Module12Script.R

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#install.packages("ggplot2") #install proper packages  
#install.packages("lattice")  
  
library(lattice) # load the packages  
library(ggplot2)  
  
marriage\_data <- read.csv("Affairs.csv") #read .csv file into variable  
marriage\_data

## X affairs gender age yearsmarried children religiousness education  
## 1 4 0 male 37.0 10.000 no 3 18  
## 2 5 0 female 27.0 4.000 no 4 14  
## 3 11 0 female 32.0 15.000 yes 1 12  
## 4 16 0 male 57.0 15.000 yes 5 18  
## 5 23 0 male 22.0 0.750 no 2 17  
## 6 29 0 female 32.0 1.500 no 2 17  
## 7 44 0 female 22.0 0.750 no 2 12  
## 8 45 0 male 57.0 15.000 yes 2 14  
## 9 47 0 female 32.0 15.000 yes 4 16  
## 10 49 0 male 22.0 1.500 no 4 14  
## 11 50 0 male 37.0 15.000 yes 2 20  
## 12 55 0 male 27.0 4.000 yes 4 18  
## 13 64 0 male 47.0 15.000 yes 5 17  
## 14 80 0 female 22.0 1.500 no 2 17  
## 15 86 0 female 27.0 4.000 no 4 14  
## 16 93 0 female 37.0 15.000 yes 1 17  
## 17 108 0 female 37.0 15.000 yes 2 18  
## 18 114 0 female 22.0 0.750 no 3 16  
## 19 115 0 female 22.0 1.500 no 2 16  
## 20 116 0 female 27.0 10.000 yes 2 14  
## 21 123 0 female 22.0 1.500 no 2 16  
## 22 127 0 female 22.0 1.500 no 2 16  
## 23 129 0 female 27.0 10.000 yes 4 16  
## 24 134 0 female 32.0 10.000 yes 3 14  
## 25 137 0 male 37.0 4.000 yes 2 20  
## 26 139 0 female 22.0 1.500 no 2 18  
## 27 147 0 female 27.0 7.000 no 4 16  
## 28 151 0 male 42.0 15.000 yes 5 20  
## 29 153 0 male 27.0 4.000 yes 3 16  
## 30 155 0 female 27.0 4.000 yes 3 17  
## 31 162 0 male 42.0 15.000 yes 4 20  
## 32 163 0 female 22.0 1.500 no 3 16  
## 33 165 0 male 27.0 0.417 no 4 17  
## 34 168 0 female 42.0 15.000 yes 5 14  
## 35 170 0 male 32.0 4.000 yes 1 18  
## 36 172 0 female 22.0 1.500 no 4 16  
## 37 184 0 female 42.0 15.000 yes 3 12  
## 38 187 0 female 22.0 4.000 no 4 17  
## 39 192 0 male 22.0 1.500 yes 1 14  
## 40 194 0 female 22.0 0.750 no 3 16  
## 41 210 0 male 32.0 10.000 yes 5 20  
## 42 217 0 male 52.0 15.000 yes 5 18  
## 43 220 0 female 22.0 0.417 no 5 14  
## 44 224 0 female 27.0 4.000 yes 2 18  
## 45 227 0 female 32.0 7.000 yes 5 17  
## 46 228 0 male 22.0 4.000 no 3 16  
## 47 239 0 female 27.0 7.000 yes 4 18  
## 48 241 0 female 42.0 15.000 yes 2 18  
## 49 245 0 male 27.0 1.500 yes 4 16  
## 50 249 0 male 42.0 15.000 yes 2 20  
## 51 262 0 female 22.0 0.750 no 5 14  
## 52 265 0 male 32.0 7.000 yes 2 20  
## 53 267 0 male 27.0 4.000 yes 5 20  
## 54 269 0 male 27.0 10.000 yes 4 20  
## 55 271 0 male 22.0 4.000 no 1 18  
## 56 277 0 female 37.0 15.000 yes 4 14  
## 57 290 0 male 22.0 1.500 yes 5 16  
## 58 292 0 female 37.0 15.000 yes 4 17  
## 59 293 0 female 27.0 0.750 no 4 17  
## 60 295 0 male 32.0 10.000 yes 4 20  
## 61 299 0 female 47.0 15.000 yes 5 14  
## 62 320 0 male 37.0 10.000 yes 3 20  
## 63 321 0 female 22.0 0.750 no 2 16  
## 64 324 0 male 27.0 4.000 no 2 18  
## 65 334 0 male 32.0 7.000 no 4 20  
## 66 351 0 male 42.0 15.000 yes 2 17  
## 67 355 0 male 37.0 10.000 yes 4 20  
## 68 361 0 female 47.0 15.000 yes 3 17  
## 69 362 0 female 22.0 1.500 no 5 16  
## 70 366 0 female 27.0 1.500 no 2 16  
## 71 370 0 female 27.0 4.000 no 3 17  
## 72 374 0 female 32.0 10.000 yes 5 14  
## 73 378 0 female 22.0 0.125 no 2 12  
## 74 381 0 male 47.0 15.000 yes 4 14  
## 75 382 0 male 32.0 15.000 yes 1 14  
## 76 383 0 male 27.0 7.000 yes 4 16  
## 77 384 0 female 22.0 1.500 yes 3 16  
## 78 400 0 male 27.0 4.000 yes 3 17  
## 79 403 0 female 22.0 1.500 no 3 16  
## 80 409 0 male 57.0 15.000 yes 2 14  
## 81 412 0 male 17.5 1.500 yes 3 18  
## 82 413 0 male 57.0 15.000 yes 4 20  
## 83 416 0 female 22.0 0.750 no 2 16  
## 84 418 0 male 42.0 4.000 no 4 17  
## 85 422 0 female 22.0 1.500 yes 4 12  
## 86 435 0 female 22.0 0.417 no 1 17  
## 87 439 0 female 32.0 15.000 yes 4 17  
## 88 445 0 female 27.0 1.500 no 3 18  
## 89 447 0 female 22.0 1.500 yes 3 14  
## 90 448 0 female 37.0 15.000 yes 3 14  
## 91 449 0 female 32.0 15.000 yes 4 14  
## 92 478 0 male 37.0 10.000 yes 2 14  
## 93 482 0 male 37.0 10.000 yes 4 16  
## 94 486 0 male 57.0 15.000 yes 5 20  
## 95 489 0 male 27.0 0.417 no 1 16  
## 96 490 0 female 42.0 15.000 yes 5 14  
## 97 491 0 male 57.0 15.000 yes 3 16  
## 98 492 0 male 37.0 10.000 yes 1 16  
## 99 503 0 male 37.0 15.000 yes 3 17  
## 100 508 0 male 37.0 15.000 yes 4 20  
## 101 509 0 female 27.0 10.000 yes 5 14  
## 102 512 0 male 37.0 10.000 yes 2 18  
## 103 515 0 female 22.0 0.125 no 4 12  
## 104 517 0 male 57.0 15.000 yes 5 20  
## 105 532 0 female 37.0 15.000 yes 4 18  
## 106 533 0 male 22.0 4.000 yes 4 14  
## 107 535 0 male 27.0 7.000 yes 4 18  
## 108 537 0 male 57.0 15.000 yes 4 20  
## 109 538 0 male 32.0 15.000 yes 3 14  
## 110 543 0 female 22.0 1.500 no 2 14  
## 111 547 0 female 32.0 7.000 yes 4 17  
## 112 550 0 female 37.0 15.000 yes 4 17  
## 113 558 0 female 32.0 1.500 no 5 18  
## 114 571 0 male 42.0 10.000 yes 5 20  
## 115 578 0 female 27.0 7.000 no 3 16  
## 116 583 0 male 37.0 15.000 no 4 20  
## 117 586 0 male 37.0 15.000 yes 4 14  
## 118 594 0 male 32.0 10.000 no 5 18  
## 119 597 0 female 22.0 0.750 no 4 16  
## 120 602 0 female 27.0 7.000 yes 4 12  
## 121 603 0 female 27.0 7.000 yes 2 16  
## 122 604 0 female 42.0 15.000 yes 5 18  
## 123 612 0 male 42.0 15.000 yes 4 17  
## 124 613 0 female 27.0 7.000 yes 2 16  
## 125 621 0 female 22.0 1.500 no 3 16  
## 126 627 0 male 37.0 15.000 yes 5 20  
## 127 630 0 female 22.0 0.125 no 2 14  
## 128 631 0 male 27.0 1.500 no 4 16  
## 129 632 0 male 32.0 1.500 no 2 18  
## 130 639 0 male 27.0 1.500 no 2 17  
## 131 645 0 female 27.0 10.000 yes 4 16  
## 132 647 0 male 42.0 15.000 yes 4 18  
## 133 648 0 female 27.0 1.500 no 2 16  
## 134 651 0 male 27.0 4.000 no 2 18  
## 135 655 0 female 32.0 10.000 yes 3 14  
## 136 667 0 female 32.0 15.000 yes 3 18  
## 137 670 0 female 22.0 0.750 no 2 18  
## 138 671 0 female 37.0 15.000 yes 2 16  
## 139 673 0 male 27.0 4.000 yes 4 20  
## 140 701 0 male 27.0 4.000 no 1 20  
## 141 705 0 female 27.0 10.000 yes 2 12  
## 142 706 0 female 32.0 15.000 yes 5 18  
## 143 709 0 male 27.0 7.000 yes 5 12  
## 144 717 0 male 52.0 15.000 yes 2 18  
## 145 719 0 male 27.0 4.000 no 3 20  
## 146 723 0 male 37.0 4.000 yes 1 18  
## 147 724 0 male 27.0 4.000 yes 4 14  
## 148 726 0 female 52.0 15.000 yes 5 12  
## 149 734 0 female 57.0 15.000 yes 4 16  
## 150 735 0 male 27.0 7.000 yes 1 16  
## 151 736 0 male 37.0 7.000 yes 4 20  
## 152 737 0 male 22.0 0.750 no 2 14  
## 153 739 0 male 32.0 4.000 yes 2 18  
## 154 743 0 male 37.0 15.000 yes 4 20  
## 155 745 0 male 22.0 0.750 yes 2 14  
## 156 747 0 male 42.0 15.000 yes 4 20  
## 157 751 0 female 52.0 15.000 yes 5 17  
## 158 752 0 female 37.0 15.000 yes 4 14  
## 159 754 0 male 27.0 7.000 yes 4 14  
## 160 760 0 male 32.0 4.000 yes 2 16  
## 161 763 0 female 27.0 4.000 yes 2 18  
## 162 774 0 female 27.0 4.000 yes 2 18  
## 163 776 0 male 37.0 15.000 yes 5 18  
## 164 779 0 female 47.0 15.000 yes 5 12  
## 165 784 0 female 32.0 10.000 yes 3 17  
## 166 788 0 female 27.0 1.500 yes 4 17  
## 167 794 0 female 57.0 15.000 yes 2 18  
## 168 795 0 female 22.0 1.500 no 4 14  
## 169 798 0 male 42.0 15.000 yes 3 14  
## 170 800 0 male 57.0 15.000 yes 4 9  
## 171 803 0 male 57.0 15.000 yes 4 20  
## 172 807 0 female 22.0 0.125 no 4 14  
## 173 812 0 female 32.0 10.000 yes 4 14  
## 174 820 0 female 42.0 15.000 yes 3 18  
## 175 823 0 female 27.0 1.500 no 2 18  
## 176 830 0 male 32.0 0.125 yes 2 18  
## 177 843 0 female 27.0 4.000 no 3 16  
## 178 848 0 female 27.0 10.000 yes 2 16  
## 179 851 0 female 32.0 7.000 yes 4 16  
## 180 854 0 female 37.0 15.000 yes 4 14  
## 181 856 0 female 42.0 15.000 yes 5 17  
## 182 857 0 male 32.0 1.500 yes 4 14  
## 183 859 0 female 32.0 4.000 yes 3 17  
## 184 863 0 female 37.0 7.000 no 4 18  
## 185 865 0 female 22.0 0.417 yes 3 14  
## 186 867 0 female 27.0 7.000 yes 4 14  
## 187 870 0 male 27.0 0.750 no 3 16  
## 188 873 0 male 27.0 4.000 yes 2 20  
## 189 875 0 male 32.0 10.000 yes 4 16  
## 190 876 0 male 32.0 15.000 yes 1 14  
## 191 877 0 male 22.0 0.750 no 3 17  
## 192 880 0 female 27.0 7.000 yes 4 17  
## 193 903 0 male 27.0 0.417 yes 4 20  
## 194 904 0 male 37.0 15.000 yes 4 20  
## 195 905 0 female 37.0 15.000 yes 2 14  
## 196 908 0 male 22.0 4.000 yes 1 18  
## 197 909 0 male 37.0 15.000 yes 4 17  
## 198 910 0 female 22.0 1.500 no 2 14  
## 199 912 0 male 52.0 15.000 yes 4 14  
## 200 914 0 female 22.0 1.500 no 4 17  
## 201 915 0 male 32.0 4.000 yes 5 14  
## 202 916 0 male 32.0 4.000 yes 2 14  
## 203 920 0 female 22.0 1.500 no 3 16  
## 204 921 0 male 27.0 0.750 no 2 18  
## 205 925 0 female 22.0 7.000 yes 2 14  
## 206 926 0 female 27.0 0.750 no 2 17  
## 207 929 0 female 37.0 15.000 yes 4 12  
## 208 931 0 female 22.0 1.500 no 1 14  
## 209 945 0 female 37.0 10.000 no 2 12  
## 210 947 0 female 37.0 15.000 yes 4 18  
## 211 949 0 female 42.0 15.000 yes 3 12  
## 212 950 0 male 22.0 4.000 no 2 18  
## 213 961 0 male 52.0 7.000 yes 2 20  
## 214 965 0 male 27.0 0.750 no 2 17  
## 215 966 0 female 27.0 4.000 no 2 17  
## 216 967 0 male 42.0 1.500 no 5 20  
## 217 987 0 male 22.0 1.500 no 4 17  
## 218 990 0 male 22.0 4.000 no 4 17  
## 219 992 0 female 22.0 4.000 yes 1 14  
## 220 995 0 male 37.0 15.000 yes 5 20  
## 221 1009 0 female 37.0 10.000 yes 3 16  
## 222 1021 0 male 42.0 15.000 yes 4 17  
## 223 1026 0 female 47.0 15.000 yes 4 17  
## 224 1027 0 male 22.0 1.500 no 4 16  
## 225 1030 0 female 32.0 10.000 yes 3 12  
## 226 1031 0 female 22.0 7.000 yes 1 14  
## 227 1034 0 female 32.0 10.000 yes 4 17  
## 228 1037 0 male 27.0 1.500 yes 2 16  
## 229 1038 0 male 37.0 15.000 yes 4 14  
## 230 1039 0 male 42.0 4.000 yes 3 14  
## 231 1045 0 female 37.0 15.000 yes 5 14  
## 232 1046 0 female 32.0 7.000 yes 4 17  
## 233 1054 0 female 42.0 15.000 yes 4 18  
## 234 1059 0 male 27.0 4.000 no 4 18  
## 235 1063 0 male 22.0 0.750 no 4 18  
## 236 1068 0 male 27.0 4.000 yes 4 14  
## 237 1070 0 female 22.0 0.750 no 5 18  
## 238 1072 0 female 52.0 15.000 yes 5 9  
## 239 1073 0 male 32.0 10.000 yes 3 14  
## 240 1077 0 female 37.0 15.000 yes 4 16  
## 241 1081 0 male 32.0 7.000 yes 2 20  
## 242 1083 0 female 42.0 15.000 yes 3 18  
## 243 1084 0 male 32.0 15.000 yes 1 16  
## 244 1086 0 male 27.0 4.000 yes 3 18  
## 245 1087 0 female 32.0 15.000 yes 4 12  
## 246 1089 0 male 22.0 0.750 yes 3 14  
## 247 1096 0 female 22.0 1.500 no 3 16  
## 248 1102 0 female 42.0 15.000 yes 4 14  
## 249 1103 0 female 52.0 15.000 yes 3 16  
## 250 1107 0 male 37.0 15.000 yes 5 20  
## 251 1109 0 female 47.0 15.000 yes 4 12  
## 252 1115 0 male 57.0 15.000 yes 2 20  
## 253 1119 0 male 32.0 7.000 yes 4 17  
## 254 1124 0 female 27.0 7.000 yes 4 17  
## 255 1126 0 male 22.0 1.500 no 1 18  
## 256 1128 0 female 22.0 4.000 yes 3 9  
## 257 1129 0 female 22.0 1.500 no 2 14  
## 258 1130 0 male 42.0 15.000 yes 2 20  
## 259 1133 0 male 57.0 15.000 yes 4 9  
## 260 1140 0 female 27.0 7.000 yes 2 18  
## 261 1143 0 female 22.0 4.000 yes 3 14  
## 262 1146 0 male 37.0 15.000 yes 4 14  
## 263 1153 0 male 32.0 7.000 yes 1 18  
## 264 1156 0 female 22.0 1.500 no 2 14  
## 265 1157 0 female 22.0 1.500 yes 3 12  
## 266 1158 0 male 52.0 15.000 yes 2 14  
## 267 1160 0 female 37.0 15.000 yes 2 14  
## 268 1161 0 female 32.0 10.000 yes 2 14  
## 269 1166 0 male 42.0 15.000 yes 4 20  
## 270 1177 0 female 27.0 4.000 yes 3 18  
## 271 1178 0 male 37.0 15.000 yes 4 20  
## 272 1180 0 male 27.0 1.500 no 3 18  
## 273 1187 0 female 22.0 0.125 no 2 16  
## 274 1191 0 male 32.0 10.000 yes 2 20  
## 275 1195 0 female 27.0 4.000 no 4 18  
## 276 1207 0 female 27.0 7.000 yes 2 12  
## 277 1208 0 male 32.0 4.000 yes 5 18  
## 278 1209 0 female 37.0 15.000 yes 2 17  
## 279 1211 0 male 47.0 15.000 no 4 20  
## 280 1215 0 male 27.0 1.500 no 1 18  
## 281 1221 0 male 37.0 15.000 yes 4 20  
## 282 1226 0 female 32.0 15.000 yes 4 18  
## 283 1229 0 female 32.0 7.000 yes 4 17  
## 284 1231 0 female 42.0 15.000 yes 3 14  
## 285 1234 0 female 27.0 7.000 yes 3 16  
## 286 1235 0 male 27.0 1.500 no 3 16  
## 287 1242 0 male 22.0 1.500 no 3 16  
## 288 1245 0 male 27.0 4.000 yes 3 16  
## 289 1260 0 female 27.0 7.000 yes 3 12  
## 290 1266 0 female 37.0 15.000 yes 2 18  
## 291 1271 0 female 37.0 7.000 yes 3 14  
## 292 1273 0 male 22.0 1.500 no 2 16  
## 293 1276 0 male 37.0 15.000 yes 5 20  
## 294 1280 0 female 22.0 1.500 no 4 16  
## 295 1282 0 female 32.0 10.000 yes 4 16  
## 296 1285 0 male 27.0 4.000 no 2 17  
## 297 1295 0 female 22.0 0.417 no 4 14  
## 298 1298 0 female 27.0 4.000 no 2 18  
## 299 1299 0 male 37.0 15.000 yes 4 18  
## 300 1304 0 male 37.0 10.000 yes 5 20  
## 301 1305 0 female 27.0 7.000 yes 2 14  
## 302 1311 0 male 32.0 4.000 yes 2 16  
## 303 1314 0 male 32.0 4.000 yes 2 16  
## 304 1319 0 male 22.0 1.500 no 3 18  
## 305 1322 0 female 22.0 4.000 yes 4 14  
## 306 1324 0 female 17.5 0.750 no 2 18  
## 307 1327 0 male 32.0 10.000 yes 4 20  
## 308 1328 0 female 32.0 0.750 no 5 14  
## 309 1330 0 male 37.0 15.000 yes 4 17  
## 310 1332 0 male 32.0 4.000 no 3 14  
## 311 1333 0 female 27.0 1.500 no 2 17  
## 312 1336 0 female 22.0 7.000 yes 4 14  
## 313 1341 0 male 47.0 15.000 yes 5 14  
## 314 1344 0 male 27.0 4.000 yes 1 16  
## 315 1352 0 female 37.0 15.000 yes 5 14  
## 316 1358 0 male 42.0 4.000 yes 4 18  
## 317 1359 0 female 32.0 4.000 yes 2 14  
## 318 1361 0 male 52.0 15.000 yes 2 14  
## 319 1364 0 female 22.0 1.500 no 2 16  
## 320 1368 0 male 52.0 15.000 yes 4 12  
## 321 1384 0 female 22.0 0.417 no 3 17  
## 322 1390 0 female 22.0 1.500 no 2 16  
## 323 1393 0 male 27.0 4.000 yes 4 20  
## 324 1394 0 female 32.0 15.000 yes 4 14  
## 325 1402 0 female 27.0 1.500 no 2 16  
## 326 1407 0 male 32.0 4.000 no 1 20  
## 327 1408 0 male 37.0 15.000 yes 3 20  
## 328 1412 0 female 32.0 10.000 no 2 16  
## 329 1413 0 female 32.0 10.000 yes 5 14  
## 330 1416 0 male 37.0 1.500 yes 4 18  
## 331 1417 0 male 32.0 1.500 no 2 18  
## 332 1418 0 female 32.0 10.000 yes 4 14  
## 333 1419 0 female 47.0 15.000 yes 4 18  
## 334 1420 0 female 27.0 10.000 yes 5 12  
## 335 1423 0 male 27.0 4.000 yes 3 16  
## 336 1424 0 female 37.0 15.000 yes 4 12  
## 337 1432 0 female 27.0 0.750 no 4 16  
## 338 1433 0 female 37.0 15.000 yes 4 16  
## 339 1437 0 female 32.0 15.000 yes 3 16  
## 340 1438 0 female 27.0 10.000 yes 2 16  
## 341 1439 0 male 27.0 7.000 no 2 20  
## 342 1446 0 female 37.0 15.000 yes 2 14  
## 343 1450 0 male 27.0 1.500 yes 2 17  
## 344 1451 0 female 22.0 0.750 yes 2 14  
## 345 1452 0 male 22.0 4.000 yes 4 14  
## 346 1453 0 male 42.0 0.125 no 4 17  
## 347 1456 0 male 27.0 1.500 yes 4 18  
## 348 1464 0 male 27.0 7.000 yes 3 16  
## 349 1469 0 female 52.0 15.000 yes 4 14  
## 350 1473 0 male 27.0 1.500 no 5 20  
## 351 1481 0 female 27.0 1.500 no 2 16  
## 352 1482 0 female 27.0 1.500 no 3 17  
## 353 1496 0 male 22.0 0.125 no 5 16  
## 354 1497 0 female 27.0 4.000 yes 4 16  
## 355 1504 0 female 27.0 4.000 yes 4 12  
## 356 1513 0 female 47.0 15.000 yes 2 14  
## 357 1515 0 female 32.0 15.000 yes 3 14  
## 358 1534 0 male 42.0 7.000 yes 2 16  
## 359 1535 0 male 22.0 0.750 no 4 16  
## 360 1536 0 male 27.0 0.125 no 3 20  
## 361 1540 0 male 32.0 10.000 yes 3 20  
## 362 1551 0 female 22.0 0.417 no 5 14  
## 363 1555 0 female 47.0 15.000 yes 5 14  
## 364 1557 0 female 32.0 10.000 yes 3 14  
## 365 1566 0 male 57.0 15.000 yes 4 17  
## 366 1567 0 male 27.0 4.000 yes 3 20  
## 367 1576 0 female 32.0 7.000 yes 4 17  
## 368 1584 0 female 37.0 10.000 yes 4 16  
## 369 1585 0 female 32.0 10.000 yes 1 18  
## 370 1590 0 female 22.0 4.000 no 3 14  
## 371 1594 0 female 27.0 7.000 yes 4 14  
## 372 1595 0 male 57.0 15.000 yes 5 18  
## 373 1603 0 male 32.0 7.000 yes 2 18  
## 374 1608 0 female 27.0 1.500 no 4 17  
## 375 1609 0 male 22.0 1.500 no 4 14  
## 376 1615 0 female 22.0 1.500 yes 4 14  
## 377 1616 0 female 32.0 7.000 yes 3 16  
## 378 1617 0 female 47.0 15.000 yes 3 16  
## 379 1620 0 female 22.0 0.750 no 3 16  
## 380 1621 0 female 22.0 1.500 yes 2 14  
## 381 1637 0 female 27.0 4.000 yes 1 16  
## 382 1638 0 male 52.0 15.000 yes 4 16  
## 383 1650 0 male 32.0 10.000 yes 4 20  
## 384 1654 0 male 47.0 15.000 yes 4 16  
## 385 1665 0 female 27.0 7.000 yes 2 14  
## 386 1670 0 female 22.0 1.500 no 4 14  
## 387 1671 0 female 32.0 10.000 yes 2 16  
## 388 1675 0 female 22.0 0.750 no 2 16  
## 389 1688 0 female 22.0 1.500 no 2 16  
## 390 1691 0 female 42.0 15.000 yes 3 18  
## 391 1695 0 female 27.0 7.000 yes 5 14  
## 392 1698 0 male 42.0 15.000 yes 4 16  
## 393 1704 0 female 57.0 15.000 yes 3 18  
## 394 1705 0 male 42.0 15.000 yes 3 18  
## 395 1711 0 female 32.0 7.000 yes 2 14  
## 396 1719 0 male 22.0 4.000 no 5 12  
## 397 1723 0 female 22.0 1.500 no 1 16  
## 398 1726 0 female 22.0 0.750 no 1 14  
## 399 1749 0 female 32.0 15.000 yes 4 12  
## 400 1752 0 male 22.0 1.500 no 2 18  
## 401 1754 0 male 27.0 4.000 yes 5 17  
## 402 1758 0 female 27.0 4.000 yes 4 12  
## 403 1761 0 male 42.0 15.000 yes 5 18  
## 404 1773 0 male 32.0 1.500 no 2 20  
## 405 1775 0 male 57.0 15.000 no 4 9  
## 406 1786 0 male 37.0 7.000 no 4 18  
## 407 1793 0 male 52.0 15.000 yes 2 17  
## 408 1799 0 male 47.0 15.000 yes 4 17  
## 409 1803 0 female 27.0 7.000 no 2 17  
## 410 1806 0 female 27.0 7.000 yes 4 14  
## 411 1807 0 female 22.0 4.000 no 2 14  
## 412 1808 0 male 37.0 7.000 yes 2 20  
## 413 1814 0 male 27.0 7.000 no 4 12  
## 414 1815 0 male 42.0 10.000 yes 4 18  
## 415 1818 0 female 22.0 1.500 no 3 14  
## 416 1827 0 female 22.0 4.000 yes 2 14  
## 417 1834 0 female 57.0 15.000 no 4 20  
## 418 1835 0 male 37.0 15.000 yes 4 14  
## 419 1843 0 female 27.0 7.000 yes 3 18  
## 420 1846 0 female 17.5 10.000 no 4 14  
## 421 1850 0 male 22.0 4.000 yes 4 16  
## 422 1851 0 female 27.0 4.000 yes 2 16  
## 423 1854 0 female 37.0 15.000 yes 2 14  
## 424 1859 0 female 22.0 1.500 no 5 14  
## 425 1861 0 male 27.0 7.000 yes 2 20  
## 426 1866 0 male 27.0 4.000 yes 4 14  
## 427 1873 0 male 22.0 0.125 no 1 16  
## 428 1875 0 female 27.0 7.000 yes 4 14  
## 429 1885 0 female 32.0 15.000 yes 5 16  
## 430 1892 0 male 32.0 10.000 yes 4 18  
## 431 1895 0 female 32.0 15.000 yes 2 14  
## 432 1896 0 female 22.0 1.500 no 3 17  
## 433 1897 0 male 27.0 4.000 yes 4 17  
## 434 1899 0 female 52.0 15.000 yes 5 14  
## 435 1904 0 female 27.0 7.000 yes 2 12  
## 436 1905 0 female 27.0 7.000 yes 3 12  
## 437 1908 0 female 42.0 15.000 yes 2 14  
## 438 1916 0 female 42.0 15.000 yes 4 14  
## 439 1918 0 male 27.0 7.000 yes 4 14  
## 440 1920 0 male 27.0 7.000 yes 2 20  
## 441 1930 0 female 42.0 15.000 yes 3 12  
## 442 1940 0 male 27.0 4.000 yes 3 16  
## 443 1947 0 female 27.0 7.000 yes 3 14  
## 444 1949 0 female 22.0 1.500 no 2 14  
## 445 1951 0 female 27.0 4.000 yes 4 14  
## 446 1952 0 female 22.0 4.000 no 4 14  
## 447 1960 0 female 22.0 1.500 no 2 16  
## 448 9001 0 male 47.0 15.000 no 4 14  
## 449 9012 0 male 37.0 10.000 yes 2 18  
## 450 9023 0 male 37.0 15.000 yes 3 17  
## 451 9029 0 female 27.0 4.000 yes 2 16  
## 452 6 3 male 27.0 1.500 no 3 18  
## 453 12 3 female 27.0 4.000 yes 3 17  
## 454 43 7 male 37.0 15.000 yes 5 18  
## 455 53 12 female 32.0 10.000 yes 3 17  
## 456 67 1 male 22.0 0.125 no 4 16  
## 457 79 1 female 22.0 1.500 yes 2 14  
## 458 122 12 male 37.0 15.000 yes 4 14  
## 459 126 7 female 22.0 1.500 no 2 14  
## 460 133 2 male 37.0 15.000 yes 2 18  
## 461 138 3 female 32.0 15.000 yes 4 12  
## 462 154 1 female 37.0 15.000 yes 4 14  
## 463 159 7 female 42.0 15.000 yes 3 17  
## 464 174 12 female 42.0 15.000 yes 5 9  
## 465 176 12 male 37.0 10.000 yes 2 20  
## 466 181 12 female 32.0 15.000 yes 3 14  
## 467 182 3 male 27.0 4.000 no 1 18  
## 468 186 7 male 37.0 10.000 yes 2 18  
## 469 189 7 female 27.0 4.000 no 3 17  
## 470 204 1 male 42.0 15.000 yes 4 16  
## 471 215 1 female 47.0 15.000 yes 5 14  
## 472 232 7 female 27.0 4.000 yes 3 18  
## 473 233 1 female 27.0 7.000 yes 5 14  
## 474 252 12 male 27.0 1.500 yes 3 17  
## 475 253 12 female 27.0 7.000 yes 4 14  
## 476 274 3 female 42.0 15.000 yes 4 16  
## 477 275 7 female 27.0 10.000 yes 4 12  
## 478 287 1 male 27.0 1.500 no 2 18  
## 479 288 1 male 32.0 4.000 no 4 20  
## 480 325 1 female 27.0 7.000 yes 3 14  
## 481 328 3 female 32.0 10.000 yes 4 14  
## 482 344 3 male 27.0 4.000 yes 2 18  
## 483 353 1 female 17.5 0.750 no 5 14  
## 484 354 1 female 32.0 10.000 yes 4 18  
## 485 367 7 female 32.0 7.000 yes 2 17  
## 486 369 7 male 37.0 15.000 yes 2 20  
## 487 390 7 female 37.0 10.000 no 1 20  
## 488 392 12 female 32.0 10.000 yes 2 16  
## 489 423 7 male 52.0 15.000 yes 2 20  
## 490 432 7 female 42.0 15.000 yes 1 12  
## 491 436 1 male 52.0 15.000 yes 2 20  
## 492 483 2 male 37.0 15.000 yes 3 18  
## 493 513 12 female 22.0 4.000 no 3 12  
## 494 516 12 male 27.0 7.000 yes 1 18  
## 495 518 1 male 27.0 4.000 yes 3 18  
## 496 520 12 male 47.0 15.000 yes 4 17  
## 497 526 12 female 42.0 15.000 yes 4 12  
## 498 528 7 male 27.0 4.000 no 3 14  
## 499 553 7 female 32.0 7.000 yes 4 18  
## 500 576 1 male 32.0 0.417 yes 3 12  
## 501 611 3 male 47.0 15.000 yes 5 16  
## 502 625 12 male 37.0 15.000 yes 2 20  
## 503 635 7 male 22.0 4.000 yes 2 17  
## 504 646 1 male 27.0 4.000 no 2 14  
## 505 657 7 female 52.0 15.000 yes 5 16  
## 506 659 1 male 27.0 4.000 no 3 14  
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## 508 679 1 male 32.0 7.000 yes 3 14  
## 509 729 7 male 32.0 7.000 yes 2 18  
## 510 755 3 male 22.0 1.500 no 1 14  
## 511 758 7 male 22.0 4.000 yes 3 18  
## 512 770 7 male 42.0 15.000 yes 4 20  
## 513 786 2 female 57.0 15.000 yes 1 18  
## 514 797 7 female 32.0 4.000 yes 3 18  
## 515 811 1 male 27.0 4.000 yes 1 16  
## 516 834 7 male 32.0 7.000 yes 4 16  
## 517 858 2 male 57.0 15.000 yes 1 17  
## 518 885 7 female 42.0 15.000 yes 4 14  
## 519 893 7 male 37.0 10.000 yes 1 18  
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## 532 1011 7 male 32.0 10.000 yes 3 14  
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## 537 1075 12 male 37.0 10.000 yes 2 20  
## 538 1080 12 female 27.0 7.000 yes 1 14  
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## 541 1138 12 female 17.5 0.750 yes 2 12  
## 542 1150 12 female 32.0 15.000 yes 3 18  
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## 552 1294 7 male 57.0 15.000 yes 5 20  
## 553 1353 12 male 47.0 15.000 yes 4 20  
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## 556 1445 12 male 37.0 15.000 yes 5 17  
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## 558 1480 2 male 37.0 15.000 yes 2 16  
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## 570 1664 7 female 37.0 15.000 yes 2 17  
## 571 1669 2 female 27.0 4.000 no 1 17  
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## 579 1732 12 male 37.0 15.000 no 3 14  
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## 592 1844 12 male 42.0 15.000 yes 3 18  
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## 601 9010 1 female 32.0 15.000 yes 3 14  
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## 594 5 4  
## 595 4 3  
## 596 4 2  
## 597 2 5  
## 598 5 4  
## 599 6 5  
## 600 6 2  
## 601 1 5

View(marriage\_data) #check the data  
nrow(marriage\_data)

## [1] 601

ncol(marriage\_data)

## [1] 10

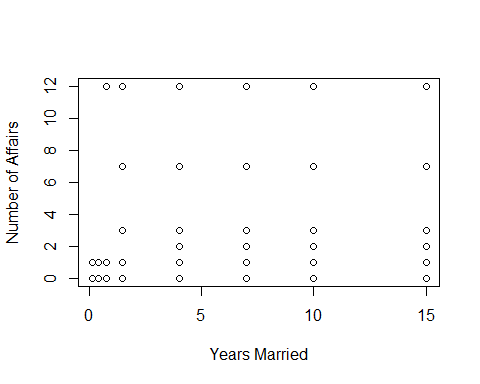
colnames(marriage\_data)

## [1] "X" "affairs" "gender" "age"   
## [5] "yearsmarried" "children" "religiousness" "education"   
## [9] "occupation" "rating"

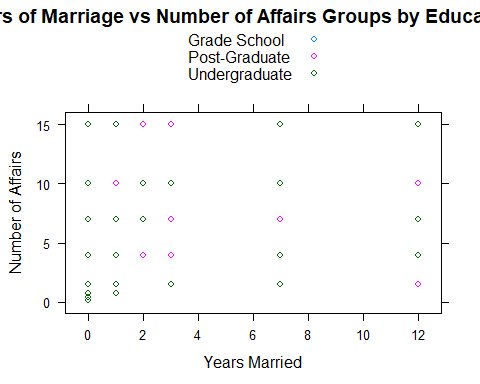
str(marriage\_data)

## 'data.frame': 601 obs. of 10 variables:  
## $ X : int 4 5 11 16 23 29 44 45 47 49 ...  
## $ affairs : int 0 0 0 0 0 0 0 0 0 0 ...  
## $ gender : chr "male" "female" "female" "male" ...  
## $ age : num 37 27 32 57 22 32 22 57 32 22 ...  
## $ yearsmarried : num 10 4 15 15 0.75 1.5 0.75 15 15 1.5 ...  
## $ children : chr "no" "no" "yes" "yes" ...  
## $ religiousness: int 3 4 1 5 2 2 2 2 4 4 ...  
## $ education : int 18 14 12 18 17 17 12 14 16 14 ...  
## $ occupation : int 7 6 1 6 6 5 1 4 1 4 ...  
## $ rating : int 4 4 4 5 3 5 3 4 2 5 ...

edDescrpt <- character() #because we will be using education as a grouping metric, we first need to take the wide range of numbers and turn them into meaningful categories  
edDescrpt[marriage\_data$education < 12] <- "Grade School" #any education less than 12th grade   
edDescrpt[marriage\_data$education < 16 & marriage\_data$education > 12] <- "Undergraduate" #any edudation between undergraduate  
edDescrpt[marriage\_data$education < 99 & marriage\_data$education > 16] <- "Post-Graduate" #any education post-undergraduate  
  
plot(x = marriage\_data$yearsmarried, y = marriage\_data$affairs, xlab = "Years Married", ylab = "Number of Affairs") #basic R scatterplot



xyplot(yearsmarried ~ affairs, #xy scatterplot using the Lattice package, allows for a little more visualization  
 data = marriage\_data,  
 group = edDescrpt,  
 auto.key = TRUE,  
 xlab = "Years Married",  
 ylab = "Number of Affairs",  
 main = "Years of Marriage vs Number of Affairs Groups by Education")



ggplot(data = marriage\_data, aes(x = yearsmarried, y = affairs)) + #xy scatterplot using GGPlot, my personal favorite  
 geom\_point(aes(shape = gender, color = edDescrpt)) +  
 labs(title = "Years of Marriage vs Number of Affairs Groups by Education", x = "Years Married", y = " Number of Affairs")

