Tidy Data

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First example of tidy data.

library(gapminder)  
  
gapminder

## # A tibble: 1,704 x 6  
## country continent year lifeExp pop gdpPercap  
## <fct> <fct> <int> <dbl> <int> <dbl>  
## 1 Afghanistan Asia 1952 28.8 8425333 779.  
## 2 Afghanistan Asia 1957 30.3 9240934 821.  
## 3 Afghanistan Asia 1962 32.0 10267083 853.  
## 4 Afghanistan Asia 1967 34.0 11537966 836.  
## 5 Afghanistan Asia 1972 36.1 13079460 740.  
## 6 Afghanistan Asia 1977 38.4 14880372 786.  
## 7 Afghanistan Asia 1982 39.9 12881816 978.  
## 8 Afghanistan Asia 1987 40.8 13867957 852.  
## 9 Afghanistan Asia 1992 41.7 16317921 649.  
## 10 Afghanistan Asia 1997 41.8 22227415 635.  
## # ... with 1,694 more rows

Second example of tidy data.

library(babynames)  
  
babynames

## # A tibble: 1,858,689 x 5  
## year sex name n prop  
## <dbl> <chr> <chr> <int> <dbl>  
## 1 1880 F Mary 7065 0.0724  
## 2 1880 F Anna 2604 0.0267  
## 3 1880 F Emma 2003 0.0205  
## 4 1880 F Elizabeth 1939 0.0199  
## 5 1880 F Minnie 1746 0.0179  
## 6 1880 F Margaret 1578 0.0162  
## 7 1880 F Ida 1472 0.0151  
## 8 1880 F Alice 1414 0.0145  
## 9 1880 F Bertha 1320 0.0135  
## 10 1880 F Sarah 1288 0.0132  
## # ... with 1,858,679 more rows

[HELP Codebook](http://nhorton.people.amherst.edu/help)

library(mosaicData)  
  
HELPrct

## age anysubstatus anysub cesd d1 daysanysub dayslink drugrisk e2b  
## 1 37 1 yes 49 3 177 225 0 NA  
## 2 37 1 yes 30 22 2 NA 0 NA  
## 3 26 1 yes 39 0 3 365 20 NA  
## 4 39 1 yes 15 2 189 343 0 1  
## 5 32 1 yes 39 12 2 57 0 1  
## 6 47 1 yes 6 1 31 365 0 NA  
## 7 49 NA <NA> 52 14 NA 334 0 1  
## 8 28 1 yes 32 1 47 365 7 8  
## 9 50 1 yes 50 14 31 365 18 7  
## 10 39 1 yes 46 4 115 382 20 3  
## 11 34 NA <NA> 46 0 NA 365 8 NA  
## 12 58 0 no 49 3 192 365 0 NA  
## 13 58 1 yes 22 5 6 365 0 NA  
## 14 60 1 yes 36 10 6 22 0 1  
## 15 36 1 yes 43 2 0 443 0 NA  
## 16 28 1 yes 35 6 27 41 0 2  
## 17 35 1 yes 19 1 2 405 0 NA  
## 18 29 0 no 40 2 220 449 0 1  
## 19 27 0 no 52 0 198 49 10 4  
## 20 27 1 yes 37 1 52 367 0 NA  
## 21 41 NA <NA> 35 1 NA 391 12 1  
## 22 33 1 yes 18 1 129 272 0 NA  
## 23 34 NA <NA> 36 4 NA 293 0 2  
## 24 31 1 yes 28 2 3 428 0 3  
## 25 48 1 yes 19 4 67 365 0 NA  
## 26 34 1 yes 30 1 154 56 0 NA  
## 27 35 1 yes 27 0 34 361 1 NA  
## 28 34 0 no 24 0 204 365 0 NA  
## 29 29 1 yes 47 1 142 79 0 3  
## 30 35 0 no 45 2 189 364 0 NA  
## 31 43 1 yes 18 10 4 365 0 NA  
## 32 37 0 no 11 0 203 203 3 NA  
## 33 29 0 no 26 1 193 354 0 NA  
## 34 33 1 yes 29 1 10 29 0 NA  
## 35 20 1 yes 34 1 177 365 0 NA  
## 36 38 0 no 37 2 195 365 0 3  
## 37 28 1 yes 23 0 7 365 1 2  
## 38 33 1 yes 41 7 14 365 0 3  
## 39 40 NA <NA> 21 0 NA 365 1 NA  
## 40 43 0 no 16 15 191 414 0 NA  
## 41 28 1 yes 36 1 31 414 0 NA  
## 42 45 0 no 17 2 174 43 0 2  
## 43 42 1 yes 36 2 17 38 7 NA  
## 44 30 NA <NA> 19 0 NA 264 0 NA  
## 45 34 1 yes 5 2 23 14 0 NA  
## 46 36 1 yes 25 2 2 377 0 NA  
## 47 44 NA <NA> 36 5 NA 321 19 1  
## 48 41 1 yes 27 0 30 NA 0 NA  
## 49 30 0 no 44 2 209 26 21 2  
## 50 37 1 yes 29 2 111 18 0 NA  
## 51 35 1 yes 46 3 17 365 0 NA  
## 52 37 1 yes 16 5 137 171 0 NA  
## 53 44 1 yes 44 1 4 27 0 NA  
## 54 47 1 yes 42 2 3 190 0 4  
## 55 38 1 yes 30 5 18 30 0 2  
## 56 37 1 yes 25 0 2 365 1 NA  
## 57 34 1 yes 26 1 1 365 0 11  
## 58 41 0 no 29 3 181 19 0 2  
## 59 29 0 no 33 3 180 365 1 4  
## 60 35 1 yes 28 1 36 400 0 1  
## 61 36 NA <NA> 33 0 NA 365 0 1  
## 62 27 0 no 44 3 252 431 0 1  
## 63 36 0 no 29 1 195 195 0 1  
## 64 40 0 no 57 5 181 34 0 NA  
## 65 38 NA <NA> 26 4 NA 133 1 NA  
## 66 42 1 yes 31 2 103 48 8 3  
## 67 26 NA <NA> 30 4 NA NA 0 NA  
## 68 41 1 yes 43 0 2 NA 10 NA  
## 69 43 1 yes 28 10 78 365 0 NA  
## 70 28 1 yes 29 3 9 129 0 2  
## 71 30 1 yes 32 2 53 NA 3 NA  
## 72 42 NA <NA> 30 4 NA 35 0 NA  
## 73 22 1 yes 34 7 4 365 0 1  
## 74 31 NA <NA> 49 2 NA 439 3 1  
## 75 30 0 no 36 0 177 44 0 3  
## 76 25 NA <NA> 42 1 NA 365 1 1  
## 77 26 1 yes 40 1 4 77 10 NA  
## 78 35 1 yes 29 1 47 35 0 1  
## 79 53 1 yes 31 3 5 365 0 1  
## 80 29 NA <NA> 10 2 NA 143 0 NA  
## 81 32 1 yes 37 2 175 365 0 NA  
## 82 24 1 yes 32 2 168 115 3 1  
## 83 35 1 yes 16 1 20 386 1 3  
## 84 32 1 yes 15 0 55 365 0 NA  
## 85 47 1 yes 4 2 56 63 1 NA  
## 86 26 NA <NA> 30 2 NA 365 0 NA  
## 87 45 1 yes 44 2 63 35 14 1  
## 88 33 NA <NA> 8 1 NA NA 0 NA  
## 89 45 NA <NA> 16 20 NA 365 0 2  
## 90 33 NA <NA> 47 9 NA 38 0 3  
## 91 27 1 yes 49 1 222 136 0 NA  
## 92 40 1 yes 30 2 9 37 1 NA  
## 93 40 NA <NA> 36 1 NA 217 0 1  
## 94 37 1 yes 48 3 16 349 0 NA  
## 95 26 1 yes 17 1 59 NA 0 NA  
## 96 27 1 yes 39 0 102 365 0 3  
## 97 35 NA <NA> 30 2 NA 16 0 NA  
## 98 29 NA <NA> 24 0 NA NA 10 2  
## 99 33 NA <NA> 25 2 NA 60 0 NA  
## 100 39 1 yes 51 3 2 365 0 5  
## 101 33 1 yes 17 3 3 365 7 NA  
## 102 35 1 yes 37 20 63 399 0 NA  
## 103 38 NA <NA> 45 0 NA NA 0 1  
## 104 44 1 yes 28 1 47 112 17 1  
## 105 28 NA <NA> 17 3 NA 365 0 NA  
## 106 33 NA <NA> 23 0 NA NA 0 NA  
## 107 30 0 no 39 0 201 18 0 1  
## 108 35 1 yes 38 2 114 365 0 4  
## 109 32 NA <NA> 53 15 NA 41 0 NA  
## 110 42 0 no 26 10 183 358 0 2  
## 111 37 0 no 47 0 183 169 0 NA  
## 112 41 NA <NA> 49 4 NA 365 0 1  
## 113 28 1 yes 34 5 0 325 17 2  
## 114 30 NA <NA> 51 9 NA NA 9 1  
## 115 35 1 yes 33 2 2 345 0 14  
## 116 35 NA <NA> 58 5 NA 17 0 2  
## 117 41 1 yes 28 1 17 104 0 NA  
## 118 37 0 no 4 2 183 36 0 NA  
## 119 30 1 yes 15 1 15 365 0 NA  
## 120 39 1 yes 40 3 11 365 0 4  
## 121 32 NA <NA> 33 2 NA NA 0 NA  
## 122 50 0 no 35 6 178 49 0 NA  
## 123 33 NA <NA> 28 1 NA 90 0 2  
## 124 27 1 yes 21 0 163 169 0 NA  
## 125 33 1 yes 33 0 7 399 1 NA  
## 126 38 NA <NA> 26 4 NA 28 0 NA  
## 127 43 1 yes 45 6 4 358 0 8  
## 128 24 1 yes 45 0 68 365 0 1  
## 129 35 1 yes 31 10 185 387 0 1  
## 130 49 NA <NA> 28 13 NA 193 0 1  
## 131 49 1 yes 22 5 1 126 0 4  
## 132 33 NA <NA> 39 1 NA 365 1 1  
## 133 24 0 no 31 0 183 52 9 1  
## 134 28 1 yes 48 4 12 413 0 NA  
## 135 45 0 no 48 2 185 50 0 7  
## 136 46 NA <NA> 34 20 NA NA 0 NA  
## 137 37 NA <NA> 35 1 NA 106 0 NA  
## 138 32 0 no 46 2 183 42 0 NA  
## 139 45 NA <NA> 34 1 NA 303 11 2  
## 140 39 0 no 10 0 186 30 0 1  
## 141 34 1 yes 31 1 146 113 0 NA  
## 142 32 NA <NA> 34 2 NA 365 0 3  
## 143 32 1 yes 26 2 5 369 0 1  
## 144 31 1 yes 15 1 31 365 0 NA  
## 145 45 NA <NA> 48 1 NA 98 0 2  
## 146 30 NA <NA> 37 1 NA 338 0 NA  
## 147 36 1 yes 20 8 57 365 7 1  
## 148 25 1 yes 38 3 0 414 8 1  
## 149 48 0 no 39 8 178 58 0 NA  
## 150 42 0 no 46 1 256 368 0 1  
## 151 33 1 yes 17 1 61 364 0 1  
## 152 36 NA <NA> 6 1 NA 365 1 NA  
## 153 41 NA <NA> 18 4 NA 365 0 NA  
## 154 30 1 yes 29 2 12 365 0 NA  
## 155 57 NA <NA> 51 10 NA 365 0 NA  
## 156 57 1 yes 39 4 28 380 0 1  
## 157 47 NA <NA> 31 2 NA 365 5 NA  
## 158 54 1 yes 49 0 0 38 0 4  
## 159 55 0 no 43 1 164 31 0 NA  
## 160 33 1 yes 45 1 13 330 10 1  
## 161 29 NA <NA> 46 6 NA 365 5 3  
## 162 33 NA <NA> 44 4 NA 427 0 NA  
## 163 28 NA <NA> 41 3 NA 443 11 2  
## 164 37 0 no 29 2 163 29 0 NA  
## 165 28 1 yes 38 3 117 218 0 NA  
## 166 32 NA <NA> 51 1 NA 365 0 NA  
## 167 31 NA <NA> 38 10 NA 405 20 1  
## 168 36 NA <NA> 53 3 NA 45 0 3  
## 169 39 NA <NA> 29 2 NA 14 0 2  
## 170 29 NA <NA> 31 1 NA 424 13 1  
## 171 38 NA <NA> 57 4 NA 370 0 NA  
## 172 33 NA <NA> 38 0 NA NA 0 2  
## 173 31 NA <NA> 39 10 NA 17 2 NA  
## 174 39 NA <NA> 43 1 NA 365 13 1  
## 175 33 1 yes 19 40 3 146 0 1  
## 176 31 1 yes 23 0 9 15 0 NA  
## 177 46 1 yes 44 1 144 14 0 6  
## 178 36 1 yes 12 1 11 140 0 NA  
## 179 22 1 yes 35 0 1 365 0 4  
## 180 33 1 yes 47 2 27 365 0 2  
## 181 35 NA <NA> 53 2 NA 365 14 2  
## 182 38 1 yes 34 1 0 348 14 1  
## 183 28 NA <NA> 15 1 NA 48 0 NA  
## 184 33 NA <NA> 31 2 NA 32 0 2  
## 185 49 1 yes 27 2 61 365 0 NA  
## 186 43 NA <NA> 36 1 NA 18 0 NA  
## 187 33 1 yes 24 6 2 365 1 NA  
## 188 29 NA <NA> 54 0 NA 407 4 NA  
## 189 34 0 no 31 2 183 30 0 NA  
## 190 41 NA <NA> 22 4 NA 365 0 NA  
## 191 47 0 no 41 1 190 78 0 NA  
## 192 24 NA <NA> 23 0 NA 365 0 NA  
## 193 31 NA <NA> 18 3 NA NA 8 1  
## 194 40 NA <NA> 60 7 NA 406 0 NA  
## 195 32 0 no 34 3 184 365 0 NA  
## 196 32 0 no 26 4 192 22 0 3  
## 197 39 NA <NA> 40 1 NA 365 0 1  
## 198 19 NA <NA> 40 1 NA 63 0 8  
## 199 49 1 yes 1 2 166 78 0 NA  
## 200 27 NA <NA> 41 4 NA 365 1 4  
## 201 38 0 no 38 3 247 365 0 1  
## 202 32 1 yes 37 1 82 348 0 NA  
## 203 22 0 no 16 1 162 357 0 NA  
## 204 36 1 yes 33 3 47 12 0 NA  
## 205 32 1 yes 4 0 88 50 0 NA  
## 206 35 NA <NA> 24 1 NA 365 0 NA  
## 207 35 0 no 34 1 172 136 0 NA  
## 208 41 1 yes 40 2 63 22 0 NA  
## 209 36 1 yes 39 2 94 7 0 NA  
## 210 43 1 yes 32 2 73 70 0 NA  
## 211 45 1 yes 40 5 7 365 0 1  
## 212 39 1 yes 51 4 33 331 0 NA  
## 213 47 NA <NA> 39 2 NA 365 1 3  
## 214 32 1 yes 40 6 183 76 0 NA  
## 215 33 1 yes 22 0 9 183 0 NA  
## 216 39 1 yes 42 4 215 428 0 NA  
## 217 44 NA <NA> 13 0 NA 365 0 NA  
## 218 35 NA <NA> 49 4 NA 43 0 1  
## 219 31 1 yes 35 1 32 307 1 3  
## 220 25 NA <NA> 43 0 NA 365 0 NA  
## 221 48 1 yes 27 1 74 353 0 6  
## 222 35 NA <NA> 40 1 NA 37 0 NA  
## 223 42 NA <NA> 38 4 NA 349 0 2  
## 224 51 1 yes 39 6 4 272 0 4  
## 225 55 1 yes 30 2 11 40 0 2  
## 226 32 1 yes 35 6 70 37 0 NA  
## 227 41 1 yes 34 2 2 365 0 3  
## 228 34 NA <NA> 19 1 NA 329 0 NA  
## 229 30 NA <NA> 39 2 NA 442 0 NA  
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## 232 41 NA <NA> 38 2 NA 24 2 NA  
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## 235 36 NA <NA> 31 10 NA 365 0 1  
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## 237 36 NA <NA> 32 2 NA 434 10 NA  
## 238 30 1 yes 33 1 59 12 0 NA  
## 239 40 1 yes 39 1 16 294 0 NA  
## 240 27 1 yes 33 0 4 365 0 2  
## 241 39 NA <NA> 27 1 NA 21 0 NA  
## 242 39 0 no 43 4 170 350 0 2  
## 243 37 1 yes 30 1 2 440 0 5  
## 244 43 1 yes 12 4 11 236 0 4  
## 245 20 1 yes 42 1 20 365 0 NA  
## 246 35 1 yes 31 2 32 35 5 17  
## 247 32 NA <NA> 40 6 NA 29 11 2  
## 248 42 0 no 17 0 188 456 0 NA  
## 249 27 NA <NA> 44 0 NA 279 0 NA  
## 250 30 NA <NA> 15 2 NA 365 0 NA  
## 251 27 NA <NA> 41 0 NA 365 8 3  
## 252 41 NA <NA> 51 3 NA 349 0 NA  
## 253 32 1 yes 24 20 7 46 6 1  
## 254 47 1 yes 29 1 31 368 0 1  
## 255 36 NA <NA> 40 2 NA 365 0 2  
## 256 32 1 yes 33 2 2 365 0 1  
## 257 33 1 yes 51 1 5 365 1 6  
## 258 30 NA <NA> 30 6 NA 83 0 NA  
## 259 29 NA <NA> 46 0 NA 79 8 NA  
## 260 34 NA <NA> 38 2 NA 365 8 NA  
## 261 34 1 yes 42 0 52 365 1 2  
## 262 40 NA <NA> 17 2 NA 365 0 2  
## 263 45 NA <NA> 22 3 NA 365 7 21  
## 264 37 0 no 37 2 179 41 0 NA  
## 265 32 NA <NA> 11 2 NA 17 0 NA  
## 266 26 NA <NA> 56 2 NA 365 0 NA  
## 267 31 1 yes 14 0 2 365 0 1  
## 268 39 1 yes 26 0 94 425 0 NA  
## 269 49 1 yes 36 1 94 365 0 NA  
## 270 45 1 yes 41 0 33 365 4 1  
## 271 43 NA <NA> 18 0 NA 365 10 NA  
## 272 38 NA <NA> 19 1 NA 365 0 NA  
## 273 23 1 yes 48 1 2 365 0 2  
## 274 35 1 yes 45 3 1 26 0 1  
## 275 23 1 yes 44 20 45 207 0 NA  
## 276 42 NA <NA> 52 3 NA 63 0 NA  
## 277 29 NA <NA> 19 1 NA 318 0 NA  
## 278 43 1 yes 9 2 0 365 0 2  
## 279 29 NA <NA> 55 0 NA 365 0 NA  
## 280 39 1 yes 18 0 16 358 0 2  
## 281 32 1 yes 45 4 1 427 0 2  
## 282 35 NA <NA> 12 1 NA 441 0 2  
## 283 22 1 yes 33 2 3 30 0 NA  
## 284 39 1 yes 32 1 132 41 0 NA  
## 285 38 1 yes 20 1 NA 285 0 2  
## 286 56 1 yes 37 36 0 412 3 11  
## 287 36 1 yes 39 1 136 324 0 2  
## 288 40 NA <NA> 43 1 NA 15 17 2  
## 289 22 1 yes 51 2 2 374 9 1  
## 290 39 NA <NA> 27 5 NA 293 8 4  
## 291 47 1 yes 40 2 3 365 0 NA  
## 292 32 1 yes 8 3 30 373 0 1  
## 293 41 1 yes 54 3 1 356 4 NA  
## 294 32 0 no 35 1 191 21 0 NA  
## 295 37 NA <NA> 58 8 NA 365 0 2  
## 296 41 0 no 50 2 174 17 1 1  
## 297 31 1 yes 55 5 65 365 0 1  
## 298 33 1 yes 19 0 64 33 0 NA  
## 299 30 1 yes 37 6 8 303 16 1  
## 300 32 1 yes 20 1 93 449 0 1  
## 301 35 NA <NA> 40 1 NA 77 0 NA  
## 302 32 NA <NA> 37 1 NA 35 0 3  
## 303 33 NA <NA> 43 0 NA 365 0 2  
## 304 30 1 yes 8 8 5 32 1 NA  
## 305 44 NA <NA> 56 3 NA 365 0 2  
## 306 46 1 yes 51 0 62 365 0 2  
## 307 43 0 no 7 0 187 41 0 NA  
## 308 47 NA <NA> 36 4 NA 365 13 5  
## 309 34 1 yes 49 0 93 32 0 NA  
## 310 47 1 yes 54 1 4 349 8 NA  
## 311 40 1 yes 53 2 1 393 0 7  
## 312 34 1 yes 15 15 5 NA 0 NA  
## 313 48 1 yes 53 4 0 302 0 3  
## 314 37 1 yes 6 5 1 364 1 NA  
## 315 35 1 yes 54 1 5 365 13 NA  
## 316 38 NA <NA> 42 4 NA 337 0 NA  
## 317 27 NA <NA> 31 1 NA 31 0 1  
## 318 39 0 no 40 0 178 9 4 NA  
## 319 23 1 yes 37 1 0 359 20 4  
## 320 35 0 no 36 0 178 361 0 NA  
## 321 53 0 no 40 2 175 80 19 2  
## 322 31 NA <NA> 41 1 NA 365 0 NA  
## 323 32 1 yes 39 0 15 14 0 1  
## 324 33 0 no 38 1 219 398 0 1  
## 325 25 1 yes 38 0 1 40 1 1  
## 326 37 NA <NA> 9 1 NA 40 0 NA  
## 327 26 1 yes 36 0 18 74 0 NA  
## 328 29 NA <NA> 27 0 NA 308 5 2  
## 329 30 0 no 26 1 215 7 0 NA  
## 330 47 NA <NA> 52 8 NA 365 0 2  
## 331 33 NA <NA> 24 1 NA 300 0 NA  
## 332 36 1 yes 16 1 125 361 0 1  
## 333 23 NA <NA> 34 3 NA 393 0 1  
## 334 36 1 yes 46 8 5 9 0 5  
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## 336 28 1 yes 25 2 1 365 0 2  
## 337 33 NA <NA> 40 4 NA 21 0 NA  
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## 351 27 NA <NA> 40 1 NA 365 3 2  
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## 364 30 1 yes 16 0 30 365 0 NA  
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## 368 39 0 no 52 2 268 449 0 NA  
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## 370 37 0 no 11 1 210 370 0 2  
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## 372 44 1 yes 41 3 0 365 0 1  
## 373 38 0 no 37 1 165 166 1 NA  
## 374 37 1 yes 31 2 2 89 0 3  
## 375 43 1 yes 34 4 2 418 5 NA  
## 376 39 1 yes 40 8 0 247 0 3  
## 377 45 1 yes 37 2 2 322 3 NA  
## 378 39 0 no 30 8 154 265 0 NA  
## 379 31 1 yes 42 1 15 365 0 NA  
## 380 32 1 yes 51 0 5 NA 6 3  
## 381 42 1 yes 42 5 33 98 0 NA  
## 382 33 NA <NA> 15 0 NA 365 0 NA  
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## 384 24 1 yes 39 2 32 365 0 3  
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## 386 38 NA <NA> 33 1 NA 286 1 NA  
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## female sex g1b homeless i1 i2 id indtot linkstatus link  
## 1 0 male yes housed 13 26 1 39 1 yes  
## 2 0 male yes homeless 56 62 2 43 NA <NA>  
## 3 0 male no housed 0 0 3 41 0 no  
## 4 1 female no housed 5 5 4 28 0 no  
## 5 0 male no homeless 10 13 5 38 1 yes  
## 6 1 female no housed 4 4 6 29 0 no  
## 7 1 female yes housed 13 20 7 38 0 no  
## 8 0 male yes homeless 12 24 8 44 0 no  
## 9 1 female no homeless 71 129 9 44 0 no  
## 10 0 male no homeless 20 27 10 44 0 no  
## 11 1 female no housed 0 0 11 34 0 no  
## 12 1 female no housed 13 13 12 11 0 no  
## 13 0 male no homeless 20 31 14 40 0 no  
## 14 0 male no homeless 13 20 15 41 1 yes  
## 15 0 male no housed 51 51 16 38 0 no  
## 16 1 female yes homeless 0 0 17 26 1 yes  
## 17 0 male no housed 0 0 18 17 0 no  
## 18 0 male yes homeless 1 1 19 40 0 no  
## 19 1 female yes housed 9 24 20 37 1 yes  
## 20 0 male no housed 23 23 21 37 0 no  
## 21 0 male no housed 26 26 22 36 0 no  
## 22 0 male no housed 0 0 23 27 1 yes  
## 23 0 male yes homeless 34 34 24 42 0 no  
## 24 0 male no homeless 4 5 25 42 0 no  
## 25 1 female no housed 6 8 27 40 0 no  
## 26 0 male no housed 3 3 28 34 1 yes  
## 27 0 male no homeless 7 7 30 37 0 no  
## 28 0 male yes housed 24 48 31 41 0 no  
## 29 0 male no homeless 0 0 32 37 1 yes  
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## 31 0 male no homeless 3 3 34 41 0 no  
## 32 0 male no homeless 6 6 35 35 1 yes  
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## 34 0 male no housed 0 0 37 30 1 yes  
## 35 0 male no homeless 32 135 38 33 0 no  
## 36 0 male no housed 2 24 39 43 0 no  
## 37 0 male no housed 3 3 40 41 0 no  
## 38 0 male yes homeless 27 27 42 41 0 no  
## 39 0 male no housed 3 7 43 32 0 no  
## 40 0 male no homeless 24 36 44 41 0 no  
## 41 0 male no homeless 6 12 45 39 0 no  
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## 43 0 male no housed 13 13 47 39 1 yes  
## 44 0 male no homeless 25 28 49 38 1 yes  
## 45 1 female no housed 6 13 50 8 1 yes  
## 46 0 male no housed 13 61 51 36 0 no  
## 47 0 male yes homeless 15 26 52 42 0 no  
## 48 0 male yes housed 7 7 53 31 NA <NA>  
## 49 0 male yes homeless 9 15 54 44 1 yes  
## 50 0 male no homeless 5 13 56 40 1 yes  
## 51 1 female no housed 13 20 57 32 0 no  
## 52 0 male yes housed 34 34 58 29 1 yes  
## 53 0 male yes housed 3 6 59 44 1 yes  
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## 109 27.136280 54.79462 7 black no 5 alcohol yes  
## 110 41.321629 36.68874 4 black no 10 cocaine no  
## 111 21.912630 43.00148 3 black no 9 cocaine yes  
## 112 28.972683 59.74108 6 white yes 4 alcohol no  
## 113 16.284695 48.89844 12 white yes 4 heroin yes  
## 114 19.156574 34.33698 10 white no 6 heroin no  
## 115 41.590557 40.88239 3 other no 9 cocaine no  
## 116 18.465418 39.33260 13 black yes 6 cocaine yes  
## 117 39.450993 28.93009 7 black no 3 alcohol yes  
## 118 42.539974 60.92048 4 black no 7 cocaine yes  
## 119 37.438934 49.29042 11 black yes 3 cocaine yes  
## 120 22.669971 35.39379 5 white yes 3 alcohol no  
## 121 45.529411 57.32318 2 white no 5 alcohol no  
## 122 20.310446 33.48925 2 white no 0 alcohol no  
## 123 23.729639 45.54259 8 black yes 7 cocaine yes  
## 124 40.676174 59.10600 9 black no 7 cocaine yes  
## 125 28.075939 42.01285 11 black no 4 heroin yes  
## 126 22.787546 28.74085 9 other no 7 cocaine yes  
## 127 21.460621 45.01618 7 white no 0 alcohol no  
## 128 28.505577 37.79718 7 black yes 7 cocaine yes  
## 129 33.652927 48.87681 1 black no 7 alcohol no  
## 130 40.156929 40.96234 7 hispanic yes 9 alcohol no  
## 131 45.491100 38.13606 5 black no 6 alcohol yes  
## 132 23.371147 29.47202 12 black no 4 heroin no  
## 133 34.598862 50.21533 9 white yes 5 heroin yes  
## 134 22.017500 40.24271 1 white no 5 cocaine yes  
## 135 29.082914 36.24839 8 white no 7 alcohol no  
## 136 24.422007 45.56750 7 white no 5 alcohol no  
## 137 33.366123 45.16520 8 black no 9 cocaine yes  
## 138 18.690155 59.47648 7 other no 5 cocaine yes  
## 139 27.683458 31.97959 6 black yes 6 heroin no  
## 140 47.145802 53.66537 3 black yes 6 cocaine yes  
## 141 33.517311 29.78529 3 black no 2 cocaine no  
## 142 41.131794 24.43518 8 white no 5 alcohol yes  
## 143 24.090509 53.75950 10 black no 7 cocaine no  
## 144 50.030434 57.38777 9 black yes 2 cocaine no  
## 145 20.069775 50.23810 11 white no 4 heroin yes  
## 146 18.211269 56.00507 11 other yes 3 heroin no  
## 147 30.071957 44.92406 9 white yes 1 alcohol no  
## 148 28.679745 61.78611 2 white no 6 heroin no  
## 149 20.517740 54.35444 8 white no 4 alcohol yes  
## 150 31.188143 55.74972 8 black no 7 alcohol yes  
## 151 43.881058 61.44474 7 black no 8 cocaine no  
## 152 56.784805 56.84005 3 black yes 9 cocaine yes  
## 153 39.074711 36.56960 5 white yes 5 alcohol no  
## 154 52.197483 55.73845 13 black yes 7 cocaine yes  
## 155 21.200043 32.28706 2 white no 8 alcohol no  
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## 157 10.564762 52.94168 9 black no 0 heroin no  
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## 159 39.270416 26.45694 11 hispanic no 3 alcohol yes  
## 160 18.771036 40.46645 2 other no 0 heroin no  
## 161 20.119982 32.96189 3 white no 4 heroin yes  
## 162 25.257971 42.12069 7 hispanic no 5 alcohol no  
## 163 21.049545 45.46138 1 white no 6 heroin yes  
## 164 50.018494 54.07817 7 black no 2 cocaine yes  
## 165 18.324743 43.24062 14 black no 11 cocaine no  
## 166 7.938221 53.61504 10 black no 4 cocaine no  
## 167 22.442661 35.90619 8 white no 11 alcohol no  
## 168 27.171751 37.75567 3 white no 9 alcohol yes  
## 169 41.054363 57.70763 14 white no 0 alcohol yes  
## 170 29.860514 53.68318 11 white no 1 heroin yes  
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## 172 26.252979 54.42475 3 hispanic no 7 cocaine no  
## 173 40.167236 61.28633 4 black no 8 cocaine yes  
## 174 22.815102 35.22702 10 white no 4 heroin yes  
## 175 40.032974 38.10227 2 black yes 7 cocaine no  
## 176 25.615507 66.59317 10 white no 4 alcohol yes  
## 177 14.358881 49.27981 2 black yes 7 alcohol yes  
## 178 27.122667 58.16642 10 black no 7 cocaine no  
## 179 36.823708 31.52861 2 other yes 5 heroin yes  
## 180 17.509274 49.36320 12 black no 8 heroin no  
## 181 17.927528 43.17081 2 white no 4 heroin yes  
## 182 43.353584 21.91906 9 black no 8 heroin no  
## 183 47.711655 57.81969 2 black no 6 cocaine yes  
## 184 20.731987 54.82264 5 black no 8 alcohol yes  
## 185 52.455845 60.41816 13 black yes 3 alcohol no  
## 186 36.100307 37.03778 11 black yes 2 alcohol yes  
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## 188 12.323594 48.21926 11 white no 6 heroin no  
## 189 23.058514 54.36913 6 white no 6 cocaine yes  
## 190 45.011848 35.79145 10 black no 3 cocaine yes  
## 191 37.953403 57.64361 11 black no 0 cocaine no  
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## 194 16.786348 38.51597 3 white yes 11 cocaine yes  
## 195 54.768539 23.48208 12 black yes 0 cocaine no  
## 196 46.119808 23.50237 5 black no 3 alcohol yes  
## 197 35.955441 56.30513 11 black no 3 alcohol no  
## 198 30.300137 41.06454 4 white yes 2 heroin yes  
## 199 59.453930 58.16510 14 black no 2 cocaine no  
## 200 23.546112 41.57280 7 white no 4 heroin no  
## 201 14.919310 57.83691 3 white no 5 alcohol yes  
## 202 40.462433 56.90286 3 black yes 4 cocaine yes  
## 203 46.729744 54.59662 1 white no 0 alcohol no  
## 204 37.674961 47.36353 2 black yes 7 alcohol yes  
## 205 57.260887 56.89963 0 black yes 5 alcohol no  
## 206 44.351089 46.79942 4 black no 2 cocaine no  
## 207 16.469986 58.49455 2 black no 8 cocaine no  
## 208 35.235611 48.48331 0 white yes 5 alcohol yes  
## 209 48.239128 56.39499 3 black no 2 cocaine yes  
## 210 30.371395 47.35083 1 other no 5 cocaine yes  
## 211 26.311474 43.25021 8 white no 5 alcohol no  
## 212 22.884369 29.11139 5 black no 4 alcohol no  
## 213 27.471394 52.42204 10 black no 5 heroin no  
## 214 30.280018 34.58012 12 white no 4 alcohol yes  
## 215 47.979435 48.27899 6 black no 4 cocaine yes  
## 216 13.968738 48.97176 11 black no 4 cocaine yes  
## 217 41.867615 46.36879 7 hispanic no 4 heroin no  
## 218 25.039495 63.25544 14 black no 8 cocaine no  
## 219 26.453758 46.76894 3 white no 5 heroin no  
## 220 14.480626 70.14779 5 white no 5 cocaine yes  
## 221 52.789551 50.25876 1 white yes 6 alcohol no  
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## 223 26.799009 42.42209 10 white no 0 alcohol no  
## 224 27.808109 25.61815 7 white no 1 alcohol yes  
## 225 23.547628 37.35865 7 black yes 2 heroin yes  
## 226 27.650967 53.05504 6 black no 5 cocaine yes  
## 227 27.177586 43.00587 6 black no 11 cocaine no  
## 228 34.048084 57.24648 12 black no 2 cocaine no  
## 229 31.328341 41.78789 1 black no 7 cocaine yes  
## 230 32.384045 44.85584 10 black no 4 cocaine no  
## 231 16.125675 47.65467 11 white yes 1 alcohol no  
## 232 17.625854 44.01194 13 hispanic no 4 heroin yes  
## 233 47.442879 52.85658 11 black no 7 alcohol yes  
## 234 27.898603 43.68238 2 white yes 1 alcohol no  
## 235 23.683241 43.55378 9 black no 4 alcohol yes  
## 236 58.168713 49.47607 3 black no 8 cocaine no  
## 237 31.777193 41.87122 4 black no 0 heroin no  
## 238 52.955296 60.10658 12 black no 4 cocaine yes  
## 239 24.813925 35.46683 12 black no 5 cocaine no  
## 240 31.781149 51.49556 7 black yes 8 cocaine yes  
## 241 46.830055 62.44834 1 black no 1 alcohol yes  
## 242 16.398746 42.32603 3 black no 6 cocaine no  
## 243 36.798199 57.78556 13 black yes 7 cocaine yes  
## 244 55.991005 32.58783 11 black yes 13 alcohol yes  
## 245 41.624405 53.04678 6 black yes 2 alcohol no  
## 246 19.645632 46.33508 9 white no 5 heroin yes  
## 247 26.919926 48.62301 3 white no 4 alcohol no  
## 248 37.953053 61.60262 6 black yes 4 cocaine no  
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## 251 30.701992 51.40308 4 white no 4 heroin yes  
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## 253 29.505835 46.76040 10 hispanic no 3 heroin no  
## 254 21.931257 49.87759 6 other no 2 alcohol yes  
## 255 20.979116 59.28272 1 white yes 0 alcohol yes  
## 256 28.558788 36.63770 4 hispanic no 5 heroin no  
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## 258 44.446507 45.79400 12 black no 4 alcohol yes  
## 259 11.819070 62.81930 2 hispanic yes 4 heroin yes  
## 260 21.543468 52.35651 10 white no 4 heroin no  
## 261 25.548498 46.98674 5 hispanic no 3 heroin yes  
## 262 34.139271 56.95329 14 white no 4 alcohol yes  
## 263 29.400602 44.11552 3 white yes 2 heroin no  
## 264 27.601431 37.83872 11 black no 6 cocaine no  
## 265 56.963795 46.56849 5 black no 4 cocaine yes  
## 266 14.415197 46.74971 2 black no 11 heroin yes  
## 267 41.195469 40.11784 11 hispanic no 3 heroin yes  
## 268 36.719200 30.27282 9 other no 4 alcohol no  
## 269 48.008137 51.74989 11 hispanic no 0 alcohol no  
## 270 34.747746 64.35030 3 white no 1 heroin yes  
## 271 58.477470 58.89470 11 white yes 6 heroin yes  
## 272 62.031616 36.10949 12 black no 5 cocaine no  
## 273 16.718819 35.70664 3 black no 11 alcohol yes  
## 274 20.220354 32.44772 2 black no 9 alcohol yes  
## 275 24.378925 35.89378 4 hispanic no 4 heroin no  
## 276 28.447634 39.93384 2 other no 0 heroin yes  
## 277 18.677704 71.62856 6 black no 6 cocaine no  
## 278 58.899960 59.34274 12 black yes 6 alcohol yes  
## 279 15.773271 48.61113 3 black yes 5 alcohol no  
## 280 34.541599 54.08614 5 black no 8 cocaine yes  
## 281 17.926985 39.09279 7 black no 6 alcohol no  
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## 283 23.137871 51.24271 10 white no 2 heroin yes  
## 284 22.939909 33.03571 10 black no 2 heroin yes  
## 285 33.888065 33.92213 2 black yes 7 cocaine yes  
## 286 34.412716 25.92422 5 white no 8 alcohol no  
## 287 22.237560 36.52407 3 black yes 5 alcohol no  
## 288 22.354912 31.76573 1 white yes 0 heroin no  
## 289 7.035307 52.51404 8 other no 7 heroin yes  
## 290 19.718121 41.32350 7 other no 3 heroin no  
## 291 28.747435 51.08913 10 white no 6 alcohol yes  
## 292 55.912579 51.01180 11 black yes 6 cocaine yes  
## 293 18.948950 40.42006 7 black no 9 alcohol no  
## 294 38.851971 45.13578 12 hispanic no 1 alcohol no  
## 295 16.922634 34.09209 0 other no 2 alcohol no  
## 296 31.739616 31.52352 0 white no 4 heroin yes  
## 297 17.837486 54.94331 5 black no 1 cocaine no  
## 298 24.923189 63.77832 8 black no 4 cocaine yes  
## 299 20.911737 44.87310 2 hispanic no 8 heroin yes  
## 300 32.773659 63.90699 2 hispanic no 0 alcohol no  
## 301 23.771542 47.50178 5 white no 7 alcohol yes  
## 302 23.242210 30.34914 9 white yes 6 alcohol yes  
## 303 22.447948 45.32498 2 hispanic yes 7 alcohol no  
## 304 58.851147 58.71478 4 black no 5 alcohol yes  
## 305 27.218351 34.31445 0 white no 9 alcohol no  
## 306 18.287806 43.60749 2 black yes 4 alcohol no  
## 307 60.542084 55.44015 13 white no 1 heroin yes  
## 308 37.835770 32.12609 4 black yes 0 heroin no  
## 309 37.698196 52.02918 11 hispanic no 4 alcohol yes  
## 310 13.852996 31.11147 9 black no 0 cocaine yes  
## 311 18.615227 58.15246 5 white no 4 alcohol no  
## 312 47.255920 46.52069 6 black no 7 cocaine yes  
## 313 19.808329 27.09086 13 white yes 3 alcohol no  
## 314 57.873539 57.59651 14 black no 8 cocaine yes  
## 315 9.406377 41.95401 13 white no 4 heroin no  
## 316 27.495565 51.27790 3 black no 9 cocaine no  
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## 322 18.604780 66.09068 4 black no 5 cocaine yes  
## 323 19.291830 59.91458 6 black no 5 cocaine yes  
## 324 31.856297 64.18298 7 black yes 6 cocaine no  
## 325 26.698538 43.39342 3 hispanic no 1 heroin yes  
## 326 53.340359 57.65739 12 white no 0 alcohol no  
## 327 51.003738 51.70669 2 hispanic yes 2 cocaine yes  
## 328 28.639238 48.98777 10 white no 2 heroin no  
## 329 44.215485 54.15862 9 black no 6 alcohol yes  
## 330 7.226597 47.60948 9 white no 4 alcohol yes  
## 331 57.296200 59.14530 5 hispanic yes 4 alcohol no  
## 332 30.918043 63.34270 11 black yes 5 cocaine yes  
## 333 24.849377 51.15330 1 hispanic yes 4 cocaine yes  
## 334 17.863741 38.19618 6 white no 0 alcohol yes  
## 335 48.483433 57.44889 5 white no 5 alcohol no  
## 336 27.514502 64.07393 3 black yes 5 alcohol no  
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## 338 29.213017 56.69189 3 black yes 3 heroin no  
## 339 36.029205 61.19665 1 black no 3 cocaine yes  
## 340 25.465322 65.26759 5 black no 9 cocaine no  
## 341 38.778580 41.73849 10 black yes 8 cocaine yes  
## 342 31.255833 56.56525 7 black no 6 cocaine yes  
## 343 58.750145 53.01821 12 black no 8 cocaine no  
## 344 32.313843 57.04919 14 black no 4 heroin no  
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## 346 37.504734 54.06671 3 other no 2 alcohol no  
## 347 18.340139 43.89911 12 black no 2 cocaine yes  
## 348 14.108759 48.81484 5 white yes 5 heroin no  
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## 350 26.474701 48.76114 12 white yes 3 heroin yes  
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## 353 41.324745 36.81136 3 hispanic no 2 heroin no  
## 354 38.907230 49.43321 11 black yes 2 heroin yes  
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## 362 25.445648 44.17665 8 black yes 5 alcohol no  
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## 366 54.851093 50.26602 3 black no 5 heroin yes  
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## 368 24.930353 33.53111 7 black no 2 heroin yes  
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## 371 25.710777 49.18084 9 other no 9 alcohol no  
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## 377 14.891697 60.11456 2 black no 7 heroin no  
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## 380 17.082233 47.00855 14 white no 5 heroin yes  
## 381 30.701563 38.40187 5 white no 6 alcohol yes  
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## 453 30.212227 43.47607 11 white no 4 alcohol no  
## avg\_drinks max\_drinks  
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## 3 0 0  
## 4 5 5  
## 5 10 13  
## 6 4 4  
## 7 13 20  
## 8 12 24  
## 9 71 129  
## 10 20 27  
## 11 0 0  
## 12 13 13  
## 13 20 31  
## 14 13 20  
## 15 51 51  
## 16 0 0  
## 17 0 0  
## 18 1 1  
## 19 9 24  
## 20 23 23  
## 21 26 26  
## 22 0 0  
## 23 34 34  
## 24 4 5  
## 25 6 8  
## 26 3 3  
## 27 7 7  
## 28 24 48  
## 29 0 0  
## 30 20 20  
## 31 3 3  
## 32 6 6  
## 33 0 0  
## 34 0 0  
## 35 32 135  
## 36 2 24  
## 37 3 3  
## 38 27 27  
## 39 3 7  
## 40 24 36  
## 41 6 12  
## 42 0 0  
## 43 13 13  
## 44 25 28  
## 45 6 13  
## 46 13 61  
## 47 15 26  
## 48 7 7  
## 49 9 15  
## 50 5 13  
## 51 13 20  
## 52 34 34  
## 53 3 6  
## 54 37 43  
## 55 36 36  
## 56 13 15  
## 57 3 19  
## 58 3 6  
## 59 0 0  
## 60 32 32  
## 61 35 42  
## 62 20 20  
## 63 7 25  
## 64 59 164  
## 65 0 0  
## 66 26 51  
## 67 12 18  
## 68 0 0  
## 69 18 36  
## 70 6 12  
## 71 13 17  
## 72 5 5  
## 73 2 2  
## 74 102 102  
## 75 0 0  
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## 77 6 8  
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## 80 1 22  
## 81 2 2  
## 82 0 0  
## 83 26 47  
## 84 0 0  
## 85 9 19  
## 86 10 10  
## 87 4 5  
## 88 6 15  
## 89 26 51  
## 90 64 64  
## 91 26 26  
## 92 2 3  
## 93 33 38  
## 94 61 184  
## 95 2 2  
## 96 19 19  
## 97 9 15  
## 98 0 0  
## 99 18 47  
## 100 51 51  
## 101 0 0  
## 102 36 66  
## 103 31 91  
## 104 0 0  
## 105 26 69  
## 106 2 20  
## 107 0 0  
## 108 51 51  
## 109 34 34  
## 110 39 95  
## 111 19 26  
## 112 13 13  
## 113 0 0  
## 114 0 0  
## 115 13 13  
## 116 1 1  
## 117 22 22  
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## 121 26 26  
## 122 13 13  
## 123 3 3  
## 124 24 24  
## 125 0 0  
## 126 0 0  
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## 133 3 6  
## 134 2 2  
## 135 13 13  
## 136 20 51  
## 137 1 3  
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## 142 39 39  
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## 175 19 26  
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## 178 1 4  
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## 181 9 9  
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## 251 9 20  
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## 258 27 33  
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## 448 0 0  
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## 450 13 20  
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## 452 13 13  
## 453 51 51

**Question:** Is the data that can be downloaded from [finance.yahoo.com](https://finance.yahoo.com) in a tidy format?