Q3

rhadoop

2019년 3월 19일

#### 문제 2. 미성년 인구 백분율이 가장 높은 상위 5 개 county(지역)의 미성년 인구 백분율을 출력하세요.

library(tidyverse)

## ─ Attaching packages ──────────────────────────────────────── tidyverse 1.2.1 ─

## ✔ ggplot2 3.1.0 ✔ purrr 0.2.4   
## ✔ tibble 2.1.1 ✔ dplyr 0.8.0.1  
## ✔ tidyr 0.8.3 ✔ stringr 1.2.0   
## ✔ readr 1.1.1 ✔ forcats 0.2.0

## ─ Conflicts ───────────────────────────────────────── tidyverse\_conflicts() ─  
## ✖ dplyr::filter() masks stats::filter()  
## ✖ dplyr::lag() masks stats::lag()

library(sqldf)

## Loading required package: gsubfn

## Loading required package: proto

## Loading required package: RSQLite

midwest=as.data.frame(ggplot2::midwest)

### dplyr

mid\_df <- midwest %>%  
 mutate(ratio\_child = (poptotal-popadults)/poptotal\*100)   
  
mid\_df %>% select(county,ratio\_child) %>%   
 mutate(grade=ifelse(ratio\_child>=40,'large',  
 ifelse(ratio\_child<30,'small','middle'))) %>%   
 group\_by(grade) %>%   
 summarise(n=n())

## # A tibble: 3 x 2  
## grade n  
## <chr> <int>  
## 1 large 32  
## 2 middle 396  
## 3 small 9

### sqldf

sqldf("select \*, (poptotal-popadults)/(poptotal\*1.)\*100 as ratio\_child  
 from midwest  
 ") ->sql\_df  
  
sqldf("select grade, count(\*) as n  
 from (  
 select ratio\_child,   
 case   
 when ratio\_child >= 40 then 'large'  
 when ratio\_child < 30 then 'small'  
 else 'middle'  
 end as grade   
 from sql\_df)  
 group by grade  
 ")

## grade n  
## 1 large 32  
## 2 middle 396  
## 3 small 9

### R

midwest$ratio\_child = (midwest$poptotal-midwest$popadults)/midwest$poptotal\*100  
  
midwest$grade = ifelse(midwest$ratio\_child>=40,'large',  
 ifelse(midwest$ratio\_child<30,'small','middle'))  
  
midwest

## PID county state area poptotal popdensity popwhite popblack  
## 1 561 ADAMS IL 0.052 66090 1270.9615 63917 1702  
## 2 562 ALEXANDER IL 0.014 10626 759.0000 7054 3496  
## 3 563 BOND IL 0.022 14991 681.4091 14477 429  
## 4 564 BOONE IL 0.017 30806 1812.1176 29344 127  
## 5 565 BROWN IL 0.018 5836 324.2222 5264 547  
## 6 566 BUREAU IL 0.050 35688 713.7600 35157 50  
## 7 567 CALHOUN IL 0.017 5322 313.0588 5298 1  
## 8 568 CARROLL IL 0.027 16805 622.4074 16519 111  
## 9 569 CASS IL 0.024 13437 559.8750 13384 16  
## 10 570 CHAMPAIGN IL 0.058 173025 2983.1897 146506 16559  
## 11 571 CHRISTIAN IL 0.042 34418 819.4762 34176 82  
## 12 572 CLARK IL 0.030 15921 530.7000 15842 10  
## 13 573 CLAY IL 0.028 14460 516.4286 14403 4  
## 14 574 CLINTON IL 0.029 33944 1170.4828 32688 1021  
## 15 575 COLES IL 0.030 51644 1721.4667 50177 925  
## 16 576 COOK IL 0.058 5105067 88018.3966 3204947 1317147  
## 17 577 CRAWFORD IL 0.026 19464 748.6154 19300 63  
## 18 578 CUMBERLAND IL 0.020 10670 533.5000 10627 5  
## 19 579 DE KALB IL 0.038 77932 2050.8421 72968 2069  
## 20 580 DE WITT IL 0.023 16516 718.0870 16387 25  
## 21 581 DOUGLAS IL 0.025 19464 778.5600 19280 16  
## 22 582 DU PAGE IL 0.020 781666 39083.3000 714905 15462  
## 23 583 EDGAR IL 0.036 19595 544.3056 19469 68  
## 24 584 EDWARDS IL 0.014 7440 531.4286 7401 6  
## 25 585 EFFINGHAM IL 0.028 31704 1132.2857 31523 12  
## 26 586 FAYETTE IL 0.044 20893 474.8409 20148 599  
## 27 587 FORD IL 0.030 14275 475.8333 14157 43  
## 28 588 FRANKLIN IL 0.025 40319 1612.7600 40068 36  
## 29 589 FULTON IL 0.052 38080 732.3077 37117 668  
## 30 590 GALLATIN IL 0.019 6909 363.6316 6842 42  
## 31 591 GREENE IL 0.033 15317 464.1515 15231 14  
## 32 592 GRUNDY IL 0.026 32337 1243.7308 31864 21  
## 33 593 HAMILTON IL 0.025 8499 339.9600 8462 3  
## 34 594 HANCOCK IL 0.047 21373 454.7447 21272 26  
## 35 595 HARDIN IL 0.009 5189 576.5556 5062 85  
## 36 596 HENDERSON IL 0.023 8096 352.0000 8037 8  
## 37 597 HENRY IL 0.051 51159 1003.1177 49969 657  
## 38 598 IROQUOIS IL 0.067 30787 459.5075 30154 164  
## 39 599 JACKSON IL 0.036 61067 1696.3056 51991 6342  
## 40 600 JASPER IL 0.029 10609 365.8276 10574 1  
## 41 601 JEFFERSON IL 0.033 37020 1121.8182 34856 1924  
## 42 602 JERSEY IL 0.023 20539 893.0000 20346 96  
## 43 603 JO DAVIESS IL 0.035 21821 623.4571 21732 14  
## 44 604 JOHNSON IL 0.020 11347 567.3500 10230 1046  
## 45 605 KANE IL 0.029 317471 10947.2759 269675 19006  
## 46 606 KANKAKEE IL 0.039 96255 2468.0769 80194 14399  
## 47 607 KENDALL IL 0.018 39413 2189.6111 38019 210  
## 48 608 KNOX IL 0.042 56393 1342.6905 52413 2860  
## 49 609 LAKE IL 0.028 516418 18443.5000 450666 34771  
## 50 610 LA SALLE IL 0.068 106913 1572.2500 103805 1153  
## 51 611 LAWRENCE IL 0.022 15972 726.0000 15759 151  
## 52 612 LEE IL 0.043 34392 799.8140 32530 1222  
## 53 613 LIVINGSTON IL 0.062 39301 633.8871 36551 2115  
## 54 614 LOGAN IL 0.036 30798 855.5000 29223 1291  
## 55 615 MCDONOUGH IL 0.034 35244 1036.5882 32992 1254  
## 56 616 MCHENRY IL 0.036 183241 5090.0278 178895 310  
## 57 617 MCLEAN IL 0.068 129180 1899.7059 121057 5563  
## 58 618 MACON IL 0.035 117206 3348.7429 102197 14135  
## 59 619 MACOUPIN IL 0.050 47679 953.5800 47077 379  
## 60 620 MADISON IL 0.045 249238 5538.6222 230217 16136  
## 61 621 MARION IL 0.035 41561 1187.4571 39647 1519  
## 62 622 MARSHALL IL 0.023 12846 558.5217 12752 17  
## 63 623 MASON IL 0.033 16269 493.0000 16180 8  
## 64 624 MASSAC IL 0.014 14752 1053.7143 13804 870  
## 65 625 MENARD IL 0.018 11164 620.2222 11101 9  
## 66 626 MERCER IL 0.033 17290 523.9394 17155 30  
## 67 627 MONROE IL 0.023 22422 974.8696 22262 13  
## 68 628 MONTGOMERY IL 0.041 30728 749.4634 29956 559  
## 69 629 MORGAN IL 0.033 36397 1102.9394 34561 1510  
## 70 630 MOULTRIE IL 0.021 13930 663.3333 13884 8  
## 71 631 OGLE IL 0.045 45957 1021.2667 44895 66  
## 72 632 PEORIA IL 0.038 182827 4811.2368 154298 24892  
## 73 633 PERRY IL 0.026 21412 823.5385 20901 399  
## 74 634 PIATT IL 0.025 15548 621.9200 15508 8  
## 75 635 PIKE IL 0.049 17577 358.7143 17499 8  
## 76 636 POPE IL 0.022 4373 198.7727 4072 266  
## 77 637 PULASKI IL 0.011 7523 683.9091 5032 2466  
## 78 638 PUTNAM IL 0.010 5730 573.0000 5616 9  
## 79 639 RANDOLPH IL 0.036 34583 960.6389 31532 2852  
## 80 640 RICHLAND IL 0.022 16545 752.0455 16442 17  
## 81 641 ROCK ISLAND IL 0.028 148723 5311.5357 133428 10488  
## 82 642 ST CLAIR IL 0.040 262852 6571.3000 187866 71275  
## 83 643 SALINE IL 0.022 26551 1206.8636 25452 931  
## 84 644 SANGAMON IL 0.051 178386 3497.7647 162013 14364  
## 85 645 SCHUYLER IL 0.026 7498 288.3846 7479 2  
## 86 646 SCOTT IL 0.015 5644 376.2667 5634 1  
## 87 647 SHELBY IL 0.044 22261 505.9318 22190 14  
## 88 648 STARK IL 0.017 6534 384.3529 6496 8  
## 89 649 STEPHENSON IL 0.033 48052 1456.1212 44524 3081  
## 90 650 TAZEWELL IL 0.039 123692 3171.5897 122639 186  
## 91 651 UNION IL 0.024 17619 734.1250 17313 122  
## 92 652 VERMILION IL 0.052 88257 1697.2500 78956 7841  
## 93 653 WABASH IL 0.012 13111 1092.5833 12955 40  
## 94 654 WARREN IL 0.033 19181 581.2424 18630 356  
## 95 655 WASHINGTON IL 0.033 14965 453.4848 14856 46  
## 96 656 WAYNE IL 0.042 17241 410.5000 17141 9  
## 97 657 WHITE IL 0.029 16522 569.7241 16397 41  
## 98 658 WHITESIDE IL 0.041 60186 1467.9512 57135 417  
## 99 659 WILL IL 0.050 357313 7146.2600 303420 38361  
## 100 660 WILLIAMSON IL 0.025 57733 2309.3200 56135 1147  
## 101 661 Winnebago IL 0.030 252913 8430.4333 222439 23256  
## 102 662 WOODFORD IL 0.032 32653 1020.4062 32388 64  
## 103 663 ADAMS IN 0.021 31095 1480.7143 30530 36  
## 104 664 ALLEN IN 0.041 300836 7337.4634 264086 30314  
## 105 665 BARTHOLOMEW IN 0.022 63657 2893.5000 61774 1005  
## 106 666 BENTON IN 0.024 9441 393.3750 9389 6  
## 107 667 BLACKFORD IN 0.010 14067 1406.7000 13978 7  
## 108 668 BOONE IN 0.024 38147 1589.4583 37814 83  
## 109 669 BROWN IN 0.019 14080 741.0526 13968 13  
## 110 670 CARROLL IN 0.022 18809 854.9545 18720 19  
## 111 671 CASS IN 0.024 38413 1600.5417 37765 330  
## 112 672 CLARK IN 0.022 87777 3989.8636 82289 4703  
## 113 673 CLAY IN 0.021 24705 1176.4286 24522 113  
## 114 674 CLINTON IN 0.023 30974 1346.6956 30657 36  
## 115 675 CRAWFORD IN 0.018 9914 550.7778 9868 9  
## 116 676 DAVIESS IN 0.026 27533 1058.9615 27372 99  
## 117 677 DEARBORN IN 0.019 38835 2043.9474 38440 252  
## 118 678 DECATUR IN 0.022 23645 1074.7727 23444 39  
## 119 679 DE KALB IN 0.022 35324 1605.6364 35009 37  
## 120 680 DELAWARE IN 0.023 119659 5202.5652 111232 7167  
## 121 681 DUBOIS IN 0.026 36616 1408.3077 36466 33  
## 122 682 ELKHART IN 0.027 156198 5785.1111 146505 7106  
## 123 683 FAYETTE IN 0.012 26015 2167.9167 25462 435  
## 124 684 FLOYD IN 0.009 64404 7156.0000 61415 2642  
## 125 685 FOUNTAIN IN 0.025 17808 712.3200 17726 4  
## 126 686 FRANKLIN IN 0.023 19580 851.3043 19496 10  
## 127 687 FULTON IN 0.021 18840 897.1429 18555 151  
## 128 688 GIBSON IN 0.029 31913 1100.4483 31146 596  
## 129 689 GRANT IN 0.024 74169 3090.3750 67817 5047  
## 130 690 GREENE IN 0.033 30410 921.5152 30248 10  
## 131 691 HAMILTON IN 0.024 108936 4539.0000 106764 676  
## 132 692 HANCOCK IN 0.017 45527 2678.0588 45173 44  
## 133 693 HARRISON IN 0.028 29890 1067.5000 29641 124  
## 134 694 HENDRICKS IN 0.024 75717 3154.8750 74519 685  
## 135 695 HENRY IN 0.024 48139 2005.7917 47446 474  
## 136 696 HOWARD IN 0.016 80827 5051.6875 75420 4398  
## 137 697 HUNTINGTON IN 0.023 35427 1540.3044 35012 52  
## 138 698 JACKSON IN 0.030 37730 1257.6667 37289 138  
## 139 699 JASPER IN 0.034 24960 734.1176 24659 111  
## 140 700 JAY IN 0.022 21512 977.8182 21313 30  
## 141 701 JEFFERSON IN 0.021 29797 1418.9048 29181 363  
## 142 702 JENNINGS IN 0.021 23661 1126.7143 23347 209  
## 143 703 JOHNSON IN 0.018 88109 4894.9444 86455 845  
## 144 704 KNOX IN 0.031 39884 1286.5807 39107 486  
## 145 705 KOSCIUSKO IN 0.032 65294 2040.4375 64058 309  
## 146 706 LAGRANGE IN 0.022 29477 1339.8636 29156 44  
## 147 707 LAKE IN 0.030 475594 15853.1333 334203 116688  
## 148 708 LA PORTE IN 0.036 107066 2974.0556 96286 9580  
## 149 709 LAWRENCE IN 0.027 42836 1586.5185 42536 109  
## 150 710 MADISON IN 0.026 130669 5025.7308 119734 9870  
## 151 711 MARION IN 0.023 797159 34659.0870 615039 169654  
## 152 712 MARSHALL IN 0.026 42182 1622.3846 41508 76  
## 153 713 MARTIN IN 0.021 10369 493.7619 10321 12  
## 154 714 MIAMI IN 0.024 36897 1537.3750 34784 1115  
## 155 715 MONROE IN 0.024 108978 4540.7500 102752 2835  
## 156 716 MONTGOMERY IN 0.030 34436 1147.8667 33971 201  
## 157 717 MORGAN IN 0.024 55920 2330.0000 55635 9  
## 158 718 NEWTON IN 0.024 13551 564.6250 13436 9  
## 159 719 NOBLE IN 0.025 37877 1515.0800 37456 58  
## 160 720 OHIO IN 0.005 5315 1063.0000 5255 41  
## 161 721 ORANGE IN 0.023 18409 800.3913 18213 127  
## 162 722 OWEN IN 0.023 17281 751.3478 17167 44  
## 163 723 PARKE IN 0.027 15410 570.7407 15222 118  
## 164 724 PERRY IN 0.022 19107 868.5000 18819 210  
## 165 725 PIKE IN 0.020 12509 625.4500 12469 3  
## 166 726 PORTER IN 0.026 128932 4958.9231 126329 454  
## 167 727 POSEY IN 0.025 25968 1038.7200 25588 283  
## 168 728 PULASKI IN 0.026 12643 486.2692 12509 65  
## 169 729 PUTNAM IN 0.029 30315 1045.3448 29196 826  
## 170 730 RANDOLPH IN 0.026 27148 1044.1538 26947 56  
## 171 731 RIPLEY IN 0.025 24616 984.6400 24501 16  
## 172 732 RUSH IN 0.023 18129 788.2174 17901 142  
## 173 733 ST JOSEPH IN 0.028 247052 8823.2857 216984 24190  
## 174 734 SCOTT IN 0.011 20991 1908.2727 20850 16  
## 175 735 SHELBY IN 0.024 40307 1679.4583 39743 330  
## 176 736 SPENCER IN 0.024 19490 812.0833 19295 111  
## 177 737 STARKE IN 0.019 22747 1197.2105 22446 73  
## 178 738 STEUBEN IN 0.021 27446 1306.9524 27146 51  
## 179 739 SULLIVAN IN 0.027 18993 703.4444 18905 15  
## 180 740 SWITZERLAND IN 0.013 7738 595.2308 7695 15  
## 181 741 TIPPECANOE IN 0.030 130598 4353.2667 122013 2660  
## 182 742 TIPTON IN 0.016 16119 1007.4375 15990 10  
## 183 743 UNION IN 0.010 6976 697.6000 6915 20  
## 184 744 VANDERBURGH IN 0.013 165058 12696.7692 151216 12410  
## 185 745 VERMILLION IN 0.016 16773 1048.3125 16690 15  
## 186 746 VIGO IN 0.024 106107 4421.1250 98411 5916  
## 187 747 WABASH IN 0.023 35069 1524.7391 34462 138  
## 188 748 WARREN IN 0.021 8176 389.3333 8140 1  
## 189 749 WARRICK IN 0.023 44920 1953.0435 44274 371  
## 190 750 WASHINGTON IN 0.030 23717 790.5667 23625 23  
## 191 751 WAYNE IN 0.024 71951 2997.9583 67532 3795  
## 192 752 WELLS IN 0.021 25948 1235.6191 25758 10  
## 193 753 WHITE IN 0.030 23265 775.5000 23127 2  
## 194 754 WHITLEY IN 0.020 27651 1382.5500 27473 29  
## 195 1197 ALCONA MI 0.041 10145 247.4390 10026 27  
## 196 1198 ALGER MI 0.051 8972 175.9216 8422 213  
## 197 1199 ALLEGAN MI 0.049 90509 1847.1225 86760 1448  
## 198 1200 ALPENA MI 0.034 30605 900.1471 30372 35  
## 199 1201 ANTRIM MI 0.031 18185 586.6129 17895 23  
## 200 1202 ARENAC MI 0.021 14931 711.0000 14695 10  
## 201 1203 BARAGA MI 0.054 7954 147.2963 6971 49  
## 202 1204 BARRY MI 0.034 50057 1472.2647 49429 104  
## 203 1205 BAY MI 0.026 111723 4297.0385 107747 1242  
## 204 1206 BENZIE MI 0.020 12200 610.0000 11863 30  
## 205 1207 BERRIEN MI 0.033 161378 4890.2424 133259 24872  
## 206 1208 BRANCH MI 0.029 41502 1431.1035 40278 705  
## 207 1209 CALHOUN MI 0.042 135982 3237.6667 118737 14383  
## 208 1210 CASS MI 0.030 49477 1649.2333 44827 3725  
## 209 1211 CHARLEVOIX MI 0.022 21468 975.8182 20993 17  
## 210 1212 CHEBOYGAN MI 0.048 21398 445.7917 20837 15  
## 211 1213 CHIPPEWA MI 0.078 34604 443.6410 28353 2184  
## 212 1214 CLARE MI 0.034 24952 733.8824 24665 40  
## 213 1215 CLINTON MI 0.034 57883 1702.4412 56639 218  
## 214 1216 CRAWFORD MI 0.034 12260 360.5882 11802 264  
## 215 1217 DELTA MI 0.069 37780 547.5362 36819 16  
## 216 1218 DICKINSON MI 0.046 26831 583.2826 26532 23  
## 217 1219 EATON MI 0.034 92879 2731.7353 87549 3310  
## 218 1220 EMMET MI 0.027 25040 927.4074 24122 133  
## 219 1221 GENESEE MI 0.037 430459 11634.0270 336651 84257  
## 220 1222 GLADWIN MI 0.031 21896 706.3226 21694 19  
## 221 1223 GOGEBIC MI 0.068 18052 265.4706 17486 243  
## 222 1224 GRAND TRAVERSE MI 0.030 64273 2142.4333 63019 259  
## 223 1225 GRATIOT MI 0.033 38982 1181.2727 37827 328  
## 224 1226 HILLSDALE MI 0.034 43431 1277.3824 42919 113  
## 225 1227 HOUGHTON MI 0.060 35446 590.7667 34469 158  
## 226 1228 HURON MI 0.050 34951 699.0200 34627 22  
## 227 1229 INGHAM MI 0.034 281912 8291.5294 237183 27837  
## 228 1230 IONIA MI 0.034 57024 1677.1765 53141 3003  
## 229 1231 IOSCO MI 0.033 30209 915.4242 28966 632  
## 230 1232 IRON MI 0.070 13175 188.2143 13028 4  
## 231 1233 ISABELLA MI 0.034 54624 1606.5882 52212 635  
## 232 1234 JACKSON MI 0.043 149756 3482.6977 135557 11983  
## 233 1235 KALAMAZOO MI 0.033 223411 6770.0303 197427 19879  
## 234 1236 KALKASKA MI 0.033 13497 409.0000 13321 10  
## 235 1237 KENT MI 0.050 500631 10012.6200 444112 40314  
## 236 1238 KEWEENAW MI 0.020 1701 85.0500 1688 1  
## 237 1239 LAKE MI 0.035 8583 245.2286 7337 1146  
## 238 1240 LAPEER MI 0.038 74768 1967.5790 73049 483  
## 239 1241 LEELANAU MI 0.021 16527 787.0000 15958 16  
## 240 1242 LENAWEE MI 0.043 91476 2127.3488 86323 1431  
## 241 1243 LIVINGSTON MI 0.034 115645 3401.3235 113566 673  
## 242 1244 LUCE MI 0.055 5763 104.7818 5418 2  
## 243 1245 MACKINAC MI 0.059 10674 180.9153 8955 5  
## 244 1246 MACOMB MI 0.028 717400 25621.4286 693686 10400  
## 245 1247 MANISTEE MI 0.032 21265 664.5312 20851 54  
## 246 1248 MARQUETTE MI 0.110 70887 644.4273 68027 1170  
## 247 1249 MASON MI 0.029 25537 880.5862 24957 155  
## 248 1250 MECOSTA MI 0.034 37308 1097.2941 35739 978  
## 249 1251 MENOMINEE MI 0.064 24920 389.3750 24464 7  
## 250 1252 MIDLAND MI 0.031 75651 2440.3548 73466 719  
## 251 1253 MISSAUKEE MI 0.033 12147 368.0909 12015 3  
## 252 1254 MONROE MI 0.033 133600 4048.4848 129421 2339  
## 253 1255 MONTCALM MI 0.042 53059 1263.3095 51216 960  
## 254 1256 MONTMORENCY MI 0.033 8936 270.7879 8861 1  
## 255 1257 MUSKEGON MI 0.028 158983 5677.9643 133931 21617  
## 256 1258 NEWAYGO MI 0.051 38202 749.0588 36758 468  
## 257 1259 OAKLAND MI 0.055 1083592 19701.6727 970674 77488  
## 258 1260 OCEANA MI 0.030 22454 748.4667 21211 58  
## 259 1261 OGEMAW MI 0.032 18681 583.7812 18489 18  
## 260 1262 ONTONAGON MI 0.078 8854 113.5128 8723 4  
## 261 1263 OSCEOLA MI 0.034 20146 592.5294 19899 57  
## 262 1264 OSCODA MI 0.033 7842 237.6364 7781 2  
## 263 1265 OTSEGO MI 0.031 17957 579.2581 17737 18  
## 264 1266 OTTAWA MI 0.033 187768 5689.9394 179675 997  
## 265 1267 PRESQUE ISLE MI 0.042 13743 327.2143 13648 11  
## 266 1268 ROSCOMMON MI 0.034 19776 581.6471 19597 37  
## 267 1269 SAGINAW MI 0.048 211946 4415.5417 165430 36849  
## 268 1270 ST CLAIR MI 0.040 145607 3640.1750 140294 2987  
## 269 1271 ST JOSEPH MI 0.029 58913 2031.4828 56661 1600  
## 270 1272 SANILAC MI 0.056 39928 713.0000 39232 39  
## 271 1273 SCHOOLCRAFT MI 0.075 8302 110.6933 7755 7  
## 272 1274 SHIAWASSEE MI 0.031 69770 2250.6452 68686 93  
## 273 1275 TUSCOLA MI 0.048 55498 1156.2083 54051 478  
## 274 1276 VAN BUREN MI 0.037 70060 1893.5135 63189 4690  
## 275 1277 WASHTENAW MI 0.041 282937 6900.9024 236390 31720  
## 276 1278 WAYNE MI 0.035 2111687 60333.9143 1212007 849109  
## 277 1279 WEXFORD MI 0.034 26360 775.2941 26040 34  
## 278 2009 ADAMS OH 0.035 25371 724.8857 25212 47  
## 279 2010 ALLEN OH 0.024 109755 4573.1250 96177 12313  
## 280 2011 ASHLAND OH 0.025 47507 1900.2800 46686 460  
## 281 2012 ASHTABULA OH 0.041 99821 2434.6585 95465 3138  
## 282 2013 ATHENS OH 0.030 59549 1984.9667 56163 1678  
## 283 2014 AUGLAIZE OH 0.024 44585 1857.7083 44225 66  
## 284 2015 BELMONT OH 0.031 71074 2292.7097 69520 1308  
## 285 2016 BROWN OH 0.028 34966 1248.7857 34487 406  
## 286 2017 BUTLER OH 0.028 291479 10409.9643 274892 13134  
## 287 2018 CARROLL OH 0.024 26521 1105.0417 26254 135  
## 288 2019 CHAMPAIGN OH 0.026 36019 1385.3462 34698 992  
## 289 2020 CLARK OH 0.024 147548 6147.8333 133242 13031  
## 290 2021 CLERMONT OH 0.026 150187 5776.4231 148084 1291  
## 291 2022 CLINTON OH 0.024 35415 1475.6250 34471 716  
## 292 2023 COLUMBIANA OH 0.031 108276 3492.7742 106369 1409  
## 293 2024 COSHOCTON OH 0.034 35427 1041.9706 34819 415  
## 294 2025 CRAWFORD OH 0.023 47870 2081.3043 47361 253  
## 295 2026 CUYAHOGA OH 0.026 1412140 54313.0769 1025756 350185  
## 296 2027 DARKE OH 0.036 53619 1489.4167 53067 184  
## 297 2028 DEFIANCE OH 0.023 39350 1710.8696 36962 493  
## 298 2029 DELAWARE OH 0.027 66929 2478.8519 64888 1424  
## 299 2030 ERIE OH 0.014 76779 5484.2143 69613 6312  
## 300 2031 FAIRFIELD OH 0.029 103461 3567.6207 101610 1153  
## 301 2032 FAYETTE OH 0.024 27466 1144.4167 26593 662  
## 302 2033 FRANKLIN OH 0.034 961437 28277.5588 783714 152840  
## 303 2034 FULTON OH 0.025 38498 1539.9200 37097 93  
## 304 2035 GALLIA OH 0.026 30954 1190.5385 29831 871  
## 305 2036 GEAUGA OH 0.024 81129 3380.3750 79629 1056  
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## 206 11.603160 10.717385 0 AAR 36.27777  
## 207 12.370767 9.570531 1 AAU 36.29819  
## 208 9.578417 10.296962 0 AAR 35.64485  
## 209 8.112813 12.005929 0 AAR 34.95901  
## 210 13.302881 14.158559 0 AAR 33.60594  
## 211 16.103505 14.339152 0 AAR 36.86279  
## 212 22.171946 13.563417 0 LHR 34.26980  
## 213 4.981687 7.716216 1 HLU 38.24612  
## 214 12.823920 10.992617 0 AAR 34.28222  
## 215 13.127551 13.107314 0 AAR 35.21440  
## 216 7.144439 13.410788 0 AAR 33.01778  
## 217 5.702137 7.353891 1 HLU 37.33244  
## 218 7.116465 10.171790 0 HAR 34.31310  
## 219 13.843950 9.706895 1 AAU 38.33791  
## 220 20.104799 14.902425 0 LHR 34.28937  
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## 222 7.498031 7.691539 0 HAR 36.06335  
## 223 12.496251 10.702288 0 AAR 38.52034  
## 224 11.297273 11.509408 0 AAR 38.62218  
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## 234 12.525050 14.244663 0 AAR 37.13418  
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## 237 25.070712 18.876497 0 LHR 30.89829  
## 238 6.898498 7.908968 1 AAU 39.22935  
## 239 7.049162 9.205021 0 HAR 32.67381  
## 240 8.627876 10.033398 1 AAU 38.42866  
## 241 3.226462 6.054037 1 HLU 37.44390  
## 242 16.876574 12.835093 0 AHR 33.87125  
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## 246 11.844650 12.523891 0 HAR 40.20624  
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## 248 28.229964 13.168572 0 AHR 49.05918  
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## 251 15.074310 13.246753 0 AAR 37.20260  
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## 253 13.693403 13.773563 0 AAR 37.88236  
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## 261 16.269339 16.219804 0 AHR 37.99762  
## 262 17.000267 13.518606 0 LHR 30.71920  
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## 269 9.776110 8.228422 0 AAR 37.60800  
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## 271 15.321212 14.898990 0 AAR 32.02843  
## 272 9.057358 8.880309 0 AAR 38.22990  
## 273 11.404849 10.074801 0 AAR 37.64280  
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## 288 6.824056 9.933659 0 AAR 36.08096  
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## 310 14.936820 12.594554 0 AAR 40.24943  
## 311 18.299536 11.960784 0 AHR 33.31675  
## 312 5.107684 9.922099 0 ALR 37.31964  
## 313 14.341375 18.154114 0 LAR 36.22929  
## 314 13.482022 14.991523 0 LAR 35.89472  
## 315 12.352242 15.357939 0 LAR 45.87354  
## 316 8.020762 8.168402 0 AAR 38.61842  
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## 323 9.221064 9.521974 0 AAR 36.70527  
## 324 9.428374 8.426621 1 AAU 37.48589  
## 325 13.494457 11.422802 1 AAU 37.28602  
## 326 7.120693 8.113430 1 AAU 35.53469  
## 327 13.850155 10.702853 1 AAU 33.28777  
## 328 10.749388 10.018904 0 AAR 35.83875  
## 329 4.211030 6.324059 1 HLU 37.09891  
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## 331 5.689311 8.044118 0 ALR 39.71047  
## 332 6.304406 8.913941 1 AAU 35.72471  
## 333 18.688999 19.759115 0 AHR 34.20662  
## 334 10.604337 9.440868 1 AAU 35.25197  
## 335 17.948718 14.814815 0 AHR 36.73383  
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## 337 12.623167 11.137507 0 AAR 37.01321  
## 338 12.807200 16.484517 0 AAR 36.17678  
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## 346 4.238700 7.951762 0 ALR 40.77885  
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## 379 5.177405 8.255788 0 ALR 35.09058  
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## 385 6.256579 8.042705 0 AAR 36.98700  
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## 388 6.841711 7.204662 0 AAR 35.04071  
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## 437 7.375656 7.882918 0 AAR 36.42280  
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v\_grade=unique(midwest$grade)  
v\_grade

## [1] "middle" "large" "small"

for (grade in v\_grade) {  
 group\_temp=midwest[midwest$grade==grade,"grade"]  
 n=length(group\_temp)  
 group\_temp=data.frame(grade,n)  
 if (which(v\_grade==grade)==1)  
 result =group\_temp  
 else  
 result= rbind(result,group\_temp)  
   
}  
result

## grade n  
## 1 middle 396  
## 2 large 32  
## 3 small 9