```cobol
1          identification              division.
2          program-id.                 PW0010.
3          environment                 division.
4          configuration               section.
5          input-output                section.
6          file-control.
7
8          *> Cliente
9          copy "/hbsis/selects/arq-cliente.sl"
10         *> Vendedor
11         copy "/hbsis/selects/arq-vendedor.sl"
12         *> Importar Cliente
13         copy "/hbsis/selects/arq-imp-cliente.sl"
14         *> Importar Vendedor
15         copy "/hbsis/selects/arq-imp-vendedor.sl"
16        *=============================================================
17         data                        division.
18         file                        section.
19
20         *> Cliente
21         copy "/hbsis/fds/arq-cliente.fd"
22         *> Vendedor
23         copy "/hbsis/fds/arq-vendedor.fd"
24         *> Importar Cliente
25         copy "/hbsis/fds/arq-imp-cliente.fd"
26         *> Importar Vendedor
27         copy "/hbsis/fds/arq-imp-vendedor.fd"
28
29        *=============================================================
30         working-storage             section.
31         77  wk-separar                 pic x(080) value all "EM".
32         77  wk-hifennn                 pic x(080) value all "-".
33         77  wk-fstatus                 pic x(002) value spaces.
34         77  wk-confirm                 pic x(001) value spaces.
35         77  wk-opcao                   pic 9(004) value zeros.
36         77  wk-delayss                 pic x(001) value spaces.
37         77  wk-arquivo                 pic x(006) value spaces.
38
39         01  wk-area.
40             05 work-limpar             PIC X(060) VALUE SPACES.
41
42
      *=============================================================
43         screen                      section.
44         01 tela-limpa.
45            02 line 14 col 01 pic x(70)   using work-limpar.
46            02 line 15 col 01 pic x(70)   using work-limpar.
47            02 line 16 col 01 pic x(70)   using work-limpar.
48            02 line 17 col 01 pic x(70)   using work-limpar.
49            02 line 18 col 01 pic x(70)   using work-limpar.
50            02 line 19 col 01 pic x(70)   using work-limpar.
51            02 line 20 col 01 pic x(70)   using work-limpar.
52            02 line 21 col 01 pic x(70)   using work-limpar.
53            02 line 22 col 01 pic x(70)   using work-limpar.
54
55         01 tela-01-menu.
56            02 line 1 col 1 reverse-video value "MENU PRINCIPAL".
57            02 line 06 col 22 value "0101 - Cadastro de Clientes      ".
58            02 line 07 col 22 value "0102 - Cadastro de Vendedores     ".
59            02 line 08 col 22 value "0201 - Relatorio de Clientes        ".
60            02 line 09 col 22 value "0202 - Relatorio de Vendedores     ".
61            02 line 10 col 22 value "0301 - Distribuir Clientes X  Vendedores  ".
62            02 line 09 col 22 value "9999 - Sair        ".
63            02 col 33 highlight value "digite opcao:".
64            02 col 49 value "_____".
65
66         01 tela-02-cadastro-cliente.
67            02 line 1 col 1 reverse-video value "MENU CADASTRO CLIENTES".
68            02 line 06 col 22 value "0101 - inclusao        ".
69            02 line 07 col 22 value "0102 - alteracao             ".
70            02 line 08 col 22 value "0103 - exclusao".
71            02 line 08 col 22 value "0104 - importar".
```

```cobol
 72              02 col 33 highlight value "digite opcao:".
 73              02 col 49 value "_____".
 74
 75          01 tela-02-cadastro-vendedor.
 76              02 line 1 col 1 reverse-video value "MENU CADASTRO VENDEDORES".
 77              02 line 06 col 22 value "0101 - inclusao        ".
 78              02 line 07 col 22 value "0102 - alteracao                ".
 79              02 line 08 col 22 value "0103 - exclusao".
 80              02 line 08 col 22 value "0104 - importar".
 81              02 col 33 highlight value "digite opcao:".
 82              02 col 49 value "_____".
 83
 84          01 tela-02-cad-vend-inc.
 85              02 line 1 col 1 reverse-video value "CADASTRO VENDEDOR".
 86              02 line 05 col 22 value "codigo vendedor: ".
 87              02 col  32 value "_____".
 88              02 line 06 col 22 value "cpf: ".
 89              02 col  24 value "_____".
 90              02 line 07 col 22 value "nome vendedor:".
 91              02 col  49 value "_____".
 92              02 line 07 col 22 value "latitude:".
 93              02 col  49 value "_____".
 94              02 line 07 col 22 value "longitude:".
 95              02 col  49 value "_____".
 96
 97          01 tela-02-cad-cli-inc.
 98              02 line 1 col 1 reverse-video value "CADASTRO CLIENTE".
 99              02 line 05 col 22 value "codigo cliente: ".
100              02 col  32 value "_____".
101              02 line 06 col 22 value "cnpj: ".
102              02 col  24 value "_____".
103              02 line 07 col 22 value "razao social:".
104              02 col  49 value "_____".
105              02 line 07 col 22 value "latitude:".
106              02 col  49 value "_____".
107              02 line 07 col 22 value "longitude:".
108              02 col  49 value "_____".
109
110          01 tela-03-relatorio-cliente.
111              02 line 1 col 1 reverse-video value "MENU RELATORIO CLIENTE".
112              02 line 07 col 22 value "0101-Lista Clientes - Ordem Ascendente
     ".
113              02 line 08 col 22 value "0102-Lista Clientes - Ordem Descendente".
114              02 line 08 col 22 value "0103-Filtro por Codigo Cliente".
115              02 line 08 col 22 value "0104-Filtro por Razao Social do Cliente".
116              02 col 33 highlight value "digite opcao:".
117              02 col 49 value "_____".
118
119          01 tela-03-relatorio-vendedor.
120              02 line 1 col 1 reverse-video value "MENU RELATORIO VENDEDOR".
121              02 line 07 col 22 value "0201-Lista Vendedores - Ordem Ascendente
     ".
122              02 line 08 col 22 value "0202-Lista Vendedores - Ordem Descendente".
123              02 line 08 col 22 value "0203-Filtro por Codigo Vendedor".
124              02 line 08 col 22 value "0204-Filtro por Nome
     Vendedor".
125              02 col 33 highlight value "digite opcao:".
126              02 col 49 value "_____".
127
128      *================================================================
129       procedure                    division.
130       0000-principal               section.
131           perform 1000-inicializa
132           perform 2000-processa
133               until  wk-opcao  equal 9999 or esc
134           perform 3000-finaliza.
135       0000-principal-exit.
136           exit.
137
138      *================================================================
139       1000-inicializa              section.
140           display  tela-limpa .
141       1000-exit.
```

```cobol
142              exit.
143
144      *=============================================================
145       2000-processa                section.
146              initialize            wk-opcao
147              display  tela-01-menu
148              accept   wk-opcao         at 1447 with upper
149                            auto-skip highlight.
150              if esc
151                 exit perform;
152              end-if
153
154              evaluate wk-opcao
155                 when 0101
156                     perform 2100-cadastro-cliente
157                 when 0102
158                     perform 2200-cadastro-vendedor
159                 when 0201
160                     perform 2300-relatorio-cliente
161                 when 0202
162                     perform 2400-relatorio-vendedor
163                 when 0301
164                     perform 2800-distrib-clientes
165                 when 9999
166                     exit perform
167              end-evaluate.
168           .
169       2000-exit.
170      *=============================================================
171       2100-cadastro-cliente        section.
172              initialize wk-opcao
173              display tela-02-cadastro-cliente
174              accept  wk-opcao         at 1447 with upper
175                                    auto-skip highlight.
176              if esc
177                     exit perform;
178              end-if
179
180              evaluate work-opcao-menu
181                 when 0101
182                     perform 2110-cad-inc-cli
183                 when 0102
184                     perform 2120-cad-alt-cli
185                 when 0103
186                     perform 2130-cad-exc-cli
187                 when 0104
188                     perform 2140-cad-importacao
189                 when 9999
190                     exit perform
191              end-evaluate
192            .
193       2100-exit.
194      *=============================================================
195       2110-cad-inc-cli             section.
196
197              display tela-02-cad-cli-inc
198
199              accept rs-cod-cli      at 1534
200              accept rs-cnpj         at 1634
201
202              move   rs-cnpj                      to wk-2115-cnpj-cpf
203              move   1                      to wk-2115-tipo-cad
204              perform 2115-consulta-cnpj            *> Consiste
205              if ws-status-arq equal 99
206                  exit perform
207              end-if
208
209              accept rs-razao-social     at 1734
210              accept rs-latitude-cli     at 1834
211              accept rs-longitude-cli    at 1934
212
213              open extend  arq-cliente
214              if ws-resultado-acesso equal "00"
```

```cobol
215                    write arq-cliente from rs-arq-cli
216                end-if
217
218                close arq-cliente
219
220        2110-exit.
221     *================================================================
222      2115-consulta-cnpj          section.
223
224                if wk-2115-tipo-cad equal 1        *> tipo cliente
225                    if wk-2115-cnpj-cpf < 14
226                        move 99          to ws-status-arq
227                        display "cnpj invalido"
228                        exit section
229                    end-if
230                end-if
231
232                if wk-2115-tipo-cad equal 2        *> tipo vendedor
233                    if wk-2115-cnpj-cpf < 11
234                        move 99          to ws-status-arq
235                        display "CPF invalido"
236                        exit section
237                    end-if
238                end-if
239
240                perform until ws-status-arq <> 00
241                        read arqclientes next
242                        if w-cod-cnpj equal w-reg-cpf-cnpj
243                            move 99            ws-status-arq
244                            display "ja existe cnpj ou cpf cadastrado!"
245                            exit perform
246                        end-if
247                end-perform
248
249        2115-exit.
250     *================================================================
251      2120-cad-alt-cli          section.
252            initialize rs-arq-cli
253
254            open i-o  arq-cliente
255            if ws-resultado-acesso equal "00"
256                display  "Entre Codigo Cliente para alterar:"
257                accept rs-cod-cli
258                start arq-cliente key is = rs-cod-cli
259                if ws-resultado-acesso equal "00"
260                    read arq-cliente
261                    display tela-02-cad-cli-inc
262                    accept rs-cod-cli      at 1534
263                    accept rs-cnpj         at 1634
264                    move   rs-cnpj         to wk-2115-cnpj-cpf
265                    move   1               to wk-2115-tipo-cad
266                    perform 2115-consulta-cnpj        *> Consiste
267                    if ws-status-arq equal 99
268                        exit perform
269                    end-if
270
271                    accept rs-razao-social     at 1734
272                    accept rs-latitude-cli     at 1834
273                    accept rs-longitude-cli    at 1934
274
275                    rewrite arq-cliente from rs-arq-cli
276                end-if
277            end-if
278        2120-exit.
279            exit.
280     *================================================================
281      2130-cad-exc-cli          section.
282
283            initialize rs-arq-cli
284
285            open i-o  arq-cliente
286            if ws-resultado-acesso equal "00"
287                display  "Entre Codigo Cliente para excluir:"
```

```cobol
288                    accept rs-cod-cli
289
290                              start arq-cliente key is = rs-cod-cli
291                              if ws-resultado-acesso equal "00"
292                        read arq-cliente
293                                 display tela-02-cad-cli-inc
294
295                    display "Deseja Excluir registro (s / n)"
296                    accept wk-opcao
297                    if wk-opcao equal 'S' or 's'
298              delete arq-cliente from rs-arq-cli
299                    end-if
300                              end-if
301              end-if.
302         2130-exit.
303              exit.
     *=================================================================
305         2140-cad-importacao           section.
306
307              initialize ws-status-arq
308              display tela-02-importacao
309              accept w-arq-caminho-importar
310
311              if w-arq-caminho-importar is null
312                  display "Caminho vazio do arquivo importar"
313                  exit perform
314              end-if
315
316              if wk-opcao equal 0104    *> Cliente
317                  open i-o arq-cliente
318                  open i-o arq-imp-cli
319                  if ws-resultado-acesso equal 00 then
320                      perform until ws-resultado-acesso not equal zeros
321                                  read arq-imp-cli next
322                                  move rs-imp-cod-cli        to rs-cod-cli
323                                  move rs-imp-cnpj           to rs-cnpj
324                                  move rs-imp-razao-social     to
     rs-razao-social
325                                  move rs-imp-lat-cli        to
     rs-latitude-cli
326                                  move rs-imp-long-cli       to
     rs-longitude-cli
327                                  write arq-cliente from rs-arq-cli
328                      end-perform
329                  end-if
330                  close arq-cliente
331                  close arq-imp-cli
332                          else
333                  open i-o arq-vendedor
334                  open i-o arq-imp-vend
335                  if ws-resultado-acesso equal 00 then
336                      perform until ws-resultado-acesso not equal zeros
337                          read arq-imp-vend next
338                          move rs-imp-cod-vend       to rs-cod-vend
339                          move rs-imp-cpf            to rs-cpf
340                          move rs-imp-nome           to rs-nome
341                          move rs-imp-lat-vend       to rs-latitude-vend
342                          move rs-imp-long-vend      to rs-latitude-vend
343                          write arq-vendedor from rs-arq-vend
344                      end-perform
345                  end-if
346                  close arq-vendedor
347                  close arq-imp-vend
348              end-if
349         2140-exit.
350              exit.
351
     *=================================================================
353         2200-cadastro-vendedor        section.
354              initialize wk-opcao
355              display tela-02-cadastro-vendedor
356              accept  wk-opcao   at 1447 with upper
357                               auto-skip highlight.
```

```cobol
358              if esc
359                  exit perform;
360              end-if
361
362              evaluate work-opcao-menu
363                  when 0101
364                      perform 2210-cad-incl-vend
365                  when 0102
366                      perform 2220-cad-alt-vend
367                  when 0103
368                      perform 2230-cad-exc-vend
369                  when 0104
370                      perform 2140-cad-importacao
371                  when 9999
372                      exit perform
373              end-evaluate
374          2200-exit.
375              exit.
376
377      *================================================================
378          2210-cad-incl-vend            section.
379
380              display tela-02-cad-vend-inc
381              accept rs-cod-cli       at 1534
382              accept rs-cnpj          at 1634
383
384              move   rs-cnpj                      to wk-2115-cnpj-cpf
385              move   1                         to wk-2115-tipo-cad
386              perform 2115-consulta-cnpj       *> Consiste
387              if ws-status-arq equal 99
388                  exit perform
389              end-if
390
391              accept rs-razao-social    at 1734
392              accept rs-latitude-cli    at 1834
393              accept rs-longitude-cli   at 1934
394
395              open extend  arq-cliente
396              if ws-resultado-acesso equal "00"
397                  write arq-cliente from rs-arq-cli
398              end-if
399
400              close arq-cliente
401
402          2210-exit.
403              exit.
404      *================================================================
405          2220-cad-alt-vend            section.
406              initialize rs-arq-vend
407              open i-o  arq-cliente
408              if ws-resultado-acesso equal "00"
409                  display  "Entre Codigo Cliente para alterar:"
410                  accept rs-cod-cli
411                  start arq-cliente key is = rs-cod-cli
412                  if ws-resultado-acesso equal "00"
413                      read arq-cliente
414                              display tela-02-cad-cli-inc
415                      accept rs-cod-cli      at 1534
416                      accept rs-cnpj         at 1634
417                              move   rs-cnpj                      to
    wk-2115-cnpj-cpf
418                      move   1                       to wk-2115-tipo-cad
419                      perform 2115-consulta-cnpj    *> Consiste
420                      if ws-status-arq equal 99
421                          exit perform
422                      end-if
423                      accept rs-razao-social    at 1734
424                      accept rs-latitude-cli    at 1834
425                      accept rs-longitude-cli   at 1934
426
427                      rewrite arq-cliente from rs-arq-cli
428                  end-if
429              end-if
```

```cobol
430     .
431              2220-exit.
432                   exit.
433
434         *=================================================================
435          2230-cad-exc-vend              section.
436
437                   initialize rs-arq-cli
438
439                   open i-o  arq-cliente
440                   if ws-resultado-acesso equal "00"
441                       display  "Entre Codigo Cliente para excluir:"
442                       accept rs-cod-cli
443
444                       start arq-cliente key is = rs-cod-cli
445                       if ws-resultado-acesso equal "00"
446                           read arq-cliente
447                           display tela-02-cad-cli-inc
448
449                           display "Deseja Excluir registro (s / n)"
450                           accept wk-opcao
451                           if wk-opcao equal 'S' or 's'
452                               delete arq-cliente from rs-arq-cli
453                           end-if
454                       end-if
455                   end-if
456     .
457          2230-exit.
458                   exit.
459         *=================================================================
460          2300-relatorio-cliente        section.
461                   initialize              ws-opcao
462
463                   display tela-03-relatorio-cliente
464                   accept ws-opcao
465
466                   evaluate ws-opcao
467
468                   when 0101
469                   when 0102
470                       perform 2311-lista-cli-asc-desc
471                   when 0103
472                       perform 2313-filtro-por-cod-cli
473                   when 0104
474                       perform 2314-filtro-por-razao
475                   end-evaluate.
476
477          2300-exit.
478                   exit.
479
480         *=================================================================
481          2311-lista-cli-asc-desc    section.
482                   initialize rs-cod-cli
483
484                   open input arq-cliente
485                   if ws-resultado-acesso equal zeros
486
487                       if ws-opcao equal 0101                        *> Ascendente
488                           start arq-cliente key is >= rs-cod-cli
489                       else
490                           initialize rs-cod-cli                     *> Descendente
491                           move 9999                        to rs-cod-cli
492                           start arq-cliente key is <= rs-cod-cli
493                       end-if
494                       display "Codigo;CNPJ;Razao Social;Latitude;Longitude"
495                       perform until ws-resultado-acesso not equal zeros
496                               read next arq-cliente
497                               display rs-arq-cli
498                       end-perform
499                   end-if
500          2311-exit.
501                   exit.
502
```

```cobol
503          *================================================================
504           2313-filtro-por-cod-cli
505              display tela-limpa
506
507              open input arq-clientes
508              if ws-resultado-acesso equal zeros
509                  display "Entre Codigo Cliente para filtra relatorio:"
510                  accept rs-cod-cli
511                  start arq-cliente key is = rs-cod-cli
512                  read  arq-cliente
513                  display rs-arq-cliente
514                              close arq-clientes
515              end-if.
516
517           2313-exit.
518              exit.
519
520          *================================================================
521           2314-filtro-por-razao
522              display tela-limpa
523
524              open input arq-clientes
525              if ws-resultado-acesso equal zeros
526                  display "Entre Razao Social Cliente para filtra relatorio:"
527                  accept rs-razao-social
528
529                  start arq-cliente key is = rs-razao-social
530                  read  arq-cliente
531                  display rs-arq-cliente
532                              close arq-clientes
533              end-if.
534
535           2314-exit.
536              exit.
537
538          *================================================================
539           2400-relatorio-vendedor      section.
540                          initialize            ws-opcao
541
542              display tela-03-relatorio-vendedor
543              accept ws-opcao
544
545                          evaluate ws-opcao
546              when 0201
547              when 0202
548                      perform 2422-lista-vend-asc-desc
549              when 0203
550                      perform 2423-filtro-por-cod-vend
551              when 0204
552                      perform 2424-filtro-por-nome
553              end-evaluate.
554           2400-exit.
555              exit.
556
557          *================================================================
558           2422-lista-vend-asc-desc     section.
559              initialize rs-arq-vend
560
561              open input arq-vendedor
562              if ws-resultado-acesso equal zeros
563                  if ws-opcao equal 0101                    *> Ascendente
564                      start arq-cliente key is >= rs-cod-vend
565                  else                                      *> Descendente
566                      move 9999                          to rs-cod-vend
567                      start arq-cliente key is <= rs-cod-vend
568                  end-if
569                  display "Codigo;CPF;NOME;Latitude;Longitude"
570                  perform until ws-resultado-acesso not equal zeros
571                          read next arq-vendedor
572                          display rs-arq-vend
573                  end-perform
574              end-if
575           2422-exit.
```

```cobol
576              exit.
577
578      *================================================================
579       2423-filtro-por-cod-vend       section.
580            display tela-limpa
581
582            open input arq-vendedor
583            if ws-resultado-acesso equal zeros
584               display "Entre Codigo Vendedor para filtra relatorio:"
585               accept rs-cod-vend
586               start arq-vendedor key is = rs-cod-vend
587               read  arq-vendedor
588               display rs-arq-vendedor
589                           close arq-vendedor
590            end-if.
591       2423-exit.
592            exit.
593
594      *================================================================
595       2424-filtro-por-razao
596            display tela-limpa
597            open input arq-vendedor
598            if ws-resultado-acesso equal zeros
599               display "Entre Nome Vendedor para filtra relatorio:"
600               accept rs-nome
601               start arq-vendedor key is = rs-nome
602               read  arq-vendedor
603               display rs-arq-vendedor
604                           close arq-vendedor
605            end-if.
606       2424-exit.
607            exit.
608
609      *================================================================
610       2800-distrib-clientes          section.
611                      move     work-nomearq     to  lk-caminho.
612         move     zeros              to  lk-regfunc.
613         call     "/hbsis/modulo/pw00900" using lk-rot405.
614         cancel   "pw00900".
615       2800-exit.
616            exit.
617
618      *================================================================
619       3000-finaliza                  section.
620            exit      program
621            stop      run
622            .
623       3000-exit.
624            exit.
```