NUM-2A-NOT-OK
        WHEN FLG-PHONE-NUM-2A-BLANK
            MOVE -1              TO ACSPH2AL OF CACTUPAI
        WHEN FLG-PHONE-NUM-2B-NOT-OK
        WHEN FLG-PHONE-NUM-2B-BLANK
            MOVE -1              TO ACSPH2BL OF CACTUPAI
        WHEN FLG-PHONE-NUM-2C-NOT-OK
        WHEN FLG-PHONE-NUM-2C-BLANK
            MOVE -1              TO ACSPH2CL OF CACTUPAI
        WHEN FLG-EFT-ACCOUNT-ID-NOT-OK
        WHEN FLG-EFT-ACCOUNT-ID-BLANK
            MOVE -1              TO ACSEFTCL OF CACTUPAI
        WHEN FLG-PRI-CARDHOLDER-NOT-OK
        WHEN FLG-PRI-CARDHOLDER-BLANK
            MOVE -1              TO ACSPFLGL OF CACTUPAI
        WHEN OTHER
            MOVE -1              TO ACCTSIDL OF CACTUPAI
     END-EVALUATE
    IF CDEMO-LAST-MAPSET   EQUAL LIT-CCLISTMAPSET
        MOVE DFHDFCOL           TO ACCTSIDC OF CACTUPAO
    END-IF
    IF FLG-ACCTFILTER-NOT-OK
        MOVE DFHRED             TO ACCTSIDC OF CACTUPAO
    END-IF
    IF  FLG-ACCTFILTER-BLANK
    AND CDEMO-PGM-REENTER
        MOVE '*'                TO ACCTSIDO OF CACTUPAO
        MOVE DFHRED             TO ACCTSIDC OF CACTUPAO
    END-IF
    IF ACUP-DETAILS-NOT-FETCHED
    OR FLG-ACCTFILTER-BLANK
    OR FLG-ACCTFILTER-NOT-OK
        GO TO 3300-SETUP-SCREEN-ATTRS-EXIT
    ELSE
        CONTINUE
    END-IF
    IF (FLG-(TESTVAR1)-NOT-OK
    OR  FLG-(TESTVAR1)-BLANK)
    AND CDEMO-PGM-REENTER
        MOVE DFHRED             TO
            (SCRNVAR2)C OF (MAPNAME3)O
        IF  FLG-(TESTVAR1)-BLANK
            MOVE '*'            TO
            (SCRNVAR2)O OF (MAPNAME3)O
        END-IF
    END-IF
      ==(TESTVAR1)== BY ==ACCT-STATUS==
```

```
              ==(SCRNVAR2)== BY ==ACSTTUS==
              ==(MAPNAME3)== BY ==CACTUPA== .
      IF (FLG-(TESTVAR1)-NOT-OK
      OR  FLG-(TESTVAR1)-BLANK)
      AND CDEMO-PGM-REENTER
            MOVE DFHRED              TO
                (SCRNVAR2)C OF (MAPNAME3)O
            IF  FLG-(TESTVAR1)-BLANK
                MOVE '*'              TO
                (SCRNVAR2)O OF (MAPNAME3)O
            END-IF
      END-IF
              ==(TESTVAR1)== BY ==OPEN-YEAR==
              ==(SCRNVAR2)== BY ==OPNYEAR==
              ==(MAPNAME3)== BY ==CACTUPA== .
      IF (FLG-(TESTVAR1)-NOT-OK
      OR  FLG-(TESTVAR1)-BLANK)
      AND CDEMO-PGM-REENTER
            MOVE DFHRED              TO
                (SCRNVAR2)C OF (MAPNAME3)O
            IF  FLG-(TESTVAR1)-BLANK
                MOVE '*'              TO
                (SCRNVAR2)O OF (MAPNAME3)O
            END-IF
      END-IF
              ==(TESTVAR1)== BY ==OPEN-MONTH==
              ==(SCRNVAR2)== BY ==OPNMON==
              ==(MAPNAME3)== BY ==CACTUPA== .
      IF (FLG-(TESTVAR1)-NOT-OK
      OR  FLG-(TESTVAR1)-BLANK)
      AND CDEMO-PGM-REENTER
            MOVE DFHRED              TO
                (SCRNVAR2)C OF (MAPNAME3)O
            IF  FLG-(TESTVAR1)-BLANK
                MOVE '*'              TO
                (SCRNVAR2)O OF (MAPNAME3)O
            END-IF
      END-IF
              ==(TESTVAR1)== BY ==OPEN-DAY==
              ==(SCRNVAR2)== BY ==OPNDAY==
              ==(MAPNAME3)== BY ==CACTUPA== .
      IF (FLG-(TESTVAR1)-NOT-OK
      OR  FLG-(TESTVAR1)-BLANK)
      AND CDEMO-PGM-REENTER
            MOVE DFHRED              TO
                (SCRNVAR2)C OF (MAPNAME3)O
            IF  FLG-(TESTVAR1)-BLANK
                MOVE '*'              TO
                (SCRNVAR2)O OF (MAPNAME3)O
            END-IF
      END-IF
              ==(TESTVAR1)== BY ==CRED-LIMIT==
              ==(SCRNVAR2)== BY ==ACRDLIM==
              ==(MAPNAME3)== BY ==CACTUPA== .
      IF (FLG-(TESTVAR1)-NOT-OK
      OR  FLG-(TESTVAR1)-BLANK)
      AND CDEMO-PGM-REENTER
            MOVE DFHRED              TO
                (SCRNVAR2)C OF (MAPNAME3)O
```

```
            IF  FLG-(TESTVAR1)-BLANK
                MOVE '*'           TO
                  (SCRNVAR2)O OF (MAPNAME3)O
            END-IF
        END-IF
          ==(TESTVAR1)== BY ==EXPIRY-YEAR==
          ==(SCRNVAR2)== BY ==EXPYEAR==
          ==(MAPNAME3)== BY ==CACTUPA== .
        IF (FLG-(TESTVAR1)-NOT-OK
        OR  FLG-(TESTVAR1)-BLANK)
        AND CDEMO-PGM-REENTER
            MOVE DFHRED            TO
                  (SCRNVAR2)C OF (MAPNAME3)O
            IF  FLG-(TESTVAR1)-BLANK
                MOVE '*'           TO
                  (SCRNVAR2)O OF (MAPNAME3)O
            END-IF
        END-IF
          ==(TESTVAR1)== BY ==EXPIRY-MONTH==
          ==(SCRNVAR2)== BY ==EXPMON==
          ==(MAPNAME3)== BY ==CACTUPA== .
        IF (FLG-(TESTVAR1)-NOT-OK
        OR  FLG-(TESTVAR1)-BLANK)
        AND CDEMO-PGM-REENTER
            MOVE DFHRED            TO
                  (SCRNVAR2)C OF (MAPNAME3)O
            IF  FLG-(TESTVAR1)-BLANK
                MOVE '*'           TO
                  (SCRNVAR2)O OF (MAPNAME3)O
            END-IF
        END-IF
          ==(TESTVAR1)== BY ==EXPIRY-DAY==
          ==(SCRNVAR2)== BY ==EXPDAY==
          ==(MAPNAME3)== BY ==CACTUPA== .
        IF (FLG-(TESTVAR1)-NOT-OK
        OR  FLG-(TESTVAR1)-BLANK)
        AND CDEMO-PGM-REENTER
            MOVE DFHRED            TO
                  (SCRNVAR2)C OF (MAPNAME3)O
            IF  FLG-(TESTVAR1)-BLANK
                MOVE '*'           TO
                  (SCRNVAR2)O OF (MAPNAME3)O
            END-IF
        END-IF
          ==(TESTVAR1)== BY ==CASH-CREDIT-LIMIT==
          ==(SCRNVAR2)== BY ==ACSHLIM==
          ==(MAPNAME3)== BY ==CACTUPA== .
        IF (FLG-(TESTVAR1)-NOT-OK
        OR  FLG-(TESTVAR1)-BLANK)
        AND CDEMO-PGM-REENTER
            MOVE DFHRED            TO
                  (SCRNVAR2)C OF (MAPNAME3)O
            IF  FLG-(TESTVAR1)-BLANK
                MOVE '*'           TO
                  (SCRNVAR2)O OF (MAPNAME3)O
            END-IF
        END-IF
          ==(TESTVAR1)== BY ==REISSUE-YEAR==
          ==(SCRNVAR2)== BY ==RISYEAR==
```

```cobol
        ==(MAPNAME3)== BY ==CACTUPA== .
IF (FLG-(TESTVAR1)-NOT-OK
OR  FLG-(TESTVAR1)-BLANK)
AND CDEMO-PGM-REENTER
    MOVE DFHRED             TO
        (SCRNVAR2)C OF (MAPNAME3)O
    IF  FLG-(TESTVAR1)-BLANK
        MOVE '*'            TO
        (SCRNVAR2)O OF (MAPNAME3)O
    END-IF
END-IF
    ==(TESTVAR1)== BY ==REISSUE-MONTH==
    ==(SCRNVAR2)== BY ==RISMON==
    ==(MAPNAME3)== BY ==CACTUPA== .
IF (FLG-(TESTVAR1)-NOT-OK
OR  FLG-(TESTVAR1)-BLANK)
AND CDEMO-PGM-REENTER
    MOVE DFHRED             TO
        (SCRNVAR2)C OF (MAPNAME3)O
    IF  FLG-(TESTVAR1)-BLANK
        MOVE '*'            TO
        (SCRNVAR2)O OF (MAPNAME3)O
    END-IF
END-IF
    ==(TESTVAR1)== BY ==REISSUE-DAY==
    ==(SCRNVAR2)== BY ==RISDAY==
    ==(MAPNAME3)== BY ==CACTUPA== .
IF (FLG-(TESTVAR1)-NOT-OK
OR  FLG-(TESTVAR1)-BLANK)
AND CDEMO-PGM-REENTER
    MOVE DFHRED             TO
        (SCRNVAR2)C OF (MAPNAME3)O
    IF  FLG-(TESTVAR1)-BLANK
        MOVE '*'            TO
        (SCRNVAR2)O OF (MAPNAME3)O
    END-IF
END-IF
    ==(TESTVAR1)== BY ==CURR-BAL==
    ==(SCRNVAR2)== BY ==ACURBAL==
    ==(MAPNAME3)== BY ==CACTUPA== .
IF (FLG-(TESTVAR1)-NOT-OK
OR  FLG-(TESTVAR1)-BLANK)
AND CDEMO-PGM-REENTER
    MOVE DFHRED             TO
        (SCRNVAR2)C OF (MAPNAME3)O
    IF  FLG-(TESTVAR1)-BLANK
        MOVE '*'            TO
        (SCRNVAR2)O OF (MAPNAME3)O
    END-IF
END-IF
    ==(TESTVAR1)== BY ==CURR-CYC-CREDIT==
    ==(SCRNVAR2)== BY ==ACRCYCR==
    ==(MAPNAME3)== BY ==CACTUPA== .
IF (FLG-(TESTVAR1)-NOT-OK
OR  FLG-(TESTVAR1)-BLANK)
AND CDEMO-PGM-REENTER
    MOVE DFHRED             TO
        (SCRNVAR2)C OF (MAPNAME3)O
    IF  FLG-(TESTVAR1)-BLANK
```

```cobol
            MOVE '*'              TO
               (SCRNVAR2)O OF (MAPNAME3)O
         END-IF
      END-IF
       ==(TESTVAR1)== BY ==CURR-CYC-DEBIT==
       ==(SCRNVAR2)== BY ==ACRCYDB==
       ==(MAPNAME3)== BY ==CACTUPA== .
   IF (FLG-(TESTVAR1)-NOT-OK
   OR  FLG-(TESTVAR1)-BLANK)
   AND CDEMO-PGM-REENTER
         MOVE DFHRED           TO
               (SCRNVAR2)C OF (MAPNAME3)O
         IF  FLG-(TESTVAR1)-BLANK
            MOVE '*'              TO
               (SCRNVAR2)O OF (MAPNAME3)O
         END-IF
      END-IF
       ==(TESTVAR1)== BY ==EDIT-US-SSN-PART1==
       ==(SCRNVAR2)== BY ==ACTSSN1==
       ==(MAPNAME3)== BY ==CACTUPA== .
   IF (FLG-(TESTVAR1)-NOT-OK
   OR  FLG-(TESTVAR1)-BLANK)
   AND CDEMO-PGM-REENTER
         MOVE DFHRED           TO
               (SCRNVAR2)C OF (MAPNAME3)O
         IF  FLG-(TESTVAR1)-BLANK
            MOVE '*'              TO
               (SCRNVAR2)O OF (MAPNAME3)O
         END-IF
      END-IF
       ==(TESTVAR1)== BY ==EDIT-US-SSN-PART2==
       ==(SCRNVAR2)== BY ==ACTSSN2==
       ==(MAPNAME3)== BY ==CACTUPA== .
   IF (FLG-(TESTVAR1)-NOT-OK
   OR  FLG-(TESTVAR1)-BLANK)
   AND CDEMO-PGM-REENTER
         MOVE DFHRED           TO
               (SCRNVAR2)C OF (MAPNAME3)O
         IF  FLG-(TESTVAR1)-BLANK
            MOVE '*'              TO
               (SCRNVAR2)O OF (MAPNAME3)O
         END-IF
      END-IF
       ==(TESTVAR1)== BY ==EDIT-US-SSN-PART3==
       ==(SCRNVAR2)== BY ==ACTSSN3==
       ==(MAPNAME3)== BY ==CACTUPA== .
   IF (FLG-(TESTVAR1)-NOT-OK
   OR  FLG-(TESTVAR1)-BLANK)
   AND CDEMO-PGM-REENTER
         MOVE DFHRED           TO
               (SCRNVAR2)C OF (MAPNAME3)O
         IF  FLG-(TESTVAR1)-BLANK
            MOVE '*'              TO
               (SCRNVAR2)O OF (MAPNAME3)O
         END-IF
      END-IF
       ==(TESTVAR1)== BY ==DT-OF-BIRTH-YEAR==
       ==(SCRNVAR2)== BY ==DOBYEAR==
       ==(MAPNAME3)== BY ==CACTUPA== .
```

```
IF (FLG-(TESTVAR1)-NOT-OK
OR  FLG-(TESTVAR1)-BLANK)
AND CDEMO-PGM-REENTER
    MOVE DFHRED            TO
        (SCRNVAR2)C OF (MAPNAME3)O
    IF  FLG-(TESTVAR1)-BLANK
        MOVE '*'            TO
        (SCRNVAR2)O OF (MAPNAME3)O
    END-IF
END-IF
  ==(TESTVAR1)== BY ==DT-OF-BIRTH-MONTH==
  ==(SCRNVAR2)== BY ==DOBMON==
  ==(MAPNAME3)== BY ==CACTUPA== .
IF (FLG-(TESTVAR1)-NOT-OK
OR  FLG-(TESTVAR1)-BLANK)
AND CDEMO-PGM-REENTER
    MOVE DFHRED            TO
        (SCRNVAR2)C OF (MAPNAME3)O
    IF  FLG-(TESTVAR1)-BLANK
        MOVE '*'            TO
        (SCRNVAR2)O OF (MAPNAME3)O
    END-IF
END-IF
  ==(TESTVAR1)== BY ==DT-OF-BIRTH-DAY==
  ==(SCRNVAR2)== BY ==DOBDAY==
  ==(MAPNAME3)== BY ==CACTUPA== .
IF (FLG-(TESTVAR1)-NOT-OK
OR  FLG-(TESTVAR1)-BLANK)
AND CDEMO-PGM-REENTER
    MOVE DFHRED            TO
        (SCRNVAR2)C OF (MAPNAME3)O
    IF  FLG-(TESTVAR1)-BLANK
        MOVE '*'            TO
        (SCRNVAR2)O OF (MAPNAME3)O
    END-IF
END-IF
  ==(TESTVAR1)== BY ==FICO-SCORE==
  ==(SCRNVAR2)== BY ==ACSTFCO==
  ==(MAPNAME3)== BY ==CACTUPA== .
IF (FLG-(TESTVAR1)-NOT-OK
OR  FLG-(TESTVAR1)-BLANK)
AND CDEMO-PGM-REENTER
    MOVE DFHRED            TO
        (SCRNVAR2)C OF (MAPNAME3)O
    IF  FLG-(TESTVAR1)-BLANK
        MOVE '*'            TO
        (SCRNVAR2)O OF (MAPNAME3)O
    END-IF
END-IF
  ==(TESTVAR1)== BY ==FIRST-NAME==
  ==(SCRNVAR2)== BY ==ACSFNAM==
  ==(MAPNAME3)== BY ==CACTUPA== .
IF (FLG-(TESTVAR1)-NOT-OK
OR  FLG-(TESTVAR1)-BLANK)
AND CDEMO-PGM-REENTER
    MOVE DFHRED            TO
        (SCRNVAR2)C OF (MAPNAME3)O
    IF  FLG-(TESTVAR1)-BLANK
        MOVE '*'            TO
```

```
                         (SCRNVAR2)O OF (MAPNAME3)O
               END-IF
           END-IF
             ==(TESTVAR1)== BY ==MIDDLE-NAME==
             ==(SCRNVAR2)== BY ==ACSMNAM==
             ==(MAPNAME3)== BY ==CACTUPA== .
         IF (FLG-(TESTVAR1)-NOT-OK
         OR  FLG-(TESTVAR1)-BLANK)
         AND CDEMO-PGM-REENTER
               MOVE DFHRED             TO
                   (SCRNVAR2)C OF (MAPNAME3)O
               IF  FLG-(TESTVAR1)-BLANK
                   MOVE '*'            TO
                   (SCRNVAR2)O OF (MAPNAME3)O
               END-IF
           END-IF
             ==(TESTVAR1)== BY ==LAST-NAME==
             ==(SCRNVAR2)== BY ==ACSLNAM==
             ==(MAPNAME3)== BY ==CACTUPA== .
         IF (FLG-(TESTVAR1)-NOT-OK
         OR  FLG-(TESTVAR1)-BLANK)
         AND CDEMO-PGM-REENTER
               MOVE DFHRED             TO
                   (SCRNVAR2)C OF (MAPNAME3)O
               IF  FLG-(TESTVAR1)-BLANK
                   MOVE '*'            TO
                   (SCRNVAR2)O OF (MAPNAME3)O
               END-IF
           END-IF
             ==(TESTVAR1)== BY ==ADDRESS-LINE-1==
             ==(SCRNVAR2)== BY ==ACSADL1==
             ==(MAPNAME3)== BY ==CACTUPA== .
         IF (FLG-(TESTVAR1)-NOT-OK
         OR  FLG-(TESTVAR1)-BLANK)
         AND CDEMO-PGM-REENTER
               MOVE DFHRED             TO
                   (SCRNVAR2)C OF (MAPNAME3)O
               IF  FLG-(TESTVAR1)-BLANK
                   MOVE '*'            TO
                   (SCRNVAR2)O OF (MAPNAME3)O
               END-IF
           END-IF
             ==(TESTVAR1)== BY ==STATE==
             ==(SCRNVAR2)== BY ==ACSSTTE==
             ==(MAPNAME3)== BY ==CACTUPA== .
         IF (FLG-(TESTVAR1)-NOT-OK
         OR  FLG-(TESTVAR1)-BLANK)
         AND CDEMO-PGM-REENTER
               MOVE DFHRED             TO
                   (SCRNVAR2)C OF (MAPNAME3)O
               IF  FLG-(TESTVAR1)-BLANK
                   MOVE '*'            TO
                   (SCRNVAR2)O OF (MAPNAME3)O
               END-IF
           END-IF
             ==(TESTVAR1)== BY ==ADDRESS-LINE-2==
             ==(SCRNVAR2)== BY ==ACSADL2==
             ==(MAPNAME3)== BY ==CACTUPA== .
         IF (FLG-(TESTVAR1)-NOT-OK
```

```
OR  FLG-(TESTVAR1)-BLANK)
AND CDEMO-PGM-REENTER
    MOVE DFHRED             TO
        (SCRNVAR2)C OF (MAPNAME3)O
    IF  FLG-(TESTVAR1)-BLANK
        MOVE '*'             TO
        (SCRNVAR2)O OF (MAPNAME3)O
    END-IF
END-IF
 ==(TESTVAR1)== BY ==ZIPCODE==
 ==(SCRNVAR2)== BY ==ACSZIPC==
 ==(MAPNAME3)== BY ==CACTUPA== .
IF (FLG-(TESTVAR1)-NOT-OK
OR  FLG-(TESTVAR1)-BLANK)
AND CDEMO-PGM-REENTER
    MOVE DFHRED             TO
        (SCRNVAR2)C OF (MAPNAME3)O
    IF  FLG-(TESTVAR1)-BLANK
        MOVE '*'             TO
        (SCRNVAR2)O OF (MAPNAME3)O
    END-IF
END-IF
 ==(TESTVAR1)== BY ==CITY==
 ==(SCRNVAR2)== BY ==ACSCITY==
 ==(MAPNAME3)== BY ==CACTUPA== .
IF (FLG-(TESTVAR1)-NOT-OK
OR  FLG-(TESTVAR1)-BLANK)
AND CDEMO-PGM-REENTER
    MOVE DFHRED             TO
        (SCRNVAR2)C OF (MAPNAME3)O
    IF  FLG-(TESTVAR1)-BLANK
        MOVE '*'             TO
        (SCRNVAR2)O OF (MAPNAME3)O
    END-IF
END-IF
 ==(TESTVAR1)== BY ==COUNTRY==
 ==(SCRNVAR2)== BY ==ACSCTRY==
 ==(MAPNAME3)== BY ==CACTUPA== .
IF (FLG-(TESTVAR1)-NOT-OK
OR  FLG-(TESTVAR1)-BLANK)
AND CDEMO-PGM-REENTER
    MOVE DFHRED             TO
        (SCRNVAR2)C OF (MAPNAME3)O
    IF  FLG-(TESTVAR1)-BLANK
        MOVE '*'             TO
        (SCRNVAR2)O OF (MAPNAME3)O
    END-IF
END-IF
 ==(TESTVAR1)== BY ==PHONE-NUM-1A==
 ==(SCRNVAR2)== BY ==ACSPH1A==
 ==(MAPNAME3)== BY ==CACTUPA== .
IF (FLG-(TESTVAR1)-NOT-OK
OR  FLG-(TESTVAR1)-BLANK)
AND CDEMO-PGM-REENTER
    MOVE DFHRED             TO
        (SCRNVAR2)C OF (MAPNAME3)O
    IF  FLG-(TESTVAR1)-BLANK
        MOVE '*'             TO
         (SCRNVAR2)O OF (MAPNAME3)O
```

```
           END-IF
      END-IF
       ==(TESTVAR1)== BY ==PHONE-NUM-1B==
       ==(SCRNVAR2)== BY ==ACSPH1B==
       ==(MAPNAME3)== BY ==CACTUPA== .
      IF (FLG-(TESTVAR1)-NOT-OK
      OR  FLG-(TESTVAR1)-BLANK)
      AND CDEMO-PGM-REENTER
           MOVE DFHRED              TO
               (SCRNVAR2)C OF (MAPNAME3)O
           IF  FLG-(TESTVAR1)-BLANK
               MOVE '*'             TO
               (SCRNVAR2)O OF (MAPNAME3)O
           END-IF
      END-IF
       ==(TESTVAR1)== BY ==PHONE-NUM-1C==
       ==(SCRNVAR2)== BY ==ACSPH1C==
       ==(MAPNAME3)== BY ==CACTUPA== .
      IF (FLG-(TESTVAR1)-NOT-OK
      OR  FLG-(TESTVAR1)-BLANK)
      AND CDEMO-PGM-REENTER
           MOVE DFHRED              TO
               (SCRNVAR2)C OF (MAPNAME3)O
           IF  FLG-(TESTVAR1)-BLANK
               MOVE '*'             TO
               (SCRNVAR2)O OF (MAPNAME3)O
           END-IF
      END-IF
       ==(TESTVAR1)== BY ==PHONE-NUM-2A==
       ==(SCRNVAR2)== BY ==ACSPH2A==
       ==(MAPNAME3)== BY ==CACTUPA== .
      IF (FLG-(TESTVAR1)-NOT-OK
      OR  FLG-(TESTVAR1)-BLANK)
      AND CDEMO-PGM-REENTER
           MOVE DFHRED              TO
               (SCRNVAR2)C OF (MAPNAME3)O
           IF  FLG-(TESTVAR1)-BLANK
               MOVE '*'             TO
               (SCRNVAR2)O OF (MAPNAME3)O
           END-IF
      END-IF
       ==(TESTVAR1)== BY ==PHONE-NUM-2B==
       ==(SCRNVAR2)== BY ==ACSPH2B==
       ==(MAPNAME3)== BY ==CACTUPA== .
      IF (FLG-(TESTVAR1)-NOT-OK
      OR  FLG-(TESTVAR1)-BLANK)
      AND CDEMO-PGM-REENTER
           MOVE DFHRED              TO
               (SCRNVAR2)C OF (MAPNAME3)O
           IF  FLG-(TESTVAR1)-BLANK
               MOVE '*'             TO
               (SCRNVAR2)O OF (MAPNAME3)O
           END-IF
      END-IF
       ==(TESTVAR1)== BY ==PHONE-NUM-2C==
       ==(SCRNVAR2)== BY ==ACSPH2C==
       ==(MAPNAME3)== BY ==CACTUPA== .
      IF (FLG-(TESTVAR1)-NOT-OK
      OR  FLG-(TESTVAR1)-BLANK)
```

```
                AND CDEMO-PGM-REENTER
                   MOVE DFHRED              TO
                       (SCRNVAR2)C OF (MAPNAME3)O
                   IF  FLG-(TESTVAR1)-BLANK
                       MOVE '*'             TO
                          (SCRNVAR2)O OF (MAPNAME3)O
                   END-IF
                END-IF
                 ==(TESTVAR1)== BY ==PRI-CARDHOLDER==
                 ==(SCRNVAR2)== BY ==ACSPFLG==
                 ==(MAPNAME3)== BY ==CACTUPA== .
             IF (FLG-(TESTVAR1)-NOT-OK
             OR  FLG-(TESTVAR1)-BLANK)
             AND CDEMO-PGM-REENTER
                   MOVE DFHRED              TO
                       (SCRNVAR2)C OF (MAPNAME3)O
                   IF  FLG-(TESTVAR1)-BLANK
                       MOVE '*'             TO
                          (SCRNVAR2)O OF (MAPNAME3)O
                   END-IF
                END-IF
                 ==(TESTVAR1)== BY ==EFT-ACCOUNT-ID==
                 ==(SCRNVAR2)== BY ==ACSEFTC==
                 ==(MAPNAME3)== BY ==CACTUPA== .
                    .

Business rule: 3310-PROTECT-ALL-ATTRS
        3310-PROTECT-ALL-ATTRS.
           MOVE DFHBMPRF              TO ACCTSIDA OF CACTUPAI
                                         ACSTTUSA OF CACTUPAI
                                         ACRDLIMA OF CACTUPAI
                                         ACSHLIMA OF CACTUPAI
                                         ACURBALA OF CACTUPAI
                                         ACRCYCRA OF CACTUPAI
                                         ACRCYDBA OF CACTUPAI
                                         OPNYEARA OF CACTUPAI
                                         OPNMONA  OF CACTUPAI
                                         OPNDAYA  OF CACTUPAI
                                         EXPYEARA OF CACTUPAI
                                         EXPMONA  OF CACTUPAI
                                         EXPDAYA  OF CACTUPAI
                                         RISYEARA OF CACTUPAI
                                         RISMONA  OF CACTUPAI
                                         RISDAYA  OF CACTUPAI
                                         AADDGRPA OF CACTUPAI
                                         ACSTNUMA OF CACTUPAI
                                         ACTSSN1A OF CACTUPAI
                                         ACTSSN2A OF CACTUPAI
                                         ACTSSN3A OF CACTUPAI
                                         ACSTFCOA OF CACTUPAI
                                         DOBYEARA OF CACTUPAI
                                         DOBMONA  OF CACTUPAI
                                         DOBDAYA  OF CACTUPAI
                                         ACSFNAMA OF CACTUPAI
                                         ACSMNAMA OF CACTUPAI
                                         ACSLNAMA OF CACTUPAI
                                         ACSADL1A OF CACTUPAI
                                         ACSADL2A OF CACTUPAI
                                         ACSCITYA OF CACTUPAI
```

```
                                          ACSSTTEA OF CACTUPAI
                                          ACSZIPCA OF CACTUPAI
                                          ACSCTRYA OF CACTUPAI
                                          ACSPH1AA OF CACTUPAI
                                          ACSPH1BA OF CACTUPAI
                                          ACSPH1CA OF CACTUPAI
                                          ACSPH2AA OF CACTUPAI
                                          ACSPH2BA OF CACTUPAI
                                          ACSPH2CA OF CACTUPAI
                                          ACSGOVTA OF CACTUPAI
                                          ACSEFTCA OF CACTUPAI
                                          ACSPFLGA OF CACTUPAI
                                          INFOMSGA OF CACTUPAI
            .


Business rule: 3320-UNPROTECT-FEW-ATTRS
        3320-UNPROTECT-FEW-ATTRS.
            MOVE DFHBMFSE              TO ACSTTUSA OF CACTUPAI
                                          ACRDLIMA OF CACTUPAI
                                          ACSHLIMA OF CACTUPAI
                                          ACURBALA OF CACTUPAI
                                          ACRCYCRA OF CACTUPAI
                                          ACRCYDBA OF CACTUPAI
                                          OPNYEARA OF CACTUPAI
                                          OPNMONA  OF CACTUPAI
                                          OPNDAYA  OF CACTUPAI
                                          EXPYEARA OF CACTUPAI
                                          EXPMONA  OF CACTUPAI
                                          EXPDAYA  OF CACTUPAI
                                          RISYEARA OF CACTUPAI
                                          RISMONA  OF CACTUPAI
                                          RISDAYA  OF CACTUPAI
                                          DOBYEARA OF CACTUPAI
                                          DOBMONA  OF CACTUPAI
                                          DOBDAYA  OF CACTUPAI
                                          AADDGRPA OF CACTUPAI
            MOVE DFHBMPRF         TO  ACSTNUMA OF CACTUPAI
            MOVE DFHBMFSE         TO  ACTSSN1A OF CACTUPAI
                                          ACTSSN2A OF CACTUPAI
                                          ACTSSN3A OF CACTUPAI
                                          ACSTFCOA OF CACTUPAI
                                          ACSFNAMA OF CACTUPAI
                                          ACSMNAMA OF CACTUPAI
                                          ACSLNAMA OF CACTUPAI
                                          ACSADL1A OF CACTUPAI
                                          ACSADL2A OF CACTUPAI
                                          ACSCITYA OF CACTUPAI
                                          ACSSTTEA OF CACTUPAI
                                          ACSZIPCA OF CACTUPAI
            MOVE DFHBMPRF            TO ACSCTRYA OF CACTUPAI
            MOVE DFHBMFSE            TO ACSPH1AA OF CACTUPAI
                                          ACSPH1BA OF CACTUPAI
                                          ACSPH1CA OF CACTUPAI
            MOVE DFHBMFSE            TO ACSPH2AA OF CACTUPAI
                                          ACSPH2BA OF CACTUPAI
                                          ACSPH2CA OF CACTUPAI
                                          ACSGOVTA OF CACTUPAI
                                          ACSEFTCA OF CACTUPAI
                                          ACSPFLGA OF CACTUPAI
```

```cobol
                MOVE DFHBMPRF                TO INFOMSGA OF CACTUPAI
                .

Business rule: 9200-GETCARDXREF-BYACCT
      9200-GETCARDXREF-BYACCT.
           EXEC CICS READ
                DATASET   (LIT-CARDXREFNAME-ACCT-PATH)
                RIDFLD    (WS-CARD-RID-ACCT-ID-X)
                KEYLENGTH (LENGTH OF WS-CARD-RID-ACCT-ID-X)
                INTO      (CARD-XREF-RECORD)
                LENGTH    (LENGTH OF CARD-XREF-RECORD)
                RESP      (WS-RESP-CD)
                RESP2     (WS-REAS-CD)
           END-EXEC
           EVALUATE WS-RESP-CD
              WHEN DFHRESP(NORMAL)
                 MOVE XREF-CUST-ID              TO CDEMO-CUST-ID
                 MOVE XREF-CARD-NUM             TO CDEMO-CARD-NUM
              WHEN DFHRESP(NOTFND)
                 SET INPUT-ERROR               TO TRUE
                 SET FLG-ACCTFILTER-NOT-OK     TO TRUE
                 IF WS-RETURN-MSG-OFF
                   MOVE WS-RESP-CD             TO ERROR-RESP
                   MOVE WS-REAS-CD             TO ERROR-RESP2
                   STRING
                    WS-CARD-RID-ACCT-ID-X
                   ERROR-RESP
                   ERROR-RESP2
                   DELIMITED BY SIZE
                   INTO WS-RETURN-MSG
                   END-STRING
                 END-IF
              WHEN OTHER
                 SET INPUT-ERROR               TO TRUE
                 SET FLG-ACCTFILTER-NOT-OK            TO TRUE
                 MOVE 'READ'                   TO ERROR-OPNAME
                 MOVE LIT-CARDXREFNAME-ACCT-PATH TO ERROR-FILE
                 MOVE WS-RESP-CD               TO ERROR-RESP
                 MOVE WS-REAS-CD               TO ERROR-RESP2
                 MOVE WS-FILE-ERROR-MESSAGE    TO WS-RETURN-MSG
           END-EVALUATE
                .

Business rule: 9300-GETACCTDATA-BYACCT
      9300-GETACCTDATA-BYACCT.
           EXEC CICS READ
                DATASET   (LIT-ACCTFILENAME)
                RIDFLD    (WS-CARD-RID-ACCT-ID-X)
                KEYLENGTH (LENGTH OF WS-CARD-RID-ACCT-ID-X)
                INTO      (ACCOUNT-RECORD)
                LENGTH    (LENGTH OF ACCOUNT-RECORD)
                RESP      (WS-RESP-CD)
                RESP2     (WS-REAS-CD)
           END-EXEC
           EVALUATE WS-RESP-CD
              WHEN DFHRESP(NORMAL)
                 SET FOUND-ACCT-IN-MASTER      TO TRUE
              WHEN DFHRESP(NOTFND)
                 SET INPUT-ERROR               TO TRUE
```

```
                SET FLG-ACCTFILTER-NOT-OK      TO TRUE
                IF WS-RETURN-MSG-OFF
                   MOVE WS-RESP-CD                TO ERROR-RESP
                   MOVE WS-REAS-CD                TO ERROR-RESP2
                   STRING
                     WS-CARD-RID-ACCT-ID-X
                   ERROR-RESP
                   ERROR-RESP2
                   DELIMITED BY SIZE
                   INTO WS-RETURN-MSG
                   END-STRING
                END-IF
             WHEN OTHER
                SET INPUT-ERROR               TO TRUE
                SET FLG-ACCTFILTER-NOT-OK                 TO TRUE
                MOVE 'READ'                   TO ERROR-OPNAME
                MOVE LIT-ACCTFILENAME         TO ERROR-FILE
                MOVE WS-RESP-CD               TO ERROR-RESP
                MOVE WS-REAS-CD               TO ERROR-RESP2
                MOVE WS-FILE-ERROR-MESSAGE    TO WS-RETURN-MSG
          END-EVALUATE
             .


Business rule: 9500-STORE-FETCHED-DATA
       9500-STORE-FETCHED-DATA.
             MOVE ACCT-ID                  TO CDEMO-ACCT-ID
             MOVE CUST-ID                  TO CDEMO-CUST-ID
             MOVE CUST-FIRST-NAME          TO CDEMO-CUST-FNAME
             MOVE CUST-MIDDLE-NAME         TO CDEMO-CUST-MNAME
             MOVE CUST-LAST-NAME           TO CDEMO-CUST-LNAME
             MOVE ACCT-ACTIVE-STATUS       TO CDEMO-ACCT-STATUS
             MOVE XREF-CARD-NUM            TO CDEMO-CARD-NUM
             INITIALIZE ACUP-OLD-DETAILS
             MOVE ACCT-ID                  TO ACUP-OLD-ACCT-ID
             MOVE ACCT-ACTIVE-STATUS       TO ACUP-OLD-ACTIVE-STATUS
             MOVE ACCT-CURR-BAL            TO ACUP-OLD-CURR-BAL-N
             MOVE ACCT-CREDIT-LIMIT        TO ACUP-OLD-CREDIT-LIMIT-N
             MOVE ACCT-CASH-CREDIT-LIMIT   TO ACUP-OLD-CASH-CREDIT-LIMIT-N
             MOVE ACCT-CURR-CYC-CREDIT     TO ACUP-OLD-CURR-CYC-CREDIT-N
             MOVE ACCT-CURR-CYC-DEBIT      TO ACUP-OLD-CURR-CYC-DEBIT-N
             MOVE ACCT-OPEN-DATE(1:4)      TO ACUP-OLD-OPEN-YEAR
             MOVE ACCT-OPEN-DATE(6:2)      TO ACUP-OLD-OPEN-MON
             MOVE ACCT-OPEN-DATE(9:2)      TO ACUP-OLD-OPEN-DAY
             MOVE ACCT-EXPIRAION-DATE(1:4) TO ACUP-OLD-EXP-YEAR
             MOVE ACCT-EXPIRAION-DATE(6:2) TO ACUP-OLD-EXP-MON
             MOVE ACCT-EXPIRAION-DATE(9:2) TO ACUP-OLD-EXP-DAY
             MOVE ACCT-REISSUE-DATE(1:4)   TO ACUP-OLD-REISSUE-YEAR
             MOVE ACCT-REISSUE-DATE(6:2)   TO ACUP-OLD-REISSUE-MON
             MOVE ACCT-REISSUE-DATE(9:2)   TO ACUP-OLD-REISSUE-DAY
             MOVE ACCT-GROUP-ID            TO ACUP-OLD-GROUP-ID
             MOVE CUST-ID                  TO ACUP-OLD-CUST-ID
             MOVE CUST-SSN                 TO ACUP-OLD-CUST-SSN
             MOVE CUST-DOB-YYYY-MM-DD(1:4) TO ACUP-OLD-CUST-DOB-YEAR
             MOVE CUST-DOB-YYYY-MM-DD(6:2) TO ACUP-OLD-CUST-DOB-MON
             MOVE CUST-DOB-YYYY-MM-DD(9:2) TO ACUP-OLD-CUST-DOB-DAY
             MOVE CUST-FICO-CREDIT-SCORE   TO ACUP-OLD-CUST-FICO-SCORE
             MOVE CUST-FIRST-NAME          TO ACUP-OLD-CUST-FIRST-NAME
             MOVE CUST-MIDDLE-NAME         TO ACUP-OLD-CUST-MIDDLE-NAME
             MOVE CUST-LAST-NAME           TO ACUP-OLD-CUST-LAST-NAME
```

```
              MOVE CUST-ADDR-LINE-1          TO ACUP-OLD-CUST-ADDR-LINE-1
              MOVE CUST-ADDR-LINE-2          TO ACUP-OLD-CUST-ADDR-LINE-2
              MOVE CUST-ADDR-LINE-3          TO ACUP-OLD-CUST-ADDR-LINE-3
              MOVE CUST-ADDR-STATE-CD        TO ACUP-OLD-CUST-ADDR-STATE-CD
              MOVE CUST-ADDR-COUNTRY-CD      TO
                                               ACUP-OLD-CUST-ADDR-COUNTRY-CD
              MOVE CUST-ADDR-ZIP             TO ACUP-OLD-CUST-ADDR-ZIP
              MOVE CUST-PHONE-NUM-1          TO ACUP-OLD-CUST-PHONE-NUM-1
              MOVE CUST-PHONE-NUM-2          TO ACUP-OLD-CUST-PHONE-NUM-2
              MOVE CUST-GOVT-ISSUED-ID       TO ACUP-OLD-CUST-GOVT-ISSUED-ID
              MOVE CUST-EFT-ACCOUNT-ID       TO ACUP-OLD-CUST-EFT-ACCOUNT-ID
              MOVE CUST-PRI-CARD-HOLDER-IND TO ACUP-OLD-CUST-PRI-HOLDER-IND
              .

Business rule: 9600-WRITE-PROCESSING
       9600-WRITE-PROCESSING.
           MOVE CC-ACCT-ID               TO WS-CARD-RID-ACCT-ID
           EXEC CICS READ
                FILE      (LIT-ACCTFILENAME)
                UPDATE
                RIDFLD    (WS-CARD-RID-ACCT-ID-X)
                KEYLENGTH (LENGTH OF WS-CARD-RID-ACCT-ID-X)
                INTO      (ACCOUNT-RECORD)
                LENGTH    (LENGTH OF ACCOUNT-RECORD)
                RESP      (WS-RESP-CD)
                RESP2     (WS-REAS-CD)
           END-EXEC
           IF WS-RESP-CD EQUAL TO DFHRESP(NORMAL)
              CONTINUE
           ELSE
              SET INPUT-ERROR                      TO TRUE
              IF  WS-RETURN-MSG-OFF
                  SET COULD-NOT-LOCK-ACCT-FOR-UPDATE  TO TRUE
              END-IF
              GO TO 9600-WRITE-PROCESSING-EXIT
           END-IF
           MOVE CDEMO-CUST-ID                    TO WS-CARD-RID-CUST-ID
           EXEC CICS READ
                FILE      (LIT-CUSTFILENAME)
                UPDATE
                RIDFLD    (WS-CARD-RID-CUST-ID-X)
                KEYLENGTH (LENGTH OF WS-CARD-RID-CUST-ID-X)
                INTO      (CUSTOMER-RECORD)
                LENGTH    (LENGTH OF CUSTOMER-RECORD)
                RESP      (WS-RESP-CD)
                RESP2     (WS-REAS-CD)
           END-EXEC
           IF WS-RESP-CD EQUAL TO DFHRESP(NORMAL)
              CONTINUE
           ELSE
              SET INPUT-ERROR                   TO TRUE
              IF  WS-RETURN-MSG-OFF
                  SET COULD-NOT-LOCK-CUST-FOR-UPDATE  TO TRUE
              END-IF
              GO TO 9600-WRITE-PROCESSING-EXIT
           END-IF
           PERFORM 9700-CHECK-CHANGE-IN-REC
              THRU 9700-CHECK-CHANGE-IN-REC-EXIT
           IF DATA-WAS-CHANGED-BEFORE-UPDATE
```

```
            GO TO 9600-WRITE-PROCESSING-EXIT
       END-IF
       INITIALIZE ACCT-UPDATE-RECORD
       MOVE ACUP-NEW-ACCT-ID          TO ACCT-UPDATE-ID
       MOVE ACUP-NEW-ACTIVE-STATUS    TO ACCT-UPDATE-ACTIVE-STATUS
       MOVE ACUP-NEW-CURR-BAL-N       TO ACCT-UPDATE-CURR-BAL
       MOVE ACUP-NEW-CREDIT-LIMIT-N   TO ACCT-UPDATE-CREDIT-LIMIT
       MOVE ACUP-NEW-CASH-CREDIT-LIMIT-N
                             TO ACCT-UPDATE-CASH-CREDIT-LIMIT
       MOVE ACUP-NEW-CURR-CYC-CREDIT-N
                              TO ACCT-UPDATE-CURR-CYC-CREDIT
       MOVE ACUP-NEW-CURR-CYC-DEBIT-N TO ACCT-UPDATE-CURR-CYC-DEBIT
       STRING ACUP-NEW-OPEN-YEAR
              ACUP-NEW-OPEN-MON
              ACUP-NEW-OPEN-DAY
       DELIMITED BY SIZE
                              INTO ACCT-UPDATE-OPEN-DATE
       STRING ACUP-NEW-EXP-YEAR
              ACUP-NEW-EXP-MON
              ACUP-NEW-EXP-DAY
       DELIMITED BY SIZE
                              INTO ACCT-UPDATE-EXPIRAION-DATE
       MOVE ACCT-REISSUE-DATE         TO ACCT-UPDATE-REISSUE-DATE
       STRING ACUP-NEW-REISSUE-YEAR
              ACUP-NEW-REISSUE-MON
              ACUP-NEW-REISSUE-DAY
       DELIMITED BY SIZE
                              INTO ACCT-UPDATE-REISSUE-DATE
       MOVE ACUP-NEW-GROUP-ID         TO ACCT-UPDATE-GROUP-ID
       INITIALIZE CUST-UPDATE-RECORD
       MOVE  ACUP-NEW-CUST-ID         TO CUST-UPDATE-ID
       MOVE  ACUP-NEW-CUST-FIRST-NAME
                              TO CUST-UPDATE-FIRST-NAME
       MOVE  ACUP-NEW-CUST-MIDDLE-NAME
                              TO CUST-UPDATE-MIDDLE-NAME
       MOVE  ACUP-NEW-CUST-LAST-NAME TO CUST-UPDATE-LAST-NAME
       MOVE  ACUP-NEW-CUST-ADDR-LINE-1
                              TO CUST-UPDATE-ADDR-LINE-1
       MOVE  ACUP-NEW-CUST-ADDR-LINE-2
                              TO CUST-UPDATE-ADDR-LINE-2
       MOVE  ACUP-NEW-CUST-ADDR-LINE-3
                              TO CUST-UPDATE-ADDR-LINE-3
       MOVE  ACUP-NEW-CUST-ADDR-STATE-CD
                              TO CUST-UPDATE-ADDR-STATE-CD
       MOVE  ACUP-NEW-CUST-ADDR-COUNTRY-CD
                              TO CUST-UPDATE-ADDR-COUNTRY-CD
       MOVE  ACUP-NEW-CUST-ADDR-ZIP  TO CUST-UPDATE-ADDR-ZIP
       STRING '(',
              ACUP-NEW-CUST-PHONE-NUM-1A,
              ')',
              ACUP-NEW-CUST-PHONE-NUM-1B,
              '-',
              ACUP-NEW-CUST-PHONE-NUM-1C
       DELIMITED BY SIZE    INTO CUST-UPDATE-PHONE-NUM-1
       STRING '(',
              ACUP-NEW-CUST-PHONE-NUM-2A,
              ')',
              ACUP-NEW-CUST-PHONE-NUM-2B,
              '-',
```

```
                ACUP-NEW-CUST-PHONE-NUM-2C
        DELIMITED BY SIZE    INTO CUST-UPDATE-PHONE-NUM-2
        MOVE  ACUP-NEW-CUST-SSN        TO CUST-UPDATE-SSN
        MOVE  ACUP-NEW-CUST-GOVT-ISSUED-ID
                              TO CUST-UPDATE-GOVT-ISSUED-ID
        STRING ACUP-NEW-CUST-DOB-YEAR
               ACUP-NEW-CUST-DOB-MON
               ACUP-NEW-CUST-DOB-DAY
        DELIMITED BY SIZE            INTO CUST-UPDATE-DOB-YYYY-MM-DD
        MOVE ACUP-NEW-CUST-EFT-ACCOUNT-ID
                                  TO CUST-UPDATE-EFT-ACCOUNT-ID
        MOVE ACUP-NEW-CUST-PRI-HOLDER-IND
                                  TO CUST-UPDATE-PRI-CARD-IND
        MOVE ACUP-NEW-CUST-FICO-SCORE TO
                              CUST-UPDATE-FICO-CREDIT-SCORE
        EXEC CICS
            REWRITE FILE(LIT-ACCTFILENAME)
                    FROM(ACCT-UPDATE-RECORD)
                    LENGTH(LENGTH OF ACCT-UPDATE-RECORD)
                    RESP      (WS-RESP-CD)
                    RESP2     (WS-REAS-CD)
        END-EXEC.
        IF WS-RESP-CD EQUAL TO DFHRESP(NORMAL)
          CONTINUE
        ELSE
          SET LOCKED-BUT-UPDATE-FAILED    TO TRUE
          GO TO 9600-WRITE-PROCESSING-EXIT
        END-IF
        EXEC CICS
                    REWRITE FILE(LIT-CUSTFILENAME)
                    FROM(CUST-UPDATE-RECORD)
                    LENGTH(LENGTH OF CUST-UPDATE-RECORD)
                    RESP      (WS-RESP-CD)
                    RESP2     (WS-REAS-CD)
        END-EXEC.
        IF WS-RESP-CD EQUAL TO DFHRESP(NORMAL)
          CONTINUE
        ELSE
          SET LOCKED-BUT-UPDATE-FAILED    TO TRUE
          EXEC CICS
             SYNCPOINT ROLLBACK
          END-EXEC
          GO TO 9600-WRITE-PROCESSING-EXIT
        END-IF
        .

Business rule: 9700-CHECK-CHANGE-IN-REC
      9700-CHECK-CHANGE-IN-REC.
        IF  ACCT-ACTIVE-STATUS      EQUAL ACUP-OLD-ACTIVE-STATUS
        AND ACCT-CURR-BAL           EQUAL ACUP-OLD-CURR-BAL-N
        AND ACCT-CREDIT-LIMIT       EQUAL ACUP-OLD-CREDIT-LIMIT-N
        AND ACCT-CASH-CREDIT-LIMIT  EQUAL ACUP-OLD-CASH-CREDIT-LIMIT-N
        AND ACCT-CURR-CYC-CREDIT    EQUAL ACUP-OLD-CURR-CYC-CREDIT-N
        AND ACCT-CURR-CYC-DEBIT     EQUAL ACUP-OLD-CURR-CYC-DEBIT-N
        AND ACCT-OPEN-DATE(1:4)     EQUAL ACUP-OLD-OPEN-YEAR
        AND ACCT-OPEN-DATE(6:2)     EQUAL ACUP-OLD-OPEN-MON
        AND ACCT-OPEN-DATE(9:2)     EQUAL ACUP-OLD-OPEN-DAY
        AND ACCT-EXPIRAION-DATE(1:4)EQUAL ACUP-OLD-EXP-YEAR
        AND ACCT-EXPIRAION-DATE(6:2)EQUAL ACUP-OLD-EXP-MON
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                AND ACCT-EXPIRAION-DATE(9:2)EQUAL ACUP-OLD-EXP-DAY
                AND ACCT-REISSUE-DATE(1:4)  EQUAL ACUP-OLD-REISSUE-YEAR
                AND ACCT-REISSUE-DATE(6:2)  EQUAL ACUP-OLD-REISSUE-MON
                AND ACCT-REISSUE-DATE(9:2)  EQUAL ACUP-OLD-REISSUE-DAY
                AND FUNCTION LOWER-CASE (ACCT-GROUP-ID)          EQUAL
                    FUNCTION LOWER-CASE (ACUP-OLD-GROUP-ID)
                      CONTINUE
              ELSE
                  SET DATA-WAS-CHANGED-BEFORE-UPDATE TO TRUE
                  GO TO 9600-WRITE-PROCESSING-EXIT
              END-IF
              IF  FUNCTION UPPER-CASE (CUST-FIRST-NAME          ) EQUAL
                    FUNCTION UPPER-CASE (ACUP-OLD-CUST-FIRST-NAME )
                AND FUNCTION UPPER-CASE (CUST-MIDDLE-NAME         ) EQUAL
                    FUNCTION UPPER-CASE (ACUP-OLD-CUST-MIDDLE-NAME)
                AND FUNCTION UPPER-CASE (CUST-LAST-NAME          ) EQUAL
                    FUNCTION UPPER-CASE (ACUP-OLD-CUST-LAST-NAME   )
                AND FUNCTION UPPER-CASE (CUST-ADDR-LINE-1         ) EQUAL
                    FUNCTION UPPER-CASE (ACUP-OLD-CUST-ADDR-LINE-1)
                AND FUNCTION UPPER-CASE (CUST-ADDR-LINE-2         ) EQUAL
                    FUNCTION UPPER-CASE (ACUP-OLD-CUST-ADDR-LINE-2)
                AND FUNCTION UPPER-CASE (CUST-ADDR-LINE-3         ) EQUAL
                    FUNCTION UPPER-CASE (ACUP-OLD-CUST-ADDR-LINE-3)
                AND FUNCTION UPPER-CASE (CUST-ADDR-STATE-CD       ) EQUAL
                    FUNCTION UPPER-CASE (ACUP-OLD-CUST-ADDR-STATE-CD)
                AND FUNCTION UPPER-CASE (CUST-ADDR-COUNTRY-CD     ) EQUAL
                    FUNCTION UPPER-CASE (ACUP-OLD-CUST-ADDR-COUNTRY-CD )
                AND CUST-ADDR-ZIP           EQUAL ACUP-OLD-CUST-ADDR-ZIP
                AND CUST-PHONE-NUM-1        EQUAL ACUP-OLD-CUST-PHONE-NUM-1
                AND CUST-PHONE-NUM-2        EQUAL ACUP-OLD-CUST-PHONE-NUM-2
                AND CUST-SSN                EQUAL ACUP-OLD-CUST-SSN
                AND FUNCTION UPPER-CASE (CUST-GOVT-ISSUED-ID      ) EQUAL
                    FUNCTION UPPER-CASE (ACUP-OLD-CUST-GOVT-ISSUED-ID )
                AND CUST-DOB-YYYY-MM-DD (1:4)                    EQUAL
                    ACUP-OLD-CUST-DOB-YYYY-MM-DD (1:4)
                AND CUST-DOB-YYYY-MM-DD (6:2)                    EQUAL
                    ACUP-OLD-CUST-DOB-YYYY-MM-DD (5:2)
                AND CUST-DOB-YYYY-MM-DD (9:2)                    EQUAL
                    ACUP-OLD-CUST-DOB-YYYY-MM-DD (7:2)
                AND CUST-EFT-ACCOUNT-ID     EQUAL
                                        ACUP-OLD-CUST-EFT-ACCOUNT-ID
                AND CUST-PRI-CARD-HOLDER-IND
                                    EQUAL
                                        ACUP-OLD-CUST-PRI-HOLDER-IND
                AND CUST-FICO-CREDIT-SCORE  EQUAL ACUP-OLD-CUST-FICO-SCORE
                      CONTINUE
              ELSE
                  SET DATA-WAS-CHANGED-BEFORE-UPDATE TO TRUE
                  GO TO 9600-WRITE-PROCESSING-EXIT
              END-IF
                  .

Business rule: YYYY-STORE-PFKEY
         YYYY-STORE-PFKEY.
             EVALUATE TRUE
               WHEN EIBAID IS EQUAL TO DFHENTER
                 SET CCARD-AID-ENTER TO TRUE
               WHEN EIBAID IS EQUAL TO DFHCLEAR
                 SET CCARD-AID-CLEAR TO TRUE
```

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              WHEN EIBAID IS EQUAL TO DFHPA1
                 SET CCARD-AID-PA1  TO TRUE
              WHEN EIBAID IS EQUAL TO DFHPA2
                 SET CCARD-AID-PA2  TO TRUE
              WHEN EIBAID IS EQUAL TO DFHPF1
                 SET CCARD-AID-PFK01 TO TRUE
              WHEN EIBAID IS EQUAL TO DFHPF2
                 SET CCARD-AID-PFK02 TO TRUE
              WHEN EIBAID IS EQUAL TO DFHPF3
                 SET CCARD-AID-PFK03 TO TRUE
              WHEN EIBAID IS EQUAL TO DFHPF4
                 SET CCARD-AID-PFK04 TO TRUE
              WHEN EIBAID IS EQUAL TO DFHPF5
                 SET CCARD-AID-PFK05 TO TRUE
              WHEN EIBAID IS EQUAL TO DFHPF6
                 SET CCARD-AID-PFK06 TO TRUE
              WHEN EIBAID IS EQUAL TO DFHPF7
                 SET CCARD-AID-PFK07 TO TRUE
              WHEN EIBAID IS EQUAL TO DFHPF8
                 SET CCARD-AID-PFK08 TO TRUE
              WHEN EIBAID IS EQUAL TO DFHPF9
                 SET CCARD-AID-PFK09 TO TRUE
              WHEN EIBAID IS EQUAL TO DFHPF10
                 SET CCARD-AID-PFK10 TO TRUE
              WHEN EIBAID IS EQUAL TO DFHPF11
                 SET CCARD-AID-PFK11 TO TRUE
              WHEN EIBAID IS EQUAL TO DFHPF12
                 SET CCARD-AID-PFK12 TO TRUE
              WHEN EIBAID IS EQUAL TO DFHPF13
                 SET CCARD-AID-PFK01 TO TRUE
              WHEN EIBAID IS EQUAL TO DFHPF14
                 SET CCARD-AID-PFK02 TO TRUE
              WHEN EIBAID IS EQUAL TO DFHPF15
                 SET CCARD-AID-PFK03 TO TRUE
              WHEN EIBAID IS EQUAL TO DFHPF16
                 SET CCARD-AID-PFK04 TO TRUE
              WHEN EIBAID IS EQUAL TO DFHPF17
                 SET CCARD-AID-PFK05 TO TRUE
              WHEN EIBAID IS EQUAL TO DFHPF18
                 SET CCARD-AID-PFK06 TO TRUE
              WHEN EIBAID IS EQUAL TO DFHPF19
                 SET CCARD-AID-PFK07 TO TRUE
              WHEN EIBAID IS EQUAL TO DFHPF20
                 SET CCARD-AID-PFK08 TO TRUE
              WHEN EIBAID IS EQUAL TO DFHPF21
                 SET CCARD-AID-PFK09 TO TRUE
              WHEN EIBAID IS EQUAL TO DFHPF22
                 SET CCARD-AID-PFK10 TO TRUE
              WHEN EIBAID IS EQUAL TO DFHPF23
                 SET CCARD-AID-PFK11 TO TRUE
              WHEN EIBAID IS EQUAL TO DFHPF24
                 SET CCARD-AID-PFK12 TO TRUE
           END-EVALUATE
           .

 Business rule: EDIT-DAY-MONTH-YEAR
        EDIT-DAY-MONTH-YEAR.
            IF  NOT WS-31-DAY-MONTH
            AND WS-DAY-31
```

```
         SET INPUT-ERROR              TO TRUE
         SET FLG-DAY-NOT-OK           TO TRUE
         SET FLG-MONTH-NOT-OK         TO TRUE
         IF WS-RETURN-MSG-OFF
            STRING
              FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
               DELIMITED BY SIZE
               INTO WS-RETURN-MSG
         END-IF
         GO TO EDIT-DATE-CCYYMMDD-EXIT
      END-IF
      IF  WS-FEBRUARY
      AND WS-DAY-30
         SET INPUT-ERROR              TO TRUE
         SET FLG-DAY-NOT-OK           TO TRUE
         SET FLG-MONTH-NOT-OK         TO TRUE
         IF WS-RETURN-MSG-OFF
            STRING
              FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
               DELIMITED BY SIZE
               INTO WS-RETURN-MSG
         END-IF
         GO TO EDIT-DATE-CCYYMMDD-EXIT
      END-IF
      IF  WS-FEBRUARY
      AND WS-DAY-29
         IF WS-EDIT-DATE-YY-N = 0
            MOVE 400              TO  WS-DIV-BY
         ELSE
            MOVE 4                TO  WS-DIV-BY
         END-IF
         DIVIDE WS-EDIT-DATE-CCYY-N
             BY WS-DIV-BY
         GIVING WS-DIVIDEND
         REMAINDER WS-REMAINDER
         IF WS-REMAINDER = ZEROES
            CONTINUE
         ELSE
            SET INPUT-ERROR         TO TRUE
            SET FLG-DAY-NOT-OK      TO TRUE
            SET FLG-MONTH-NOT-OK    TO TRUE
            SET FLG-YEAR-NOT-OK     TO TRUE
            IF WS-RETURN-MSG-OFF
            STRING
              FUNCTION TRIM(WS-EDIT-VARIABLE-NAME)
               DELIMITED BY SIZE
              INTO WS-RETURN-MSG
            END-IF
            GO TO EDIT-DATE-CCYYMMDD-EXIT
         END-IF
      END-IF
      IF WS-EDIT-DATE-IS-VALID
         CONTINUE
      ELSE
         GO TO EDIT-DATE-CCYYMMDD-EXIT
      END-IF
      .
```

METRICS
```
   7 IDENTIFICATION DIVISION lines IDL
   2 ENVIRONMENT DIVISION lines    EDL
2895 DATA DIVISION lines           DDL
3184 PROCEDURE DIVISION lines      PDL

  26 data level 01
 434 data level 02
  54 data level 03
 107 data level 05
   4 data level 07
 110 data level 10
 131 data level 15
 102 data level 20
   4 data level 25
   6 data level 30
   3 data level 77
 259 data level 88
1240 data names total (excluding FILLER)

6088 source lines     SL
5987 executable lines EL
1064 data lines       DL
2198 rule lines       RL

  97 paragraphs
  19 rules
Note: if rules = paragraphs+1, then PROCEDURE DIVISION does not start with paragraph label.
 0.4 data density = DL/(EDL+DDL)
 0.7 rule density = RL/PDL

 735 complexity
38.68 complexity/rule
Top 20% of paragraphs cover at least 80% of total processing
```