Rproject\_A00268832

Reonne\_A00268832

7 December 2019

library(stringr)  
library(tidyr)  
library(dplyr)

##   
## Attaching package: 'dplyr'

## The following objects are masked from 'package:stats':  
##   
## filter, lag

## The following objects are masked from 'package:base':  
##   
## intersect, setdiff, setequal, union

countydata <- read.csv("C:\\Users\\Reonne\\Downloads\\TransportCSOfile.csv")  
  
  
  
colnames(countydata)

## [1] "Datacode"   
## [2] "SA\_NAME"   
## [3] "GEOGID"   
## [4] "Electoral.Division.CSO.Code"   
## [5] "Electoral.Division.Name"   
## [6] "County"   
## [7] "NUTS\_III"   
## [8] "NUTS\_II"   
## [9] "Planning.Region"   
## [10] "Population\_Aged\_5\_Over\_By\_Means\_Of\_Travel\_To\_Work\_School\_College\_On\_Foot\_2011"   
## [11] "Population\_Aged\_5\_Over\_By\_Means\_Of\_Travel\_To\_Work\_School\_College\_Bicycle\_2011"   
## [12] "Population\_Aged\_5\_Over\_By\_Means\_Of\_Travel\_To\_Work\_School\_College\_Bus\_Minibus\_Coach\_2011"   
## [13] "Population\_Aged\_5\_Over\_By\_Means\_Of\_Travel\_To\_Work\_School\_College\_Train\_Dart\_Luas\_2011"   
## [14] "Population\_Aged\_5\_Over\_By\_Means\_Of\_Travel\_To\_Work\_School\_College\_Motorcycle\_Scooter\_2011"   
## [15] "Population\_Aged\_5\_Over\_By\_Means\_Of\_Travel\_To\_Work\_School\_College\_Car\_Driver\_2011"   
## [16] "Population\_Aged\_5\_Over\_By\_Means\_Of\_Travel\_To\_Work\_School\_College\_Car\_Passenger\_2011"   
## [17] "Population\_Aged\_5\_Over\_By\_Means\_Of\_Travel\_To\_Work\_School\_College\_Van\_2011"   
## [18] "Population\_Aged\_5\_Over\_By\_Means\_Of\_Travel\_To\_Work\_School\_College\_Other\_2011"   
## [19] "Population\_Aged\_5\_Over\_By\_Means\_Of\_Travel\_To\_Work\_School\_College\_Soft\_Modes\_Comb\_2011"   
## [20] "Population\_Aged\_5\_Over\_By\_Means\_Of\_Travel\_To\_Work\_School\_College\_Public\_Transport\_Comb\_2011"   
## [21] "Population\_Aged\_5\_Over\_By\_Means\_Of\_Travel\_To\_Work\_School\_College\_Private\_Transport\_Comb\_2011"   
## [22] "Population\_Aged\_5\_Over\_By\_Means\_Of\_Travel\_To\_Work\_School\_College\_Total\_2011"   
## [23] "Population\_Aged\_5\_Over\_By\_Time\_Leaving\_Home\_To\_Travel\_To\_Work\_School\_College\_Before\_0630\_2011"   
## [24] "Population\_Aged\_5\_Over\_By\_Time\_Leaving\_Home\_To\_Travel\_To\_Work\_School\_College\_0630\_0700\_2011"   
## [25] "Population\_Aged\_5\_Over\_By\_Time\_Leaving\_Home\_To\_Travel\_To\_Work\_School\_College\_0701\_0730\_2011"   
## [26] "Population\_Aged\_5\_Over\_By\_Time\_Leaving\_Home\_To\_Travel\_To\_Work\_School\_College\_0731\_8000\_2011"   
## [27] "Population\_Aged\_5\_Over\_By\_Time\_Leaving\_Home\_To\_Travel\_To\_Work\_School\_College\_0801\_0830\_2011"   
## [28] "Population\_Aged\_5\_Over\_By\_Time\_Leaving\_Home\_To\_Travel\_To\_Work\_School\_College\_0831\_0900\_2011"   
## [29] "Population\_Aged\_5\_Over\_By\_Time\_Leaving\_Home\_To\_Travel\_To\_Work\_School\_College\_0901\_0930\_2011"   
## [30] "Population\_Aged\_5\_Over\_By\_Time\_Leaving\_Home\_To\_Travel\_To\_Work\_School\_College\_After\_0930\_2011"   
## [31] "Population\_Aged\_5\_Over\_By\_Time\_Leaving\_Home\_To\_Travel\_To\_Work\_School\_College\_Not\_Stated\_2011"   
## [32] "Population\_Aged\_5\_Over\_By\_Time\_Leaving\_Home\_To\_Travel\_To\_Work\_School\_College\_Total\_2011"   
## [33] "Population\_Aged\_5\_Over\_By\_Journey\_Time\_To\_Work\_School\_College\_Under\_15\_mins\_2011"   
## [34] "Population\_Aged\_5\_Over\_By\_Journey\_Time\_To\_Work\_School\_College\_Quarter\_To\_Under\_Half\_Hour\_2011"   
## [35] "Population\_Aged\_5\_Over\_By\_Journey\_Time\_To\_Work\_School\_College\_Half\_Hour\_To\_Under\_Three\_Quarter\_Hours\_2011"  
## [36] "Population\_Aged\_5\_Over\_By\_Journey\_Time\_To\_Work\_School\_College\_Three\_Quarter\_Hours\_To\_Under\_One\_Hour\_2011"   
## [37] "Population\_Aged\_5\_Over\_By\_Journey\_Time\_To\_Work\_School\_College\_One\_Hour\_To\_Under\_One\_Hour\_Thirty\_Mins\_2011"  
## [38] "Population\_Aged\_5\_Over\_By\_Journey\_Time\_To\_Work\_School\_College\_One\_And\_Half\_Hours\_And\_Over\_2011"   
## [39] "Population\_Aged\_5\_Over\_By\_Journey\_Time\_To\_Work\_School\_College\_Not\_Stated\_2011"   
## [40] "Population\_Aged\_5\_Over\_By\_Journey\_Time\_To\_Work\_School\_College\_Total\_2011"

## Inputing csv file and boxplot on the data

The above piece of code inputs th csv file and creates a boxplot on the data of the csv file. colnames function retrieves the column names in the csv dataset.

for(x in 10:40) {  
 word\_location = str\_locate(colnames(countydata)[x],"College\_")[2]  
 colnames(countydata)[x] = substring(colnames(countydata)[x],word\_location+1)  
   
}  
  
colnames(countydata)[22]= "Mean\_Total"  
colnames(countydata)[32]= "Total\_Time"  
colnames(countydata)[40]= "Journey\_Total"

## Locating the word and renaming for efficiency

To rename column names, we use for loop and string package functions to do the necessary. Certain columns would not abide by the stringr check conditions and hence we manually assigned column names.

for(x in 24:29){  
 colnames(countydata)[x] <- paste("During\_", sep = "",colnames(countydata)[x])  
}

To check and for appropriate change in column names.

colnames(countydata)

## [1] "Datacode"   
## [2] "SA\_NAME"   
## [3] "GEOGID"   
## [4] "Electoral.Division.CSO.Code"   
## [5] "Electoral.Division.Name"   
## [6] "County"   
## [7] "NUTS\_III"   
## [8] "NUTS\_II"   
## [9] "Planning.Region"   
## [10] "On\_Foot\_2011"   
## [11] "Bicycle\_2011"   
## [12] "Bus\_Minibus\_Coach\_2011"   
## [13] "Train\_Dart\_Luas\_2011"   
## [14] "Motorcycle\_Scooter\_2011"   
## [15] "Car\_Driver\_2011"   
## [16] "Car\_Passenger\_2011"   
## [17] "Van\_2011"   
## [18] "Other\_2011"   
## [19] "Soft\_Modes\_Comb\_2011"   
## [20] "Public\_Transport\_Comb\_2011"   
## [21] "Private\_Transport\_Comb\_2011"   
## [22] "Mean\_Total"   
## [23] "Before\_0630\_2011"   
## [24] "During\_0630\_0700\_2011"   
## [25] "During\_0701\_0730\_2011"   
## [26] "During\_0731\_8000\_2011"   
## [27] "During\_0801\_0830\_2011"   
## [28] "During\_0831\_0900\_2011"   
## [29] "During\_0901\_0930\_2011"   
## [30] "After\_0930\_2011"   
## [31] "Not\_Stated\_2011"   
## [32] "Total\_Time"   
## [33] "Under\_15\_mins\_2011"   
## [34] "Quarter\_To\_Under\_Half\_Hour\_2011"   
## [35] "Half\_Hour\_To\_Under\_Three\_Quarter\_Hours\_2011"  
## [36] "Three\_Quarter\_Hours\_To\_Under\_One\_Hour\_2011"   
## [37] "One\_Hour\_To\_Under\_One\_Hour\_Thirty\_Mins\_2011"  
## [38] "One\_And\_Half\_Hours\_And\_Over\_2011"   
## [39] "Not\_Stated\_2011"   
## [40] "Journey\_Total"

str(countydata)

## 'data.frame': 18488 obs. of 40 variables:  
## $ Datacode : int 48 49 50 51 52 53 54 55 56 57 ...  
## $ SA\_NAME : Factor w/ 18485 levels "","017012002/017012003",..: 3409 3410 3411 3412 3413 3414 3415 3416 3417 3418 ...  
## $ GEOGID : Factor w/ 18488 levels "A017001001","A017002001",..: 1 2 3 4 5 6 7 8 9 10 ...  
## $ Electoral.Division.CSO.Code : Factor w/ 3409 levels "08045/08046",..: 56 57 57 57 58 58 59 59 59 60 ...  
## $ Electoral.Division.Name : Factor w/ 3406 levels "001 Abbey A",..: 329 362 362 362 395 395 427 427 427 461 ...  
## $ County : Factor w/ 33 levels "Carlow","Cavan",..: 1 1 1 1 1 1 1 1 1 1 ...  
## $ NUTS\_III : Factor w/ 8 levels "Border","Dublin",..: 6 6 6 6 6 6 6 6 6 6 ...  
## $ NUTS\_II : Factor w/ 2 levels "BMW","SE": 2 2 2 2 2 2 2 2 2 2 ...  
## $ Planning.Region : Factor w/ 5 levels "","Eastern and Midlands",..: 5 5 5 5 5 5 5 5 5 5 ...  
## $ On\_Foot\_2011 : int 4 6 16 4 8 11 52 12 13 6 ...  
## $ Bicycle\_2011 : int 0 3 4 1 0 0 1 3 1 2 ...  
## $ Bus\_Minibus\_Coach\_2011 : int 12 8 4 3 15 11 8 10 2 20 ...  
## $ Train\_Dart\_Luas\_2011 : int 3 3 2 0 0 0 1 1 0 0 ...  
## $ Motorcycle\_Scooter\_2011 : int 0 1 1 1 1 0 0 1 1 0 ...  
## $ Car\_Driver\_2011 : int 112 93 113 93 66 84 91 54 37 57 ...  
## $ Car\_Passenger\_2011 : int 71 61 78 51 42 51 24 35 17 31 ...  
## $ Van\_2011 : int 20 14 23 9 10 17 15 8 4 13 ...  
## $ Other\_2011 : int 27 19 11 10 17 29 7 20 8 7 ...  
## $ Soft\_Modes\_Comb\_2011 : int 4 9 20 5 8 11 53 15 14 8 ...  
## $ Public\_Transport\_Comb\_2011 : int 15 11 6 3 15 11 9 11 2 20 ...  
## $ Private\_Transport\_Comb\_2011 : int 203 169 215 154 119 152 130 98 59 101 ...  
## $ Mean\_Total : int 249 208 252 172 159 203 199 144 83 136 ...  
## $ Before\_0630\_2011 : int 11 4 9 6 7 8 21 5 2 5 ...  
## $ During\_0630\_0700\_2011 : int 13 8 17 6 8 14 6 11 6 10 ...  
## $ During\_0701\_0730\_2011 : int 14 11 19 14 17 11 17 9 8 11 ...  
## $ During\_0731\_8000\_2011 : int 34 30 23 17 29 23 26 21 10 30 ...  
## $ During\_0801\_0830\_2011 : int 58 54 53 47 27 42 40 27 21 13 ...  
## $ During\_0831\_0900\_2011 : int 42 60 93 39 34 41 21 22 9 26 ...  
## $ During\_0901\_0930\_2011 : int 44 18 21 19 19 26 51 29 10 29 ...  
## $ After\_0930\_2011 : int 11 5 7 13 4 10 11 2 9 4 ...  
## $ Not\_Stated\_2011 : int 7 5 4 6 1 5 2 4 3 6 ...  
## $ Total\_Time : int 234 195 246 167 146 180 195 130 78 134 ...  
## $ Under\_15\_mins\_2011 : int 78 77 106 73 56 83 76 57 36 61 ...  
## $ Quarter\_To\_Under\_Half\_Hour\_2011 : int 80 73 68 53 40 45 64 38 24 23 ...  
## $ Half\_Hour\_To\_Under\_Three\_Quarter\_Hours\_2011: int 25 25 25 17 25 24 21 17 9 22 ...  
## $ Three\_Quarter\_Hours\_To\_Under\_One\_Hour\_2011 : int 9 3 13 5 5 11 12 5 2 5 ...  
## $ One\_Hour\_To\_Under\_One\_Hour\_Thirty\_Mins\_2011: int 14 5 6 10 7 6 11 3 3 6 ...  
## $ One\_And\_Half\_Hours\_And\_Over\_2011 : int 7 6 17 1 6 6 6 5 1 4 ...  
## $ Not\_Stated\_2011 : int 21 6 11 8 7 5 5 5 3 13 ...  
## $ Journey\_Total : int 234 195 246 167 146 180 195 130 78 134 ...

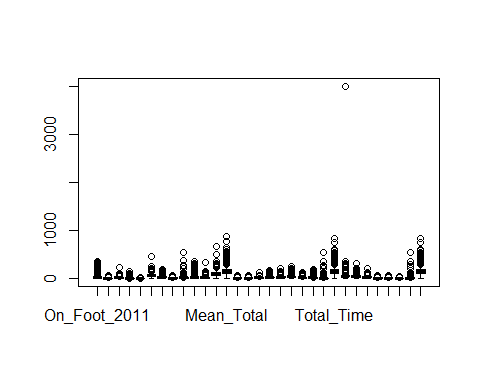
sum(is.na(countydata))

## [1] 2

countydata <- na.omit(countydata)  
summary(countydata)

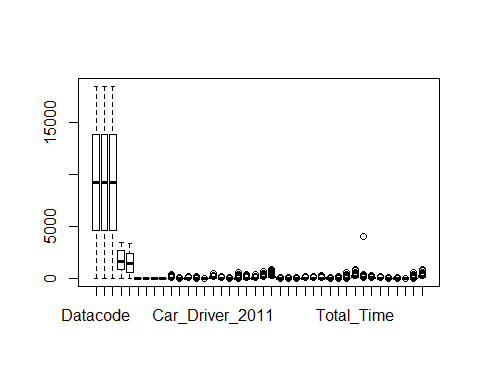
## Datacode SA\_NAME GEOGID   
## Min. : 1 : 4 A017001001: 1   
## 1st Qu.: 4624 017012002/017012003: 1 A017002001: 1   
## Median : 9246 017040001/017040002: 1 A017002002: 1   
## Mean : 9245 017051007/017051014: 1 A017002003: 1   
## 3rd Qu.:13867 017054004/017054005: 1 A017003001: 1   
## Max. :18488 027038001/027047001: 1 A017003002: 1   
## (Other) :18477 (Other) :18480   
## Electoral.Division.CSO.Code Electoral.Division.Name  
## 4009 : 120 009 Blanchardstown-Blakestown: 120   
## 3015 : 92 015 Lucan-Esker : 92   
## 11055 : 85 055 Navan Rural : 85   
## 18086 : 84 086 Douglas : 84   
## 19165 : 75 165 Tralee Rural : 75   
## 16032 : 70 032 Ennis Rural : 70   
## (Other):17960 (Other) :17960   
## County NUTS\_III NUTS\_II   
## Dublin City : 2202 Dublin :4806 BMW: 6937   
## Cork County : 1650 South-West:2870 SE :11549   
## Fingal : 938 Border :2269   
## South Dublin : 906 South-East:2018   
## Donegal : 761 West :1994   
## Dún Laoghaire-Rathdown: 760 Mid-East :1855   
## (Other) :11269 (Other) :2674   
## Planning.Region On\_Foot\_2011 Bicycle\_2011   
## : 18 Min. : 0.00 Min. : 0.000   
## Eastern and Midlands:8222 1st Qu.: 6.00 1st Qu.: 0.000   
## North and West :3792 Median : 16.00 Median : 1.000   
## South : 1 Mean : 22.44 Mean : 3.309   
## Southern :6453 3rd Qu.: 32.00 3rd Qu.: 4.000   
## Max. :343.00 Max. :69.000   
##   
## Bus\_Minibus\_Coach\_2011 Train\_Dart\_Luas\_2011 Motorcycle\_Scooter\_2011  
## Min. : 0.00 Min. : 0.000 Min. : 0.0000   
## 1st Qu.: 6.00 1st Qu.: 0.000 1st Qu.: 0.0000   
## Median : 13.00 Median : 1.000 Median : 0.0000   
## Mean : 15.61 Mean : 3.839 Mean : 0.5037   
## 3rd Qu.: 22.00 3rd Qu.: 3.000 3rd Qu.: 1.0000   
## Max. :221.00 Max. :142.000 Max. :12.0000   
##   
## Car\_Driver\_2011 Car\_Passenger\_2011 Van\_2011 Other\_2011   
## Min. : 0.00 Min. : 0.0 Min. : 0.000 Min. : 0.00   
## 1st Qu.: 38.00 1st Qu.: 13.0 1st Qu.: 3.000 1st Qu.: 5.00   
## Median : 58.00 Median : 24.0 Median : 6.000 Median : 9.00   
## Mean : 60.98 Mean : 27.5 Mean : 6.436 Mean : 10.52   
## 3rd Qu.: 80.00 3rd Qu.: 38.0 3rd Qu.: 9.000 3rd Qu.: 14.00   
## Max. :456.00 Max. :177.0 Max. :63.000 Max. :531.00   
##   
## Soft\_Modes\_Comb\_2011 Public\_Transport\_Comb\_2011  
## Min. : 0.00 Min. : 0.00   
## 1st Qu.: 7.00 1st Qu.: 7.00   
## Median : 19.00 Median : 16.00   
## Mean : 25.75 Mean : 19.45   
## 3rd Qu.: 37.00 3rd Qu.: 28.00   
## Max. :361.00 Max. :330.00   
##   
## Private\_Transport\_Comb\_2011 Mean\_Total Before\_0630\_2011  
## Min. : 0.00 Min. : 3.0 Min. : 0.000   
## 1st Qu.: 60.00 1st Qu.:110.0 1st Qu.: 3.000   
## Median : 91.00 Median :145.0 Median : 5.000   
## Mean : 95.42 Mean :151.1 Mean : 6.602   
## 3rd Qu.:126.00 3rd Qu.:185.0 3rd Qu.: 9.000   
## Max. :667.00 Max. :872.0 Max. :56.000   
##   
## During\_0630\_0700\_2011 During\_0701\_0730\_2011 During\_0731\_8000\_2011  
## Min. : 0.00 Min. : 0.00 Min. : 0.0   
## 1st Qu.: 5.00 1st Qu.: 7.00 1st Qu.: 12.0   
## Median : 8.00 Median : 11.00 Median : 19.0   
## Mean : 8.74 Mean : 12.36 Mean : 21.2   
## 3rd Qu.:12.00 3rd Qu.: 16.00 3rd Qu.: 28.0   
## Max. :57.00 Max. :132.00 Max. :159.0   
##   
## During\_0801\_0830\_2011 During\_0831\_0900\_2011 During\_0901\_0930\_2011  
## Min. : 0.00 Min. : 0.0 Min. : 0.0   
## 1st Qu.: 18.00 1st Qu.: 22.0 1st Qu.: 7.0   
## Median : 27.00 Median : 32.0 Median : 11.0   
## Mean : 30.33 Mean : 35.5 Mean : 14.2   
## 3rd Qu.: 39.00 3rd Qu.: 45.0 3rd Qu.: 19.0   
## Max. :204.00 Max. :246.0 Max. :125.0   
##   
## After\_0930\_2011 Not\_Stated\_2011 Total\_Time Under\_15\_mins\_2011  
## Min. : 0.00 Min. : 0.000 Min. : 2.0 Min. : 0.00   
## 1st Qu.: 7.00 1st Qu.: 3.000 1st Qu.:106.0 1st Qu.: 32.00   
## Median : 10.00 Median : 5.000 Median :140.0 Median : 46.00   
## Mean : 11.68 Mean : 5.659 Mean :146.3 Mean : 50.07   
## 3rd Qu.: 15.00 3rd Qu.: 7.000 3rd Qu.:179.0 3rd Qu.: 63.00   
## Max. :178.00 Max. :531.000 Max. :826.0 Max. :4010.00   
##   
## Quarter\_To\_Under\_Half\_Hour\_2011  
## Min. : 0.00   
## 1st Qu.: 27.00   
## Median : 41.00   
## Mean : 43.96   
## 3rd Qu.: 57.00   
## Max. :311.00   
##   
## Half\_Hour\_To\_Under\_Three\_Quarter\_Hours\_2011  
## Min. : 0.00   
## 1st Qu.: 13.00   
## Median : 22.00   
## Mean : 25.05   
## 3rd Qu.: 34.00   
## Max. :217.00   
##   
## Three\_Quarter\_Hours\_To\_Under\_One\_Hour\_2011  
## Min. : 0.00   
## 1st Qu.: 3.00   
## Median : 7.00   
## Mean : 8.27   
## 3rd Qu.:12.00   
## Max. :51.00   
##   
## One\_Hour\_To\_Under\_One\_Hour\_Thirty\_Mins\_2011  
## Min. : 0.000   
## 1st Qu.: 3.000   
## Median : 6.000   
## Mean : 7.602   
## 3rd Qu.:10.000   
## Max. :58.000   
##   
## One\_And\_Half\_Hours\_And\_Over\_2011 Not\_Stated\_2011 Journey\_Total   
## Min. : 0.000 Min. : 0.000 Min. : 2.0   
## 1st Qu.: 1.000 1st Qu.: 5.000 1st Qu.:106.0   
## Median : 2.000 Median : 8.000 Median :140.0   
## Mean : 2.761 Mean : 8.775 Mean :146.3   
## 3rd Qu.: 4.000 3rd Qu.: 11.000 3rd Qu.:179.0   
## Max. :32.000 Max. :535.000 Max. :826.0   
##

boxplot(countydata[10:40])$out



## [1] 148 75 259 264 99 78 84 72 75 83 77 79 85  
## [14] 88 79 78 98 87 92 130 151 98 79 124 76 75  
## [27] 89 74 107 96 77 109 111 135 96 75 76 169 117  
## [40] 90 90 98 117 119 119 214 105 112 153 137 88 95  
## [53] 92 88 103 93 75 75 92 98 105 81 93 74 77  
## [66] 74 74 75 89 72 84 136 81 78 94 86 74 141  
## [79] 96 73 125 99 79 74 145 101 95 103 87 145 123  
## [92] 104 77 94 83 98 73 82 113 107 92 87 103 76  
## [105] 76 82 104 116 76 82 76 98 81 78 75 79 75  
## [118] 138 78 95 89 79 125 95 77 74 98 93 160 105  
## [131] 82 275 117 85 93 74 73 96 78 281 81 88 74  
## [144] 92 199 247 127 103 116 110 102 99 220 89 98 119  
## [157] 91 212 126 161 151 80 80 82 150 83 76 77 79  
## [170] 82 129 99 100 150 138 90 72 94 106 84 96 80  
## [183] 74 80 75 72 109 87 102 118 82 98 82 125 100  
## [196] 90 82 115 82 78 78 80 111 73 72 73 103 78  
## [209] 111 124 151 92 103 79 79 94 75 74 76 102 161  
## [222] 80 78 88 115 118 126 134 109 76 118 118 76 97  
## [235] 73 75 90 77 82 142 80 117 98 92 106 114 136  
## [248] 79 98 79 93 134 81 80 75 110 80 86 85 76  
## [261] 72 76 77 93 73 98 88 79 80 101 94 72 142  
## [274] 80 77 80 87 80 115 77 72 93 97 76 159 102  
## [287] 81 73 73 107 80 86 85 96 95 77 149 323 138  
## [300] 85 95 104 86 77 77 119 80 111 87 78 77 108  
## [313] 237 88 74 76 82 130 85 73 79 73 89 94 74  
## [326] 73 79 120 93 80 76 79 103 74 94 98 89 101  
## [339] 103 99 85 77 85 79 76 111 105 104 80 126 77  
## [352] 107 102 87 114 86 80 75 72 87 74 75 84 74  
## [365] 188 124 88 88 73 90 81 73 83 78 76 78 199  
## [378] 100 84 94 87 79 89 126 75 75 100 76 102 104  
## [391] 108 81 95 77 99 82 74 89 113 73 94 79 91  
## [404] 102 74 81 115 101 79 76 95 85 79 149 126 72  
## [417] 84 84 94 74 88 121 113 106 130 155 121 99 93  
## [430] 79 118 79 90 127 86 136 83 77 96 77 88 149  
## [443] 103 246 78 76 137 75 75 109 81 79 72 74 106  
## [456] 110 193 77 72 97 73 80 80 80 78 73 93 92  
## [469] 106 85 76 73 78 78 78 95 95 133 93 75 83  
## [482] 101 89 86 132 79 80 74 96 84 90 73 80 72  
## [495] 76 76 79 81 93 82 77 86 111 208 78 75 142  
## [508] 100 170 139 143 130 156 149 82 98 85 73 96 72  
## [521] 90 72 72 135 116 82 76 83 83 77 73 79 77  
## [534] 81 153 72 343 191 72 92 76 85 97 89 95 73  
## [547] 140 129 203 96 85 129 315 306 11 13 13 19 11  
## [560] 11 34 15 12 12 13 16 12 11 11 12 11 13  
## [573] 18 14 11 16 12 11 15 12 11 13 13 12 14  
## [586] 14 12 14 15 11 18 14 12 13 18 14 13 13  
## [599] 21 16 15 11 12 14 13 11 11 12 18 11 20  
## [612] 12 12 12 13 11 20 12 13 18 22 13 16 11  
## [625] 15 16 14 17 11 11 27 20 11 11 20 19 14  
## [638] 17 19 17 15 13 11 12 13 11 19 12 12 11  
## [651] 15 11 22 12 11 13 12 11 18 11 12 11 13  
## [664] 19 23 17 17 11 12 11 12 25 14 11 12 12  
## [677] 14 18 11 12 11 11 12 15 11 22 13 11 15  
## [690] 13 20 11 15 11 19 11 15 13 15 12 12 11  
## [703] 11 14 15 13 11 13 11 11 11 12 20 13 19  
## [716] 11 11 12 11 11 11 12 16 29 12 12 17 17  
## [729] 13 12 11 15 15 12 11 18 17 15 20 17 14  
## [742] 21 15 12 15 15 13 16 15 19 15 18 14 12  
## [755] 14 13 18 13 15 14 20 16 17 19 17 18 11  
## [768] 21 23 19 17 38 13 14 20 25 21 15 23 21  
## [781] 30 33 11 15 16 11 24 14 15 26 38 24 14  
## [794] 19 11 14 23 14 17 14 19 16 39 16 14 11  
## [807] 15 14 12 14 11 12 12 12 17 11 11 12 11  
## [820] 12 11 12 11 15 16 12 12 11 17 14 11 12  
## [833] 11 17 11 11 12 17 13 12 18 12 15 13 14  
## [846] 14 22 12 15 16 18 13 15 20 17 19 16 16  
## [859] 11 21 15 11 16 14 11 17 14 20 14 11 11  
## [872] 11 28 13 37 45 21 16 11 15 34 27 31 21  
## [885] 21 14 11 18 18 22 16 20 27 22 16 12 28  
## [898] 36 22 22 27 15 13 33 35 12 14 14 13 11  
## [911] 12 16 14 12 13 13 19 12 16 13 11 13 14  
## [924] 13 11 11 13 11 12 17 13 13 12 14 14 16  
## [937] 12 18 15 13 22 12 15 14 11 15 14 14 13  
## [950] 11 12 15 11 15 16 13 12 12 12 23 19 17  
## [963] 22 11 11 11 11 12 16 12 13 14 12 11 11  
## [976] 16 14 13 11 24 16 11 16 15 20 12 14 16  
## [989] 12 12 15 13 12 18 22 15 17 13 14 14 11  
## [1002] 11 11 12 13 11 11 13 12 13 12 11 11 17  
## [1015] 12 12 11 12 20 14 11 13 20 23 18 15 19  
## [1028] 21 22 19 13 14 14 12 11 11 11 19 12 11  
## [1041] 17 19 15 19 12 14 14 15 11 21 22 17 16  
## [1054] 30 27 11 15 12 13 19 13 18 37 11 11 24  
## [1067] 18 16 23 11 13 14 12 13 18 11 12 14 14  
## [1080] 15 18 25 17 12 24 15 11 16 16 12 11 15  
## [1093] 12 14 12 16 26 37 19 15 19 12 17 12 15  
## [1106] 13 13 16 11 13 11 19 12 13 15 20 11 12  
## [1119] 11 16 13 14 15 12 15 15 14 19 25 11 12  
## [1132] 36 12 14 16 17 14 12 17 15 12 15 15 12  
## [1145] 14 39 25 26 15 18 13 19 24 16 17 14 17  
## [1158] 16 13 11 13 20 17 11 13 14 15 11 11 13  
## [1171] 14 12 14 14 15 11 11 20 18 11 18 15 14  
## [1184] 14 13 13 12 22 11 15 12 11 11 15 11 16  
## [1197] 19 12 12 14 11 12 14 13 11 11 12 14 11  
## [1210] 11 13 16 13 13 11 12 13 15 12 13 15 19  
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## [18760] 311 382 308 301 356 333 317 426 292 357 342

which(countydata[10:40] %in% boxplot(countydata)$out)



## integer(0)

We find outliers through the use of boxplots. ##Outliers handling For finding the outliers using boxplot and removing the outliers

countydata1 = subset(countydata,  
 On\_Foot\_2011 < 50 &  
 Bus\_Minibus\_Coach\_2011 < 40 &  
 Train\_Dart\_Luas\_2011 < 10 &  
 Motorcycle\_Scooter\_2011 < 10 &  
 Car\_Driver\_2011 < 150 &   
 Car\_Passenger\_2011 < 70 &   
 Other\_2011 < 25 &  
 Soft\_Modes\_Comb\_2011 < 60 &  
 Public\_Transport\_Comb\_2011 < 50 &  
 Private\_Transport\_Comb\_2011 < 170 &  
 Before\_0630\_2011 < 20 &   
 During\_0630\_0700\_2011 < 30 &   
 During\_0701\_0730\_2011 < 30 &  
 During\_0731\_8000\_2011 < 50 &  
 During\_0801\_0830\_2011 < 60 &   
 During\_0831\_0900\_2011 < 70 &   
 During\_0901\_0930\_2011 < 40 &  
 After\_0930\_2011 < 25 &  
 Not\_Stated\_2011 < 20 &   
 Under\_15\_mins\_2011 < 100 &  
 Quarter\_To\_Under\_Half\_Hour\_2011 < 100 &  
 Half\_Hour\_To\_Under\_Three\_Quarter\_Hours\_2011 < 100 &  
 Three\_Quarter\_Hours\_To\_Under\_One\_Hour\_2011 < 25 &  
 One\_Hour\_To\_Under\_One\_Hour\_Thirty\_Mins\_2011 < 20 &  
 One\_And\_Half\_Hours\_And\_Over\_2011 < 10 &  
 Not\_Stated\_2011 < 20)

#Creating Subset We do this to create a subset and assign it to countydata1

Let us look at the questions: ##Question1 Q1: What is the most popular mode of transport nationally?

Most\_Pop\_Transport\_Mode = function(par\_Data){  
 meanModes=list()  
 maxMeanModes = 0  
 popularMode = ""  
 i=10  
 for(a in 1:9){  
 meanModes[a] = mean(par\_Data[,i])  
 if(maxMeanModes < mean(par\_Data[,i])){  
 maxMeanModes = meanModes[a]  
 popularMode = colnames(par\_Data[i])  
 }  
 i = i+1  
 }  
 Response = list(popularMode,maxMeanModes)  
 return(Response)  
}  
  
  
National\_Pop\_Mode = Most\_Pop\_Transport\_Mode(countydata)  
print(str\_c('The most popular mode of trnsport nationally is ', National\_Pop\_Mode[1],' with a maximum mean of ', unlist(National\_Pop\_Mode[2])))

## [1] "The most popular mode of trnsport nationally is Car\_Driver\_2011 with a maximum mean of 60.9804717083198"

##Question2 Q2: How does the above answer compare to the most popular mode of transport in your assigned county?

valid\_column\_names <- make.names(names=names(countydata),unique=TRUE, allow\_ = TRUE)  
names(countydata) <- valid\_column\_names  
Corkcountydata <- filter(countydata,countydata$County == 'Cork County')  
Cork\_Pop\_Mode = Most\_Pop\_Transport\_Mode(Corkcountydata)  
  
#Checking the credibility of the above code  
Transport\_Pop\_mean <- list() #creating one list  
i <- 10  
for (x in 10:18) {  
 Transport\_Pop\_mean[x] = mean(Corkcountydata[, i])  
 i = i + 1  
} #for loop till it finds the mean of the data  
max(unlist(Transport\_Pop\_mean))

## [1] 71.64364

for (x in 10:18) {  
 if (mean(Corkcountydata[,x]) == max(unlist(Transport\_Pop\_mean))) {  
 print(str\_c('most popular transport is ', colnames(Corkcountydata[x])))  
 }  
}

## [1] "most popular transport is Car\_Driver\_2011"

print(str\_c('The most popular mode of transport in Cork is ', Cork\_Pop\_Mode[1], ' with a maximum mean of ', unlist(Cork\_Pop\_Mode[2])))

## [1] "The most popular mode of transport in Cork is Car\_Driver\_2011 with a maximum mean of 71.6436363636364"

cat("Looking at the mean of modes of both nationality and county clare the Mode Car driver and mean value are same.\n So Clare county reflects the same mode popular as the whoel nation")

## Looking at the mean of modes of both nationality and county clare the Mode Car driver and mean value are same.  
## So Clare county reflects the same mode popular as the whoel nation

##Question3

Q3: What differences are evident between the choice of transportation in the cities compared to the other regions?

region1 <- countydata %>% group\_by(County) %>% summarise\_all(funs(mean))

## Warning: funs() is soft deprecated as of dplyr 0.8.0  
## Please use a list of either functions or lambdas:   
##   
## # Simple named list:   
## list(mean = mean, median = median)  
##   
## # Auto named with `tibble::lst()`:   
## tibble::lst(mean, median)  
##   
## # Using lambdas  
## list(~ mean(., trim = .2), ~ median(., na.rm = TRUE))  
## This warning is displayed once per session.

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## logical: returning NA

region2 <-  
 countydata %>% group\_by(Planning.Region) %>% summarise\_all(funs(mean))

## Warning in mean.default(SA\_NAME): argument is not numeric or logical:  
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## Warning in mean.default(Electoral.Division.CSO.Code): argument is not  
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##Question3 We use a different approach below

Most\_Pop\_Compare\_Mode = function(par\_Data){ #A function to compare the most popular mode of transport  
 meanCompareMode = list()  
 maxMeanCompareMode = 0  
 popularCompareMode = ""  
   
 i = 10  
 for (x in 1:9) {  
 meanCompareMode[x] = colMeans(par\_Data[,i], na.rm = TRUE)  
 if(maxMeanCompareMode < colMeans(par\_Data[,i],na.rm = TRUE)){  
 maxMeanCompareMode = meanCompareMode[x]  
 popularCompareMode = colnames(par\_Data[i])  
 }  
 i = i+1  
 }  
 response = list(popularCompareMode,maxMeanCompareMode)  
 return(response)  
}  
  
plan\_Region\_Data = countydata %>%   
 group\_by(Planning.Region) %>%   
 summarise\_all(funs(mean))

## Warning in mean.default(SA\_NAME): argument is not numeric or logical:  
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County\_data = countydata %>% group\_by(County) %>% summarise\_all(funs(mean))

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## logical: returning NA

region\_Pop\_Mode = Most\_Pop\_Compare\_Mode(plan\_Region\_Data)  
county\_Pop\_Mode = Most\_Pop\_Compare\_Mode(County\_data)  
  
print(region\_Pop\_Mode[1])

## [[1]]  
## [1] "Car\_Driver\_2011"

print(region\_Pop\_Mode[2])

## [[1]]  
## [[1]][[1]]  
## [1] 50.10954

print(county\_Pop\_Mode[1])

## [[1]]  
## [1] "Car\_Driver\_2011"

print(county\_Pop\_Mode[2])

## [[1]]  
## [[1]][[1]]  
## [1] 61.05183

mean(plan\_Region\_Data[,10])

## Warning in mean.default(plan\_Region\_Data[, 10]): argument is not numeric or  
## logical: returning NA

## [1] NA

#countydata %>% aggregate(x = countydata$On\_Foot\_2011,y = countydata$Bicycle\_2011,  
 # by = list(countydata$County),  
 # FUN = mean) #Error using the aggregate function

#Question4

Q4:What proportion of the commuters leave home outside of the 8-9am rush hour?

Totaltime <- sum(countydata$Total\_Time)# Calculating total time  
print(Totaltime)#printing total time

## [1] 2704107

rush\_hour\_time <- Totaltime - sum(sum(countydata[,"During\_0801\_0830\_2011"]), sum(countydata[,"During\_0831\_0900\_2011"])) #Calculating the rush hour time of the required enquiry  
  
print(rush\_hour\_time)

## [1] 1487103

Response = rush\_hour\_time/Totaltime #Calculating the proportion  
print(str\_c("Proportion of commuters leaving outside 8-9am is ", round(Response,2)))

## [1] "Proportion of commuters leaving outside 8-9am is 0.55"

#Question5

Q5:Are commuters in your assigned county likely to travel for longer than 45 minutes each morning?

longerthan45Duration = sum(sum(Corkcountydata$Three\_Quarter\_Hours\_To\_Under\_One\_Hour\_2011),  
 sum(Corkcountydata$One\_Hour\_To\_Under\_One\_Hour\_Thirty\_Mins\_2011),  
 sum(Corkcountydata$One\_And\_Half\_Hours\_And\_Over\_2011))  
Apartfrom\_45Duration = sum(Corkcountydata$Journey\_Total)-longerthan45Duration  
if(longerthan45Duration > Apartfrom\_45Duration) {  
 print("In Cork county, the commuters are likely to travel for longer than 45 minutes each morning")  
}else{  
 print("In Cork county, the commuters are likely to travel for shorter than 45 minutes each morning")  
}

## [1] "In Cork county, the commuters are likely to travel for shorter than 45 minutes each morning"

#Question6

Q6: How does the above answer compare to other counties in the same NUTS III region?

#For this pupose, we obtain the NUTS III region for the assigned county: Cork  
NUTSIIIReg <- filter(countydata, countydata$NUTS\_III == 'Cork')  
NUTSIIIReg

## [1] Datacode   
## [2] SA\_NAME   
## [3] GEOGID   
## [4] Electoral.Division.CSO.Code   
## [5] Electoral.Division.Name   
## [6] County   
## [7] NUTS\_III   
## [8] NUTS\_II   
## [9] Planning.Region   
## [10] On\_Foot\_2011   
## [11] Bicycle\_2011   
## [12] Bus\_Minibus\_Coach\_2011   
## [13] Train\_Dart\_Luas\_2011   
## [14] Motorcycle\_Scooter\_2011   
## [15] Car\_Driver\_2011   
## [16] Car\_Passenger\_2011   
## [17] Van\_2011   
## [18] Other\_2011   
## [19] Soft\_Modes\_Comb\_2011   
## [20] Public\_Transport\_Comb\_2011   
## [21] Private\_Transport\_Comb\_2011   
## [22] Mean\_Total   
## [23] Before\_0630\_2011   
## [24] During\_0630\_0700\_2011   
## [25] During\_0701\_0730\_2011   
## [26] During\_0731\_8000\_2011   
## [27] During\_0801\_0830\_2011   
## [28] During\_0831\_0900\_2011   
## [29] During\_0901\_0930\_2011   
## [30] After\_0930\_2011   
## [31] Not\_Stated\_2011   
## [32] Total\_Time   
## [33] Under\_15\_mins\_2011   
## [34] Quarter\_To\_Under\_Half\_Hour\_2011   
## [35] Half\_Hour\_To\_Under\_Three\_Quarter\_Hours\_2011  
## [36] Three\_Quarter\_Hours\_To\_Under\_One\_Hour\_2011   
## [37] One\_Hour\_To\_Under\_One\_Hour\_Thirty\_Mins\_2011  
## [38] One\_And\_Half\_Hours\_And\_Over\_2011   
## [39] Not\_Stated\_2011.1   
## [40] Journey\_Total   
## <0 rows> (or 0-length row.names)

#View(NUTSIIIReg)  
colnames(NUTSIIIReg)

## [1] "Datacode"   
## [2] "SA\_NAME"   
## [3] "GEOGID"   
## [4] "Electoral.Division.CSO.Code"   
## [5] "Electoral.Division.Name"   
## [6] "County"   
## [7] "NUTS\_III"   
## [8] "NUTS\_II"   
## [9] "Planning.Region"   
## [10] "On\_Foot\_2011"   
## [11] "Bicycle\_2011"   
## [12] "Bus\_Minibus\_Coach\_2011"   
## [13] "Train\_Dart\_Luas\_2011"   
## [14] "Motorcycle\_Scooter\_2011"   
## [15] "Car\_Driver\_2011"   
## [16] "Car\_Passenger\_2011"   
## [17] "Van\_2011"   
## [18] "Other\_2011"   
## [19] "Soft\_Modes\_Comb\_2011"   
## [20] "Public\_Transport\_Comb\_2011"   
## [21] "Private\_Transport\_Comb\_2011"   
## [22] "Mean\_Total"   
## [23] "Before\_0630\_2011"   
## [24] "During\_0630\_0700\_2011"   
## [25] "During\_0701\_0730\_2011"   
## [26] "During\_0731\_8000\_2011"   
## [27] "During\_0801\_0830\_2011"   
## [28] "During\_0831\_0900\_2011"   
## [29] "During\_0901\_0930\_2011"   
## [30] "After\_0930\_2011"   
## [31] "Not\_Stated\_2011"   
## [32] "Total\_Time"   
## [33] "Under\_15\_mins\_2011"   
## [34] "Quarter\_To\_Under\_Half\_Hour\_2011"   
## [35] "Half\_Hour\_To\_Under\_Three\_Quarter\_Hours\_2011"  
## [36] "Three\_Quarter\_Hours\_To\_Under\_One\_Hour\_2011"   
## [37] "One\_Hour\_To\_Under\_One\_Hour\_Thirty\_Mins\_2011"  
## [38] "One\_And\_Half\_Hours\_And\_Over\_2011"   
## [39] "Not\_Stated\_2011.1"   
## [40] "Journey\_Total"

group\_by(NUTSIIIReg)

## # A tibble: 0 x 40  
## # ... with 40 variables: Datacode <int>, SA\_NAME <fct>, GEOGID <fct>,  
## # Electoral.Division.CSO.Code <fct>, Electoral.Division.Name <fct>,  
## # County <fct>, NUTS\_III <fct>, NUTS\_II <fct>, Planning.Region <fct>,  
## # On\_Foot\_2011 <int>, Bicycle\_2011 <int>, Bus\_Minibus\_Coach\_2011 <int>,  
## # Train\_Dart\_Luas\_2011 <int>, Motorcycle\_Scooter\_2011 <int>,  
## # Car\_Driver\_2011 <int>, Car\_Passenger\_2011 <int>, Van\_2011 <int>,  
## # Other\_2011 <int>, Soft\_Modes\_Comb\_2011 <int>,  
## # Public\_Transport\_Comb\_2011 <int>, Private\_Transport\_Comb\_2011 <int>,  
## # Mean\_Total <int>, Before\_0630\_2011 <int>, During\_0630\_0700\_2011 <int>,  
## # During\_0701\_0730\_2011 <int>, During\_0731\_8000\_2011 <int>,  
## # During\_0801\_0830\_2011 <int>, During\_0831\_0900\_2011 <int>,  
## # During\_0901\_0930\_2011 <int>, After\_0930\_2011 <int>,  
## # Not\_Stated\_2011 <int>, Total\_Time <int>, Under\_15\_mins\_2011 <int>,  
## # Quarter\_To\_Under\_Half\_Hour\_2011 <int>,  
## # Half\_Hour\_To\_Under\_Three\_Quarter\_Hours\_2011 <int>,  
## # Three\_Quarter\_Hours\_To\_Under\_One\_Hour\_2011 <int>,  
## # One\_Hour\_To\_Under\_One\_Hour\_Thirty\_Mins\_2011 <int>,  
## # One\_And\_Half\_Hours\_And\_Over\_2011 <int>, Not\_Stated\_2011.1 <int>,  
## # Journey\_Total <int>

dist\_coun <- NUTSIIIReg %>% distinct(County)  
dist\_coun <- dist\_coun$County  
dist\_coun

## factor(0)  
## 33 Levels: Carlow Cavan Clare Cork City Cork County ... Wicklow

dist\_coun[x]

## [1] <NA>  
## 33 Levels: Carlow Cavan Clare Cork City Cork County ... Wicklow

for (x in 2:4) {  
 DC <- countydata %>% filter(County == dist\_coun[x])  
 Tottime = sum(sum(DC$Three\_Quarter\_Hours\_To\_Under\_One\_Hour\_2011),  
 sum(DC$One\_Hour\_To\_Under\_One\_Hour\_Thirty\_Mins\_2011),  
 sum(DC$One\_And\_Half\_Hours\_And\_Over\_2011))  
   
 Jour\_Tot <- sum(DC$Journey\_Total)  
 difference1 = Jour\_Tot - Tottime  
 print(difference1)  
   
 if (difference1 > Tottime) {  
 print(str\_c(  
 'For County ',  
 dist\_coun[x],  
 'Final journey time is lesser than 45 minutes'  
 ))  
 } else{  
 print(str\_c(  
 'For County ',  
 dist\_coun[x],  
 'Final journey time longer than 45 minutes'  
 ))  
 }  
}

## [1] 0  
## [1] NA  
## [1] 0  
## [1] NA  
## [1] 0  
## [1] NA

print(Totaltime)

## [1] 2704107

##Different Approach for question 6

#Trying to solve the same using a different approach   
NUTSIIIReg = Corkcountydata$NUTS\_III[1]  
NUTSIIIReg

## [1] South-West  
## 8 Levels: Border Dublin Mid-East Mid-West Midlands ... West

NUTSIIIRegCounties = countydata %>% filter(NUTS\_III == NUTSIIIReg) %>% distinct(County)  
NUTSIIIRegCounties = NUTSIIIRegCounties$County  
NUTSIIIRegCounties[2]

## [1] Cork City  
## 33 Levels: Carlow Cavan Clare Cork City Cork County ... Wicklow

for(x in 2:4){  
 county\_Data = countydata %>% filter(County == NUTSIIIRegCounties[x])  
 longerthan45Duration = sum(sum(county\_Data$Three\_Quarter\_Hours\_To\_Under\_One\_Hour\_2011),  
 sum(county\_Data$One\_Hour\_To\_Under\_One\_Hour\_Thirty\_Mins\_2011),  
 sum(county\_Data$One\_And\_Half\_Hours\_And\_Over\_2011))  
 print(longerthan45Duration)  
 Apartfrom\_45Duration = sum(county\_Data$Journey\_Total)-longerthan45Duration  
 print(Apartfrom\_45Duration)  
 if(longerthan45Duration > Apartfrom\_45Duration) {  
 print(str\_c("In ", NUTSIIIRegCounties[x]," county commuters are likely to travel for longer than 45 minutes every morning"))  
 }else{  
 print(str\_c("In ", NUTSIIIRegCounties[x]," county commuters are likely to travel for shorter than 45 minutes every morning"))  
 }  
}

## [1] 2924  
## [1] 64140  
## [1] "In Cork City county commuters are likely to travel for shorter than 45 minutes every morning"  
## [1] 6118  
## [1] 74487  
## [1] "In Kerry county commuters are likely to travel for shorter than 45 minutes every morning"  
## [1] 0  
## [1] 0  
## [1] NA

##Question7 Q7: Which of the five counties have residents who experience the longest commute times?

CompleteCountyData <- countydata %>% group\_by(County) %>% summarise(sum(One\_And\_Half\_Hours\_And\_Over\_2011))  
#CompleteCountyData <- CompleteCountyData[order('sum(One\_And\_Half\_Hours\_And\_Over\_2011)')]  
  
top5 = sort(CompleteCountyData$'sum(One\_And\_Half\_Hours\_And\_Over\_2011)',decreasing = TRUE)  
for(a in 1:33){  
 for (b in 1:5) {  
 if(CompleteCountyData$'sum(One\_And\_Half\_Hours\_And\_Over\_2011)'[a] == top5[b]){  
 factor(CompleteCountyData$County)  
 print(CompleteCountyData$County[a])  
 }  
 }  
}

## [1] Cork County  
## 33 Levels: Carlow Cavan Clare Cork City Cork County ... Wicklow  
## [1] Dublin City  
## 33 Levels: Carlow Cavan Clare Cork City Cork County ... Wicklow  
## [1] Fingal  
## 33 Levels: Carlow Cavan Clare Cork City Cork County ... Wicklow  
## [1] Kildare  
## 33 Levels: Carlow Cavan Clare Cork City Cork County ... Wicklow  
## [1] Meath  
## 33 Levels: Carlow Cavan Clare Cork City Cork County ... Wicklow

We group by county Cork and summarise the sum of the elements of the attribute One\_and Half\_Hours\_And\_Over\_2011. We sort the subset in decreasing order and then compares the values of the columns of the previous variable. We factor it based on the County column of the subset.

##Question8 Q8:What proportion of cars used in the morning commute contain only one person?

carno1 <- sum(countydata$Car\_Passenger\_2011)#Adding all the data in the car passesnger and storing it in carno1  
carno1

## [1] 508286

carno2 <- sum(countydata$Car\_Driver\_2011)#Adding all the data in the car driver and storing it in carno2  
carno2

## [1] 1127285

Total\_Car\_Users = countydata %>% transmute(countydata$Car\_Driver\_2011 + countydata$Car\_Passenger\_2011)# Calculating the total for passenger and driver and storing it in the variable  
colnames(Total\_Car\_Users)[1] = "TotalCarUsers" #Assigning the name of the column  
  
sing\_Car\_User <- sum(nrow(subset(countydata,countydata$Car\_Passenger\_2011 == 1)),nrow(subset(countydata, countydata$Car\_Driver\_2011== 1)))  
  
sing\_Car\_User\_Proportion <- sing\_Car\_User/sum(Total\_Car\_Users) #Calculating the proportion  
  
print(  
 str\_c(  
 sing\_Car\_User\_Proportion,  
 " is the proportion of cars used in the morning commute, containing only one person"  
 )  
)

## [1] "0.000150406188419824 is the proportion of cars used in the morning commute, containing only one person"

We add all the data values for travel as passenger column and assigns it to carno1. We do the similar for travel as a driver and assigns it to carno2. We calculate the total car users and then calculate singe car users. We then ultimately find the single car user proportion from the population.

##Question10 Q10: Which Electoral Division within each Planning Region do you propose should be prioritised for investment in public transportation?

Dist\_ED <- countydata %>% distinct(Electoral.Division.Name)# for distinct Electoral Division Name attribute  
Dist\_ED # Printing to check

## Electoral.Division.Name  
## 1 011 Agha  
## 2 012 Ballinacarrig  
## 3 013 Ballintemple  
## 4 014 Ballon  
## 5 015 Ballyellin  
## 6 016 Ballymoon  
## 7 049 Ballymurphy  
## 8 017 Borris  
## 9 018 Burton Hall  
## 10 019 Carlow Rural  
## 11 001 Carlow Urban  
## 12 020 Clogrenan  
## 13 021 Clonegall  
## 14 003 Clonmore  
## 15 050 Coonogue  
## 16 022 Corries  
## 17 023 Cranemore  
## 18 024 Fennagh  
## 19 025 Garryhill  
## 20 051 Glynn  
## 21 026 Grangeford  
## 22 004 Hacketstown  
## 23 005 Haroldstown  
## 24 027 Johnstown  
## 25 028 Kellistown  
## 26 029 Kilbride  
## 27 030 Killedmond  
## 28 031 Killerrig  
## 29 006 Kineagh  
## 30 052 Kyle  
## 31 032 Leighlinbridge  
## 32 053 Marley  
## 33 033 Muinebeag (Bagenalstown) Rural  
## 34 034 Muinebeag (Bagenalstown) Urban  
## 35 035 Myshall  
## 36 036 Nurney  
## 37 037 Oldleighlin  
## 38 007 Rahill  
## 39 038 Rathanna  
## 40 040 Rathrush  
## 41 008 Rathvilly  
## 42 041 Ridge  
## 43 042 Shangarry  
## 44 043 Sliguff  
## 45 044 Tankardstown  
## 46 045 Templepeter  
## 47 009 Tiknock  
## 48 054 Tinnahinch  
## 49 047 Tullow Rural  
## 50 048 Tullow Urban  
## 51 046 Tullowbeg  
## 52 010 Williamstown  
## 53 002 Graigue Urban  
## 54 035 Ardue  
## 55 036 Arvagh  
## 56 037 Ashfield  
## 57 002 Bailieborough  
## 58 038 Ballintemple  
## 59 015 Ballyconnell  
## 60 039 Ballyhaise  
## 61 029 Ballyjamesduff  
## 62 040 Ballymachugh  
## 63 016 Ballymagauran  
## 64 017 Bawnboy  
## 65 041 Bellananagh  
## 66 042 Belturbet Urban  
## 67 027/018 Templeport/Benbrack  
## 68 019 Bilberry  
## 69 043 Bruce Hall  
## 70 044 Butler's Bridge  
## 71 045 Canningstown  
## 72 020 Carn  
## 73 003 Carnagarve  
## 74 046 Carrafin  
## 75 030 Castlerahan  
## 76 047 Castlesaunderson  
## 77 048 Cavan Rural  
## 78 001 Cavan Urban  
## 79 049 Clonervy  
## 80 050 Cootehill Rural  
## 81 051 Cootehill Urban  
## 82 052 Corr  
## 83 053 Corraneary  
## 84 004 Crossbane  
## 85 054 Crossdoney  
## 86 055 Crosskeys  
## 87 056 Cuttragh  
## 88 057 Denn  
## 89 058 Derrin  
## 90 081 Derrylahan  
## 91 021 Diamond  
## 92 022 Doogary  
## 93 083 Dowra  
## 94 005 Drumanespick  
## 95 059 Drumcarban  
## 96 060 Drumcarn  
## 97 089 Drumlumman  
## 98 061 Drung  
## 99 006 Enniskeen  
## 100 085 Eskey  
## 101 062 Graddum  
## 102 063 Grilly  
## 103 031 Kilbride  
## 104 090 Kilcogy  
## 105 064 Kilconny  
## 106 091 Kilgolagh  
## 107 065 Kill  
## 108 066 Killashandra  
## 109 007 Killinkere  
## 110 067 Killykeen  
## 111 068 Kilnaleck  
## 112 023 Kinawley  
## 113 008 Kingscourt  
## 114 069 Knappagh  
## 115 070 Larah North  
## 116 071 Larah South  
## 117 009 Lisagoan  
## 118 024 Lissanover  
## 119 092 Loughdawan  
## 120 032 Lurgan  
## 121 072 Milltown  
## 122 073 Moynehall  
## 123 010 Mullagh  
## 124 033 Munterconnaught  
## 125 074 Rakenny  
## 126 075 Redhill  
## 127 093 Scrabby  
## 128 011 Shercock  
## 129 012 Skeagh  
## 130 076 Springfield  
## 131 077 Stradone  
## 132 026 Swanlinbar  
## 133 013 Taghart  
## 134 014 Termon  
## 135 088 Tuam  
## 136 078 Tullyvin East  
## 137 079 Tullyvin West  
## 138 034 Virginia  
## 139 080 Waterloo  
## 140 006 Abbey  
## 141 046 Annagh  
## 142 120 Ayle  
## 143 047 Ballagh  
## 144 138 Ballyblood  
## 145 105 Ballycannan  
## 146 048 Ballyea  
## 147 106 Ballyglass  
## 148 066 Ballynacally  
## 149 139 Ballynahinch  
## 150 049 Ballysteen  
## 151 050 Ballyvaskin  
## 152 121 Boherglass  
## 153 018 Boston  
## 154 140 Caher  
## 155 122 Caherhurley  
## 156 077 Cahermurphy  
## 157 124 Cappaghabaun  
## 158 107 Cappavilla  
## 159 007 Carran  
## 160 125 Carrowbaun  
## 161 108 Castlecrine  
## 162 014/008 Noughaval/Castletown  
## 163 026 Clareabbey  
## 164 027 Clenagh  
## 165 051 Cloghaun  
## 166 109 Cloghera  
## 167 067 Clondagad  
## 168 078 Cloonadrum  
## 169 052 Cloonanaha  
## 170 079 Clooncoorha  
## 171 053 Clooney  
## 172 141 Clooney  
## 173 110 Cloontra  
## 174 126 Cloonusker  
## 175 068 Coolmeen  
## 176 127 Coolreagh  
## 177 080 Cooraclare  
## 178 019 Corrofin  
## 179 111 Cratloe  
## 180 081 Creegh  
## 181 028 Crusheen  
## 182 142 Dangan  
## 183 009 Derreen  
## 184 129 Derrynagittagh  
## 185 082 Doonbeg  
## 186 029 Doora  
## 187 010 Drumcreehy  
## 188 083 Drumellihy  
## 189 030 Drumline  
## 190 130 Drummaan  
## 191 031 Dysert  
## 192 084 Einagh  
## 193 032 Ennis Rural  
## 194 002 Ennis No. 2 Urban  
## 195 054 Ennistimon  
## 196 112 Fahymore  
## 197 131 Feakle  
## 198 055 Formoyle  
## 199 033 Furroor  
## 200 143 Glendree  
## 201 085 Glenmore  
## 202 086 Kilballyowen  
## 203 069 Kilchreest  
## 204 034 Kilcloher  
## 205 087 Kilfearagh  
## 206 056 Kilfenora  
## 207 070 Kilfiddane  
## 208 088 Kilkee  
## 209 144 Kilkishen  
## 210 071 Killadysert  
## 211 134 Killaloe  
## 212 145 Killanena  
## 213 035 Killanniv  
## 214 089 Killard  
## 215 057 Killaspuglonane  
## 216 113 Killeely  
## 217 058 Killilagh  
## 218 090 Killimer  
## 219 021 Killinaboy  
## 220 072 Killofin  
## 221 114 Killokennedy  
## 222 036 Killone  
## 223 146 Killuran  
## 224 091 Kilmihil  
## 225 073 Kilmurry  
## 226 092 Kilmurry  
## 227 037 Kilnamona  
## 228 038 Kilraghtis  
## 229 093 Kilrush Rural  
## 230 005 Kilrush Urban  
## 231 115 Kilseily  
## 232 059 Kilshanny  
## 233 147 Kiltannon  
## 234 116 Kiltenanlea  
## 235 022 Kiltoraght  
## 236 039 Kinturk  
## 237 094 Knock  
## 238 095 Knocknaboley  
## 239 096 Knocknagore  
## 240 148 Kyle  
## 241 117 Lackareagh  
## 242 060 Liscannor  
## 243 074 Liscasey  
## 244 012 Lisdoonvarna  
## 245 075 Lisheen  
## 246 149 Loughea  
## 247 061 Lurraga  
## 248 062 Magherareagh  
## 249 063 Milltown Malbay  
## 250 013 Mountelva  
## 251 118 Mountievers  
## 252 135 Mountshannon  
## 253 064 Moy  
## 254 098 Moyarta  
## 255 023 Muckanagh  
## 256 099 Mullagh  
## 257 150 Newgrove  
## 258 040 Newmarket  
## 259 119 O'Briensbridge  
## 260 136 Ogonnelloe  
## 261 015 Oughtmama  
## 262 100 Querrin  
## 263 151 Quin  
## 264 101 Rahona  
## 265 024 Rath  
## 266 016 Rathborney  
## 267 152 Rathclooney  
## 268 076 Rinealon  
## 269 153 Rossroe  
## 270 025 Ruan  
## 271 137 Scarriff  
## 272 041 Sixmilebridge  
## 273 065 Smithstown  
## 274 042 Spancelhill  
## 275 102 St. Martin's  
## 276 043 Templemaley  
## 277 154 Toberbreeda  
## 278 044 Tomfinlough  
## 279 155 Tulla  
## 280 103 Tullig  
## 281 104 Tullycreen  
## 282 045 Urlan  
## 283 001 Ennis No. 1 Urban  
## 284 003 Ennis No. 3 Urban  
## 285 004 Ennis No. 4 Urban  
## 286 054 Abbeymahon  
## 287 047 Adrigole  
## 288 286 Aghadown North  
## 289 287 Aghadown South  
## 290 121 Aghern  
## 291 197 Aghinagh  
## 292 198 Aglish  
## 293 032 Ahil  
## 294 145 Allow  
## 295 320 Ardagh  
## 296 055 Ardfield  
## 297 221 Ardskeagh  
## 298 056 Argideen  
## 299 105 Aultagh  
## 300 011 Ballinadee  
## 301 075 Ballincollig  
## 302 106 Ballingurteen  
## 303 178 Ballinspittle  
## 304 246 Ballintemple  
## 305 277 Ballyarthur  
## 306 309 Ballybane  
## 307 222 Ballyclogh  
## 308 247 Ballycottin  
## 309 310 Ballydehob  
## 310 179 Ballyfeard  
## 311 180 Ballyfoyle  
## 312 076 Ballygarvan  
## 313 012 Ballygroman  
## 314 146 Ballyhoolahan  
## 315 122 Ballyhooly  
## 316 181 Ballymackean  
## 317 182 Ballymartle  
## 318 013 Ballymodan  
## 319 107 Ballymoney  
## 320 014 Ballymurphy  
## 321 077 Ballynaglogh  
## 322 223 Ballynamona  
## 323 123 Ballynoe  
## 324 248 Ballyspillane  
## 325 147 Banteer  
## 326 034 Bantry Urban  
## 327 148 Barleyhill  
## 328 149 Barnacurra  
## 329 016 Baurleigh  
## 330 150 Bawncross  
## 331 108 Béal Átha an Ghaorthaidh  
## 332 199 Béal Átha an Ghaorthaidh  
## 333 109 Bealock  
## 334 048 Bear  
## 335 017 Bengour  
## 336 079 Blackpool  
## 337 080 Blarney  
## 338 151 Boherboy  
## 339 018 Boulteen  
## 340 288 Bredagh  
## 341 019 Brinny  
## 342 057 Butlerstown  
## 343 224 Buttevant  
## 344 289 Caheragh  
## 345 265 Caherbarnagh  
## 346 225 Caherduggan  
## 347 081 Caherlag  
## 348 058 Cahermore  
## 349 200 Ceann Droma  
## 350 201 Cannaway  
## 351 290 Cléire  
## 352 226 Carrig  
## 353 124 Carrig  
## 354 183 Carrigaline  
## 355 082 Carrigaline  
## 356 291 Carrigbaun  
## 357 110 Carrigboy  
## 358 083 Carrignavar  
## 359 084 Carrigrohane Beg  
## 360 249 Carrigtohill  
## 361 020 Cashel  
## 362 126 Castle Hyde  
## 363 125 Castlecooke  
## 364 152 Castlecor  
## 365 292 Castlehaven North  
## 366 293 Castlehaven South  
## 367 127 Castlelyons  
## 368 153 Castlemagner  
## 369 250 Castlemartyr  
## 370 128 Castletownroche  
## 371 111 Castletown  
## 372 059 Castleventry  
## 373 239 Rathluirc  
## 374 227 Churchtown  
## 375 202 Claonráth  
## 376 228 Clenor  
## 377 294 Cloghdonnell  
## 378 060 Clonakilty Rural  
## 379 001 Clonakilty Urban  
## 380 203 Clondrohid  
## 381 154 Clonfert East  
## 382 155 Clonfert West  
## 383 156 Clonmeen  
## 384 204 Clonmoyle  
## 385 251 Clonmult  
## 386 321 Clonpriest  
## 387 295 Cloonkeen  
## 388 252 Cloyne  
## 389 085 Cobh Rural  
## 390 002 Cobh Urban  
## 391 311 Coolagh  
## 392 157 Coolclogh  
## 393 061 Coolcraheen  
## 394 129 Coole  
## 395 184 Coolmain  
## 396 112 Coolmountain  
## 397 266 Coomlogane  
## 398 253 Corkbeg  
## 399 049 Coulagh  
## 400 062 Courtmacsherry  
## 401 267 Crinnaloo  
## 402 185 Cullen  
## 403 268 Cullen  
## 404 130 Curraglass  
## 405 050 Curryglass  
## 406 254 Dangan  
## 407 269 Derragh  
## 408 063 Derry  
## 409 205 Doire Fhínín  
## 410 278 Derryvillane  
## 411 229 Doneraile  
## 412 270 Doonasleen  
## 413 035 Douce  
## 414 086 Douglas  
## 415 296 Drinagh  
## 416 113 Drinagh  
## 417 087 Dripsey  
## 418 271 Drishane  
## 419 298 Dromdaleague South  
## 420 297 Dromdaleague North  
## 421 158 Dromina  
## 422 230 Dromore  
## 423 313 Dunbeacon  
## 424 088 Dunderrow  
## 425 255 Dungourney  
## 426 114 Dunmanway North  
## 427 115 Dunmanway South  
## 428 036 Durrus East  
## 429 037 Durrus West  
## 430 279 Farahy  
## 431 186 Farranbrien  
## 432 131 Fermoy Rural  
## 433 003 Fermoy Urban  
## 434 089 Firmount  
## 435 299 Garranes  
## 436 116 Garrown  
## 437 256 Garryvoe  
## 438 132 Glanworth East  
## 439 133 Glanworth West  
## 440 039 Glengarriff  
## 441 159 Glenlara  
## 442 090 Glenville  
## 443 315 Goleen  
## 444 160 Gortmore  
## 445 300 Gortnascreeny  
## 446 134 Gortnaskehy  
## 447 206 Gort na Tiobratan  
## 448 135 Gortroe  
## 449 207 Gowlane  
## 450 161 Greenane  
## 451 091 Greenfort  
## 452 208 Greenville  
## 453 257 Ightermurragh  
## 454 231 Imphrick  
## 455 258 Inch  
## 456 209 Inchigeelagh  
## 457 021 Inishannon  
## 458 092 Inishkenny  
## 459 162 Kanturk  
## 460 272 Keale  
## 461 040 Kealkill  
## 462 210 Kilberrihert  
## 463 022 Kilbonane  
## 464 163 Kilbrin  
## 465 023 Kilbrittain  
## 466 024 Kilbrogan  
## 467 041 Kilcaskan  
## 468 051 Kilcatherine  
## 469 316 Kilcoe  
## 470 136 Kilcor  
## 471 273 Kilcorney  
## 472 322 Kilcronat  
## 473 211 Kilcullen  
## 474 137 Kilcummer  
## 475 138 Kildinan  
## 476 280 Kildorrery  
## 477 301 Kilfaughnabeg  
## 478 281 Kilgullane  
## 479 064 Kilkerranmore  
## 480 052 Killaconenagh  
## 481 139 Killathy  
## 482 323 Killeagh  
## 483 093 Killeagh  
## 484 302 Killeenleagh  
## 485 324 Kilmacdonogh  
## 486 232 Kilmaclenine  
## 487 065 Kilmaloda East  
## 488 066 Kilmaloda West  
## 489 164 Kilmeen  
## 490 187 Kilmonoge  
## 491 067 Kilmoylerane  
## 492 068 Kilnagross  
## 493 053 Kilnamanagh  
## 494 212 Cill na Martra  
## 495 188 Kilpatrick  
## 496 282 Kilphelan  
## 497 233 Kilshannig  
## 498 140 Kilworth  
## 499 177 Williamstown  
## 500 117 Kinneigh  
## 501 189 Kinsale Rural  
## 502 004 Kinsale Urban  
## 503 094 Knockantota  
## 504 165 Knockatooan  
## 505 025 Knockavilly  
## 506 141 Knockmourne  
## 507 274 Knocknagree  
## 508 095 Knockraha  
## 509 026 Knockroe  
## 510 069 Knocks  
## 511 303 Knockskagh  
## 512 166 Knocktemple  
## 513 191 Laherne  
## 514 096 Lehenagh  
## 515 192 Leighmoney  
## 516 142 Leitrim  
## 517 234 Liscarroll  
## 518 193 Liscleary  
## 519 259 Lisgoold  
## 520 317 Lowertown  
## 521 213 Macloneigh  
## 522 005 Macroom Urban  
## 523 214 Magourney  
## 524 235 Mallow Rural  
## 525 007 Mallow South Urban  
## 526 118 Manch  
## 527 283 Marshalstown  
## 528 215 Mashanaglass  
## 529 097 Matehy  
## 530 042 Mealagh  
## 531 167 Meens  
## 532 260 Midleton Rural  
## 533 008 Midleton Urban  
## 534 119 Milane  
## 535 168 Milford  
## 536 236 Milltown  
## 537 284 Mitchelstown  
## 538 261 Mogeely  
## 539 237 Monanimy  
## 540 098 Monkstown Rural  
## 541 216 Mountrivers  
## 542 027 Moviddy  
## 543 028 Murragh  
## 544 304 Myross  
## 545 169 Nad  
## 546 170 Newmarket  
## 547 171 Newtown  
## 548 194 Nohaval  
## 549 100 Ovens  
## 550 099 Monkstown Urban  
## 551 217 Rahalisk  
## 552 238 Rahan  
## 553 070 Rathbarry  
## 554 029 Rathclarin  
## 555 275 Rathcool  
## 556 101 Rathcooney (part)  
## 557 143 Rathcormack  
## 558 102 Riverstown  
## 559 172 Roskeen  
## 560 173 Rosnalee  
## 561 071 Rosscarbery  
## 562 072 Rossmore  
## 563 262 Rostellan  
## 564 174 Rowls  
## 565 043 Scart  
## 566 044 Seefin  
## 567 240 Shanballymore  
## 568 045 Sheepshead  
## 569 305 Shreelane  
## 570 276 Skagh  
## 571 241 Skahanagh  
## 572 306 Skibbereen Rural  
## 573 009 Skibbereen Urban  
## 574 318 Skull  
## 575 218 An Sliabh Riabhach  
## 576 242 Springfort  
## 577 103 St. Mary's (part)  
## 578 243 Streamhill  
## 579 030 Teadies  
## 580 120 Teerelton  
## 581 263 Templebodan  
## 582 195 Templebreedy  
## 583 031 Templemartin  
## 584 244 Templemary  
## 585 196 Templemichael  
## 586 285 Templemolaga  
## 587 264 Templenacarriga  
## 588 073 Templeomalus  
## 589 074 Timoleague  
## 590 175 Tincoora  
## 591 307 Tullagh  
## 592 176 Tullylease  
## 593 219 Na hUláin  
## 594 245 Wallstown  
## 595 220 Warrenscourt  
## 596 144 Watergrasshill  
## 597 104 Whitechurch  
## 598 308 Woodfort  
## 599 325 Youghal Rural  
## 600 010 Youghal Urban  
## 601 006 Mallow North Urban  
## 602 015 Bandon  
## 603 001 Ballinlough A  
## 604 002 Ballinlough B  
## 605 003 Ballinlough C  
## 606 004 Ballyphehane A  
## 607 005 Ballyphehane B  
## 608 006 Bishopstown A  
## 609 007 Bishopstown B  
## 610 008 Bishopstown C  
## 611 010 Bishopstown E  
## 612 009 Bishopstown D  
## 613 011 Blackpool A  
## 614 012 Blackpool B  
## 615 013 Browningstown  
## 616 014 Centre A  
## 617 015 Centre B  
## 618 016 Churchfield  
## 619 017 City Hall A  
## 620 018 City Hall B  
## 621 019 Commons  
## 622 020 Evergreen  
## 623 021 Fair Hill A  
## 624 022 Fair Hill B  
## 625 023 Fair Hill C  
## 626 024 Farranferris A  
## 627 025 Farranferris B  
## 628 026 Farranferris C  
## 629 037 Gurranebraher D  
## 630 027 Gillabbey A  
## 631 028 Gillabbey B  
## 632 029 Gillabbey C  
## 633 030 Glasheen A  
## 634 031 Glasheen B  
## 635 032 Glasheen C  
## 636 033 Greenmount  
## 637 034 Gurranebraher A  
## 638 035 Gurranebraher B  
## 639 036 Gurranebraher C  
## 640 038 Gurranebraher E  
## 641 039 Knocknaheeny  
## 642 040 Knockrea A  
## 643 041 Knockrea B  
## 644 042 Mahon A  
## 645 043 Mahon B  
## 646 044 Mahon C  
## 647 045 Mardyke  
## 648 046 Mayfield  
## 649 047 Montenotte A  
## 650 048 Montenotte B  
## 651 049 Pouladuff A  
## 652 050 Pouladuff B  
## 653 054 Shanakiel  
## 654 055 Shandon A  
## 655 056 Shandon B  
## 656 057 South Gate A  
## 657 058 South Gate B  
## 658 051 St. Patrick's A  
## 659 052 St. Patrick's B  
## 660 053 St. Patrick's C  
## 661 059 Sundays Well A  
## 662 060 Sundays Well B  
## 663 061 The Glen A  
## 664 062 The Glen B  
## 665 063 The Lough  
## 666 064 Tivoli A  
## 667 065 Tivoli B  
## 668 066 Togher A  
## 669 067 Togher B  
## 670 068 Tramore A  
## 671 069 Tramore B  
## 672 070 Tramore C  
## 673 071 Turners Cross A  
## 674 072 Turners Cross B  
## 675 073 Turners Cross C  
## 676 074 Turners Cross D  
## 677 129 Allt na Péiste  
## 678 039 Anagaire  
## 679 040 Árainn Mhór  
## 680 041 Ard an Rátha  
## 681 066 Ardmalin  
## 682 029 Ards  
## 683 011 Ballintra  
## 684 004 Ballintra  
## 685 067 Ballyliffin  
## 686 110 Ballyarr  
## 687 096 Ballymacool  
## 688 006 Ballyshannon Urban  
## 689 005 Ballyshannon Rural  
## 690 012 An Bhinn Bhán  
## 691 068 Birdstown  
## 692 013 Bonnyglen  
## 693 069 Buncrana Rural  
## 694 001 Buncrana Urban  
## 695 007 Bundoran Rural  
## 696 002 Bundoran Urban  
## 697 070 Burt  
## 698 071 Carndonagh  
## 699 111 Carraig Airt  
## 700 008 Carrickboy  
## 701 112 An Cheathrú Chaol  
## 702 072 Carthage  
## 703 073 Castlecary  
## 704 130 Castlefinn  
## 705 074 Castleforward  
## 706 097 Castlewray  
## 707 009 Cavangarden  
## 708 098 Mín an Lábáin  
## 709 010 Cliff  
## 710 131 An Clochán  
## 711 132 Cloghard  
## 712 014 Clogher  
## 713 133 Clonleigh North  
## 714 134 Clonleigh South  
## 715 135 Convoy  
## 716 015 Corkermore  
## 717 099 Corravaddy  
## 718 113 Creamhghort  
## 719 030 Críoch na Sméar  
## 720 031 An Craoslach  
## 721 032 Na Croisbhealaí  
## 722 042 Cró Bheithe  
## 723 043 Cró Chaorach  
## 724 044 Crownarad  
## 725 075 Culdaff  
## 726 045 Dawros  
## 727 076 Desertegny  
## 728 016 Donegal  
## 729 046 An Dúchoraidh  
## 730 136 Dooish  
## 731 077 Dunaff  
## 732 034 Dún Fionnachaidh  
## 733 047 An Clochán Liath  
## 734 017 Dunkineely  
## 735 035 Dún Lúiche  
## 736 018 Eanymore  
## 737 100 Edenacarnan  
## 738 078 Fahan  
## 739 114 Fánaid Thuaidh  
## 740 115 Fánaid Thiar  
## 741 137 Feddyglass  
## 742 138 Figart  
## 743 048 Baile na Finne  
## 744 101 Gartán  
## 745 116 Glen  
## 746 117 Glenalla  
## 747 049 Gleann Cholm Cille  
## 748 080 Gleneely  
## 749 139 Gleneely  
## 750 050 Gleann Gheis  
## 751 051 Gleann Léithín  
## 752 079 Glennagannon  
## 753 052 Na Gleannta  
## 754 081 Glentogher  
## 755 140 Goland  
## 756 036 Gort an Choirce  
## 757 102 Gortnavern  
## 758 053 An Ghrafaidh  
## 759 082 Greencastle  
## 760 118 Grianfort  
## 761 019 Grousehall  
## 762 020 Haugh  
## 763 083 Illies  
## 764 084 Inch Island  
## 765 021 Inver  
## 766 055 Cill Charthaigh  
## 767 085 Kilderry  
## 768 086 Killea  
## 769 057 Killybegs  
## 770 119 Killygarvan  
## 771 141 Killygordon  
## 772 103 Killymasny  
## 773 120 Kilmacrenan  
## 774 104 Kincraigy  
## 775 142 Knock  
## 776 121 Cnoc Colbha  
## 777 022 Laghy  
## 778 058 An Leargaidh Mhór  
## 779 105 Letterkenny Rural  
## 780 003 Letterkenny Urban  
## 781 059 Leitir Mhic an Bhaird  
## 782 143 Lettermore  
## 783 023 Loch Iascaigh  
## 784 122 Loch Caol  
## 785 060 Maas  
## 786 106 Magheraboy  
## 787 037 Machaire Chlochair  
## 788 061 An Machaire  
## 789 087 Malin  
## 790 107 Manorcunningham  
## 791 038 Mín an Chladaigh  
## 792 144 Mín Charraigeach  
## 793 123 Millford  
## 794 088 Mintiaghs  
## 795 089 Moville  
## 796 063 Maol Mosóg  
## 797 090 Newtown Cunningham  
## 798 024 Pettigoe  
## 799 145 Raphoe  
## 800 124 Rathmelton  
## 801 125 Rathmullan  
## 802 091 Redcastle  
## 803 126 Ros Goill  
## 804 064 Inis Mhic an Doirn  
## 805 108 Suí Corr  
## 806 146 St. Johnstown  
## 807 092 Straid  
## 808 147 Stranorlar  
## 809 025 Tantallon  
## 810 026 Tawnawully  
## 811 027 Templecarn  
## 812 109 Templedouglas  
## 813 128 An Tearmann  
## 814 093 Three Trees  
## 815 065 Tieveskeelta  
## 816 148 Treantaghmucklagh  
## 817 028 Tullynaught  
## 818 094 Turmone  
## 819 149 Urney West  
## 820 095 Whitecastle  
## 821 178 Abbey East  
## 822 179 Abbey West  
## 823 002 Abbeygormacan  
## 824 163 Abbeyville  
## 825 180 Addergoole  
## 826 003 Ahascragh  
## 827 100 Aille  
## 828 135 Annagh  
## 829 040 Eanach Dhúin  
## 830 181 Annaghdown  
## 831 081 Ardamullivan  
## 832 082 Ardrahan  
## 833 101 Athenry  
## 834 041 Aughrim  
## 835 004 Aughrim  
## 836 005 Ballinasloe Rural  
## 837 001 Ballinasloe Urban  
## 838 066 Ballinastack  
## 839 182 Ballinderry  
## 840 183 Ballinduff  
## 841 042 Baile an Teampaill (part)  
## 842 083 Ballycahalan  
## 843 164 Ballyglass  
## 844 006 Ballymacward  
## 845 067 Ballymoe  
## 846 043 Ballynacourty  
## 847 102 Ballynagar  
## 848 136 Ballynakill  
## 849 021 Ballynakill  
## 850 068 Ballynakill  
## 851 184 Ballynapark  
## 852 044 Bearna (part)  
## 853 084 Beagh  
## 854 185 Beaghmore  
## 855 186 Belclare  
## 856 045 Belleville  
## 857 022 Binn an Choire  
## 858 069 Boyounagh  
## 859 103 Bracklagh  
## 860 104 Bullaun  
## 861 023 Bunowen  
## 862 085 Cahermore  
## 863 137 Caltra  
## 864 149 Camas  
## 865 105 Cappalusk  
## 866 086 Cappard  
## 867 046 An Carn Mór  
## 868 047 Ceathrú an Bhrúnaigh (part)  
## 869 187 Carrownagur  
## 870 188 Carrowrevagh  
## 871 138 Castleblakeney  
## 872 106 Castleboy  
## 873 139 Castleffrench  
## 874 087 Castletaylor  
## 875 048 Baile Chláir  
## 876 189 Claretuam  
## 877 049 Clarinbridge  
## 878 024 Cleggan  
## 879 025 Clifden  
## 880 190 Clonbern  
## 881 140 Clonbrock  
## 882 007 Clonfert  
## 883 008 Clontuskert  
## 884 150 An Fhairche  
## 885 141 Cloonkeen  
## 886 107 Cloonkeen  
## 887 191 Cloonkeen  
## 888 108 Colmanstown  
## 889 151 Conga  
## 890 142 Cooloo  
## 891 165 Coos  
## 892 109 Craughwell  
## 893 070 Creggs  
## 894 152 An Crompán  
## 895 192 Cummer  
## 896 153 An Chorr  
## 897 071 Curraghmore  
## 898 050 Deerpark  
## 899 166 Derrew  
## 900 143 Derryglassaun  
## 901 110 Derrylaur  
## 902 193 Donaghpatrick  
## 903 194 Doonbally  
## 904 088 Doorus  
## 905 089 Drumacoo  
## 906 111 Drumkeary  
## 907 167 Drummin  
## 908 195 Dunmore North  
## 909 196 Dunmore South  
## 910 030 Errislannan  
## 911 168 Eyrecourt  
## 912 197 Foxhall  
## 913 051 Na Forbacha  
## 914 052 Galway Rural (part)  
## 915 072 Glennamaddy  
## 916 090 Gort  
## 917 154 Garmna  
## 918 112 Graigabbey  
## 919 113 Grange  
## 920 114 Greethill  
## 921 198 Headford  
## 922 199 Hillsbrook  
## 923 031 An Uillinn  
## 924 053 Árainn  
## 925 073 Island  
## 926 009 Kellysgrove  
## 927 091 Kilbeacanty  
## 928 200 Kilbennan  
## 929 115 Kilchreest  
## 930 116 Kilconickny  
## 931 117 Kilconierin  
## 932 010 Kilconnell  
## 933 201 Kilcoona  
## 934 074 Kilcroan  
## 935 155 Cill Chuimín  
## 936 054 Cill Chuimin  
## 937 011 Killaan  
## 938 012 Killallaghtan  
## 939 055 Cill Aithnín  
## 940 202 Killeany  
## 941 092 Killeely  
## 942 203 Killeen  
## 943 093 Killeenavarra  
## 944 204 Killererin  
## 945 144 Killeroran  
## 946 145 Killian  
## 947 169 Killimor  
## 948 118 Killimor  
## 949 094 Killinny  
## 950 119 Killogilleen  
## 951 013 Killoran  
## 952 205 Killower  
## 953 014 Killure  
## 954 206 Killursa  
## 955 015 Kilmacshane  
## 956 170 Kilmalinoge  
## 957 120 Kilmeen  
## 958 207 Kilmoylan  
## 959 171 Kilquain  
## 960 121 Kilreekill  
## 961 208 Kilshanvy  
## 962 095 Kiltartan  
## 963 122 Kilteskill  
## 964 096 Kilthomas  
## 965 016 Kiltormer  
## 966 123 Kiltullagh  
## 967 075 Kiltullagh  
## 968 097 Kinvarra  
## 969 033 An Cnoc Buí  
## 970 017 Kylemore  
## 971 056 Leacach Beag  
## 972 124 Lackalea  
## 973 018 Laurencetown  
## 974 125 Leitrim  
## 975 156 Leitir Breacáin  
## 976 157 Letterfore  
## 977 158 Leitir Móir  
## 978 209 Levally  
## 979 057 Liscananaun  
## 980 058 Lisín an Bhealaigh  
## 981 019 Lismanny  
## 982 127 Loughrea Rural  
## 983 128 Loughrea Urban  
## 984 172 Meelick  
## 985 210 Milltown  
## 986 173 Moat  
## 987 211 Monivea  
## 988 146 Mount Bellew  
## 989 130 Mountain  
## 990 147 Mounthazel  
## 991 059 Maigh Cuilinn  
## 992 212 Moyne  
## 993 131 Movode  
## 994 034 Maíros  
## 995 020 Oatfield  
## 996 060 Oranmore  
## 997 159 Oughterard  
## 998 035 Abhainn Ghabhla  
## 999 174 Pallas  
## 1000 175 Portumna  
## 1001 132 Raford  
## 1002 098 Rahasane  
## 1003 076 Raheen  
## 1004 036 Rinvyle  
## 1005 160 An Ros  
## 1006 037 Cloch na Rón  
## 1007 213 Ryehill  
## 1008 077 Scregg  
## 1009 061 Sailearna  
## 1010 078 Shankill  
## 1011 038 Sillerna  
## 1012 039 Scainimh  
## 1013 099 Skehanagh  
## 1014 062 Sliabh an Aonaigh  
## 1015 063 An Spidéal  
## 1016 064 Stradbally  
## 1017 148 Taghboy  
## 1018 079 Templetogher  
## 1019 133 Tiaquin  
## 1020 176 Tiranascragh  
## 1021 214 Toberadosh  
## 1022 080 Toberroe  
## 1023 215 Tuam Rural  
## 1024 216 Tuam Urban  
## 1025 065 Tulaigh Mhic Aodháin  
## 1026 161 An Turlach  
## 1027 177 Tynagh  
## 1028 134 Woodford  
## 1029 162 Wormhole  
## 1030 001 Ballybaan  
## 1031 002 Baile an Bhriotaihg  
## 1032 003 Bearna  
## 1033 004 An Caisleán Gearr  
## 1034 005 Claddagh  
## 1035 006 Dangan  
## 1036 007 Eyre Square  
## 1037 008 An Cnocán Carrach  
## 1038 009 Lough Atalia  
## 1039 010 Mionlach  
## 1040 011 Mervue  
## 1041 012 Murroogh  
## 1042 013 Newcastle  
## 1043 014 Nuns Island  
## 1044 015 Rahoon  
## 1045 016 Renmore  
## 1046 017 Rockbarton  
## 1047 019 Salthill  
## 1048 020 Shantalla  
## 1049 018 Paróiste San Nicoláis  
## 1050 021 Taylors Hill  
## 1051 022 Wellpark  
## 1052 128 Abbeydorney  
## 1053 062 Aghadoe  
## 1054 063 Aglish  
## 1055 129 Arabela  
## 1056 093 Ardagh  
## 1057 046 Ardea  
## 1058 130 Ardfert  
## 1059 094 Astee  
## 1060 004 Na Beathacha  
## 1061 095 Ballincloher  
## 1062 005 Baile an Sceilg  
## 1063 026 Ballinvoher  
## 1064 006 An Baile Breac  
## 1065 096 Ballyconry  
## 1066 097 Ballyduff  
## 1067 027 An Baile Dubh  
## 1068 131 Ballyegan  
## 1069 098 Ballyegan  
## 1070 064 Ballyhar  
## 1071 132 Ballyheige  
## 1072 099 Ballyhorgan  
## 1073 028 Ballynacourty  
## 1074 133 Ballynahaglish  
## 1075 134 Ballynorig  
## 1076 135 Ballyseedy  
## 1077 047 Banawn  
## 1078 136 Banna  
## 1079 137 Baurtregaum  
## 1080 100 Beal  
## 1081 138 Blennerville  
## 1082 139 Boolteens  
## 1083 029 Cé Bhréanainn  
## 1084 065 Brewsterfield  
## 1085 140 Brosna  
## 1086 007 Caher  
## 1087 008 Cathair Dónall  
## 1088 048 Cappagh  
## 1089 141 Carker  
## 1090 066 Caragh  
## 1091 101 Carrig  
## 1092 049 Castlecove  
## 1093 030 Castlegregory  
## 1094 142 Castleisland  
## 1095 010 Castlequin  
## 1096 102 Causeway  
## 1097 067 Churchtown  
## 1098 031 An Clochán  
## 1099 143 Clogherbrien  
## 1100 014/011 Cloon/Daoire Ianna  
## 1101 103 Cloontubbrid  
## 1102 068 Clydagh  
## 1103 069 Coolies  
## 1104 070 Coom  
## 1105 144 Cordal  
## 1106 145 Crinny  
## 1107 012 Curraghbeg  
## 1108 072 Currans  
## 1109 013 Doire Fhíonáin  
## 1110 050 Dawros  
## 1111 032 Deelis  
## 1112 146 Derreen  
## 1113 033 An Daingean  
## 1114 073 Doocarrig  
## 1115 147 Doon  
## 1116 074 Dromin  
## 1117 104 Drommartin  
## 1118 051 Dromore  
## 1119 105 Duagh  
## 1120 075 Dunloe  
## 1121 034 Dún Chaoin  
## 1122 035 Dún Urlann  
## 1123 015 An tImleach  
## 1124 106 Ennismore  
## 1125 076 Flesk  
## 1126 016 Glanbehy  
## 1127 052 Glanlee  
## 1128 053 Glanlough  
## 1129 054 Glanmore  
## 1130 036 Na Gleannta  
## 1131 148 Gneeves  
## 1132 055 Greenane  
## 1133 107 Gullane  
## 1134 108 Gunsborough  
## 1135 077 Headfort  
## 1136 037 Inch  
## 1137 056 Kenmare  
## 1138 149 Kerryhead  
## 1139 078 Kilbonane  
## 1140 079 Kilcummin  
## 1141 109 Kilfeighny  
## 1142 080 Kilfelim  
## 1143 150 Kilflyn  
## 1144 151 Kilgarrylander  
## 1145 057 Kilgarvan  
## 1146 152 Kilgobban  
## 1147 081 Kilgobnet  
## 1148 153 Killahan  
## 1149 082 Killarney Rural  
## 1150 001 Killarney Urban  
## 1151 083 Killeentierna  
## 1152 110 Killehenny  
## 1153 017 Killinane  
## 1154 084 Killorglin  
## 1155 111 Killury  
## 1156 038 Cill Maoilchéadair  
## 1157 112 Kilmeany  
## 1158 154 Kilmurry  
## 1159 085 Kilnanare  
## 1160 039 Cill Chuáin  
## 1161 113 Kilshenane  
## 1162 155 Kiltallagh  
## 1163 114 Kiltomy  
## 1164 040 Cinn Aird  
## 1165 156 Knockglass  
## 1166 157 Knocknagashel  
## 1167 086 Knocknahoe  
## 1168 041 Lack  
## 1169 158 Lackabaun  
## 1170 087 Lahard  
## 1171 115 Leitrim  
## 1172 018 Lickeen  
## 1173 116 Lislaughtin  
## 1174 117 Lisselton  
## 1175 118 Listowel Rural  
## 1176 002 Listowel Urban  
## 1177 119 Lixnaw  
## 1178 058 Loughbrin  
## 1179 019 Loch Luíoch  
## 1180 042 Márthain  
## 1181 021 Maum  
## 1182 159 Millbrook  
## 1183 088 Milltown  
## 1184 043 An Mhin Aird  
## 1185 089 Molahiffe  
## 1186 160 Mount Eagle  
## 1187 120 Moynsha  
## 1188 090 Muckross  
## 1189 121 Newtownsandes  
## 1190 161 Nohaval  
## 1191 162 O'Brennan  
## 1192 022 Portmagee  
## 1193 163 Ratass  
## 1194 122 Rathea  
## 1195 091 Rathmore  
## 1196 092 Rockfield  
## 1197 164 Scartaglin  
## 1198 123 Shronowen  
## 1199 060 Sneem  
## 1200 044 An Sráidbhaile  
## 1201 124 Tarbert  
## 1202 125 Tarmon  
## 1203 024 Teeranearagh  
## 1204 165 Tralee Rural  
## 1205 003 Tralee Urban  
## 1206 126 Trienearagh  
## 1207 166 Tubrid  
## 1208 127 Urlee  
## 1209 025 Valencia  
## 1210 045 Ceann Trá  
## 1211 004 Athy Rural  
## 1212 002 Athy West Urban  
## 1213 005 Ballaghmoon  
## 1214 006 Ballitore  
## 1215 007 Ballybrackan  
## 1216 056 Ballymore Eustace  
## 1217 042 Ballynadrumny  
## 1218 057 Ballysax East  
## 1219 058 Ballysax West  
## 1220 008 Ballyshannon  
## 1221 033 Balraheen  
## 1222 009 Belan  
## 1223 010 Bert  
## 1224 059 Bodenstown  
## 1225 011 Burtown  
## 1226 043 Cadamstown  
## 1227 044 Carbury  
## 1228 060 Carnalway  
## 1229 061 Carragh  
## 1230 045 Carrick  
## 1231 012 Carrigeen  
## 1232 013 Castledermot  
## 1233 034 Celbridge  
## 1234 014 Churchtown  
## 1235 062 Clane  
## 1236 035 Cloncurry  
## 1237 046 Cloncurry  
## 1238 036 Donadea  
## 1239 037 Donaghcumper  
## 1240 063 Donore  
## 1241 064 Downings  
## 1242 047 Drehid  
## 1243 065 Droichead Nua (Newbridge) Rural  
## 1244 066 Droichead Nua (Newbridge) Urban  
## 1245 048 Dunfierth  
## 1246 015 Dunmanoge  
## 1247 067 Dunmurry  
## 1248 068 Feighcullen  
## 1249 016 Fontstown  
## 1250 069 Gilltown  
## 1251 017 Graney  
## 1252 018 Grangemellon  
## 1253 020 Inchaquire  
## 1254 021 Johnstown  
## 1255 038 Kilcock  
## 1256 070 Kilcullen  
## 1257 023 Kildangan  
## 1258 071 Kildare  
## 1259 024 Kilkea  
## 1260 072 Kill  
## 1261 073 Killashee  
## 1262 049 Killinthomas  
## 1263 074 Kilmeage North  
## 1264 075 Kilmeage South  
## 1265 050 Kilpatrick  
## 1266 051 Kilrainy  
## 1267 025 Kilrush  
## 1268 076 Kilteel  
## 1269 026 Lackagh  
## 1270 077 Ladytown  
## 1271 039 Leixlip  
## 1272 052 Lullymore  
## 1273 040 Maynooth  
## 1274 027 Monasterevin  
## 1275 028 Moone  
## 1276 078 Morristownbiller  
## 1277 079 Naas Rural  
## 1278 003 Naas Urban  
## 1279 029 Narraghmore  
## 1280 080 Newtown  
## 1281 030 Nurney  
## 1282 081 Oldconnell  
## 1283 082 Oughterard  
## 1284 083 Pollardstown  
## 1285 031 Quinsborough  
## 1286 053 Rathangan  
## 1287 084 Rathernan  
## 1288 085 Rathmore  
## 1289 086 Robertstown  
## 1290 032 Skerries  
## 1291 041 Straffan  
## 1292 054 Thomastown  
## 1293 087 Timahoe North  
## 1294 088 Timahoe South  
## 1295 089 Usk  
## 1296 055 Windmill Cross  
## 1297 001 Athy East Urban  
## 1298 061 Aghaviller  
## 1299 099 Aglish  
## 1300 024 Attanagh  
## 1301 088 Balleen  
## 1302 040 Ballinamara  
## 1303 100 Ballincrea  
## 1304 041 Ballybeagh  
## 1305 042 Ballycallan  
## 1306 089 Ballyconra  
## 1307 062 Ballyhale  
## 1308 025 Ballyragget  
## 1309 063 Ballyvool  
## 1310 090 Baunmore  
## 1311 064 Bennettsbridge  
## 1312 016 Boolyglass  
## 1313 065 Bramblestown  
## 1314 033 Brownsford  
## 1315 003 Burnchurch  
## 1316 004 Callan Rural  
## 1317 005 Callan Urban  
## 1318 066 Castlebanny  
## 1319 026 Castlecomer  
## 1320 067 Castlegannon  
## 1321 043 Clara  
## 1322 027 Clogh  
## 1323 028 Clogharinka  
## 1324 091 Clomantagh  
## 1325 006 Coolaghmore  
## 1326 044 Coolcraheen  
## 1327 068 Coolhill  
## 1328 069 Danesfort  
## 1329 045 Dunbell  
## 1330 101 Dunkitt  
## 1331 046 Dunmore  
## 1332 007 Dunamaggan  
## 1333 034 Dysartmoon  
## 1334 008 Earlstown  
## 1335 070 Ennisnag  
## 1336 071 Famma  
## 1337 102 Farnoge  
## 1338 017 Fiddown  
## 1339 072 Freaghana  
## 1340 047 Freshford  
## 1341 092 Galmoy  
## 1342 093 Glashare  
## 1343 073 Goresbridge  
## 1344 048 Gowran  
## 1345 074 Graiguenamanagh  
## 1346 049 Grange  
## 1347 075 Inistioge  
## 1348 076 Jerpoint Church  
## 1349 035 Jerpoint West  
## 1350 094 Johnstown  
## 1351 009 Kells  
## 1352 103 Kilbeacon  
## 1353 104 Kilbride  
## 1354 105 Kilcolumb  
## 1355 106 Kilculliheen (part)  
## 1356 077 Kilfane  
## 1357 078 Kilkeasy  
## 1358 001 Kilkenny No. 1 Urban  
## 1359 002 Kilkenny No. 2 Urban  
## 1360 050 Kilkenny Rural  
## 1361 051 Kilkieran  
## 1362 107 Killahy  
## 1363 010 Killamery  
## 1364 029 Kilmacar  
## 1365 011 Kilmaganny  
## 1366 108 Kilmakevoge  
## 1367 012 Kilmanagh  
## 1368 079 Kiltorcan  
## 1369 080 Knocktopher  
## 1370 095 Lisdowney  
## 1371 036 Listerlin  
## 1372 013 Mallardstown  
## 1373 030 Moneenroe  
## 1374 031 Mothell  
## 1375 018 Muckalee  
## 1376 032 Muckalee  
## 1377 052 Odagh  
## 1378 053 Outrath  
## 1379 054 Paulstown  
## 1380 019 Pilltown  
## 1381 081 Pleberstown  
## 1382 109 Pollrone  
## 1383 110 Portnascully  
## 1384 082 Powerstown  
## 1385 096 Rathbeagh  
## 1386 055 Rathcoole  
## 1387 056 Rathealy  
## 1388 111 Rathpatrick  
## 1389 037 Rosbercon Rural  
## 1390 112 Rossinan  
## 1391 014 Scotsborough  
## 1392 038 Shanbogh  
## 1393 058 Shankill  
## 1394 057 St. Canice  
## 1395 083 Stonyford  
## 1396 020 Templeorum  
## 1397 039 The Rower  
## 1398 084 Thomastown  
## 1399 059 Tiscoffin  
## 1400 021 Tubbrid  
## 1401 097 Tubbridbrittain  
## 1402 015 Tullaghanbrogue  
## 1403 022 Tullahought  
## 1404 060 Tullaroan  
## 1405 086 Ullard  
## 1406 113 Ullid  
## 1407 098 Urlingford  
## 1408 023 Whitechurch  
## 1409 001 Abbeyleix  
## 1410 002 Aghmacart  
## 1411 040 Arderin  
## 1412 088 Ardough  
## 1413 089 Arless  
## 1414 090 Ballickmoyler  
## 1415 003 Ballinakill  
## 1416 028 Ballyadams  
## 1417 041 Ballybrittas  
## 1418 042 Ballycarroll  
## 1419 043 Ballyfin  
## 1420 091 Ballylehane  
## 1421 029 Ballylynan  
## 1422 004 Ballyroan  
## 1423 030 Barrowhouse  
## 1424 005 Blandsfort  
## 1425 044 Borris  
## 1426 080 Borris-in-Ossory  
## 1427 006 Caher  
## 1428 047 Cappalough  
## 1429 048 Cardtown  
## 1430 049 Castlecuffe  
## 1431 007 Castletown  
## 1432 008 Clash  
## 1433 050 Clonaslee  
## 1434 051 Clondarrig  
## 1435 052 Clonin  
## 1436 009 Clonkeen  
## 1437 081 Clonmore  
## 1438 010 Colt  
## 1439 053 Coolrain  
## 1440 011 Cuffsborough  
## 1441 012 Cullahill  
## 1442 013 Cullenagh  
## 1443 031 Curraclone  
## 1444 054 Dangans  
## 1445 014 Donaghmore  
## 1446 015 Donore  
## 1447 092 Doonane  
## 1448 016 Dunmore  
## 1449 017 Durrow  
## 1450 018 Dysartgallen  
## 1451 055 Emo  
## 1452 082 Errill  
## 1453 093 Farnans  
## 1454 019 Fossy  
## 1455 056 Garrymore  
## 1456 057 Graigue  
## 1457 094 Graigue Rural  
## 1458 020 Grantstown  
## 1459 058 Jamestown  
## 1460 021 Kilcoke  
## 1461 059 Kilcolmanbane  
## 1462 022 Kildellig  
## 1463 032 Killabban  
## 1464 023 Killermogh  
## 1465 060 Kilmullen  
## 1466 061 Kilmurry  
## 1467 024 Kilnaseer  
## 1468 083 Kyle  
## 1469 084 Kyle South  
## 1470 062 Lacka  
## 1471 033 Luggacurren  
## 1472 063 Marymount  
## 1473 064 Meelick  
## 1474 085 Moneenalassa  
## 1475 086 Moneymore  
## 1476 065 Mountmellick Rural  
## 1477 066 Mountmellick Urban  
## 1478 067 Mountrath  
## 1479 034 Moyanna  
## 1480 068 Nealstown  
## 1481 095 Newtown  
## 1482 069 O'More's Forest  
## 1483 070 Portarlington South  
## 1484 071 Portlaoighise (Maryborough) Rural  
## 1485 072 Portlaoighise (Maryborough) Urban  
## 1486 025 Raheen  
## 1487 035 Rathaspick  
## 1488 026 Rathdowney  
## 1489 087 Rathsaran  
## 1490 073 Rearymore  
## 1491 074 Rosenallis  
## 1492 096 Rossmore  
## 1493 075 Sallyford  
## 1494 076 Shaen  
## 1495 097 Shrule  
## 1496 036 Stradbally  
## 1497 037 Tankardstown  
## 1498 027 Timahoe  
## 1499 038 Timogue  
## 1500 077 Tinnahinch  
## 1501 078 Trumra  
## 1502 098 Turra  
## 1503 039 Vicarstown  
## 1504 012 Aghacashel  
## 1505 056 Aghavas  
## 1506 013 Annaduff  
## 1507 035 Ballaghameehan  
## 1508 001 Ballinamore  
## 1509 014 Barnameenagh  
## 1510 057 Beihy  
## 1511 036 Belhavel  
## 1512 058 Breandrum  
## 1513 059 Bunnybeg  
## 1514 015 Carrick-on-Shannon  
## 1515 060 Carrigallen East  
## 1516 061 Carrigallen West  
## 1517 062 Cashel  
## 1518 063 Castlefore  
## 1519 064 Cattan  
## 1520 037 Cloonclare  
## 1521 065 Cloone  
## 1522 038 Cloonlogher  
## 1523 002 Cloverhill  
## 1524 003 Corrala  
## 1525 066 Corriga  
## 1526 039 Drumahaire  
## 1527 067 Drumard  
## 1528 040 Drumkeeran  
## 1529 069 Drumod  
## 1530 004 Drumreilly North  
## 1531 005 Drumreilly South  
## 1532 018 Drumshanbo  
## 1533 019 Drumsna  
## 1534 068 Drumdoo  
## 1535 070 Fenagh  
## 1536 006 Garadice  
## 1537 042 Glenade  
## 1538 043 Glenaniff  
## 1539 044 Glenboy  
## 1540 045 Glencar  
## 1541 046 Glenfarn  
## 1542 071 Gortermone  
## 1543 020 Gortnagullion  
## 1544 021 Gowel  
## 1545 030 Gubacreeny  
## 1546 072 Keeldra  
## 1547 022 Keshcarrigan  
## 1548 047 Killanummery  
## 1549 048 Killarga  
## 1550 008 Killygar  
## 1551 023 Kiltubbrid  
## 1552 049 Kiltyclogher  
## 1553 031 Kinlough  
## 1554 024 Leitrim  
## 1555 073 Lisgillock  
## 1556 050 Lurganboy  
## 1557 051 Mahanagh  
## 1558 052 Manorhamilton  
## 1559 025 Moher  
## 1560 074 Mohill  
## 1561 053 Munakill  
## 1562 009 Newtowngore  
## 1563 010 Oughteragh  
## 1564 076 Riverstown  
## 1565 077 Roosky  
## 1566 078 Rowan  
## 1567 054 Sramore  
## 1568 055 St. Patrick's  
## 1569 033 Tullaghan  
## 1570 026 Yugan  
## 1571 078 Abbeyfeale  
## 1572 001 Abbeyville  
## 1573 049 Abington  
## 1574 002 Adare North  
## 1575 003 Adare South  
## 1576 069 Anglesborough  
## 1577 079 Ardagh  
## 1578 025 Ardpatrick  
## 1579 107 Askeaton East  
## 1580 108 Askeaton West  
## 1581 026 Athlacca  
## 1582 109 Aughinish  
## 1583 004 Ballingarry  
## 1584 080 Ballintober  
## 1585 005 Ballyagran  
## 1586 110 Ballyallinan  
## 1587 050 Ballybricken  
## 1588 051 Ballycummin  
## 1589 006 Ballygrennan  
## 1590 070 Ballylanders  
## 1591 027 Ballymacshaneboy  
## 1592 007 Ballynabanoge  
## 1593 111 Ballynacarriga  
## 1594 008 Ballynoe  
## 1595 081 Ballynoe West  
## 1596 052 Ballysimon  
## 1597 053 Ballyvarra  
## 1598 132 Bilboa  
## 1599 082 Boola  
## 1600 083 Broadford  
## 1601 028 Bruff  
## 1602 029 Bruree  
## 1603 030 Bulgaden  
## 1604 084 Caher  
## 1605 054 Caherconlish East  
## 1606 055 Caherconlish West  
## 1607 031 Cahercorney  
## 1608 056 Caherelly  
## 1609 057 Cappamore  
## 1610 058 Carrig  
## 1611 059 Castleconnell  
## 1612 009 Castletown  
## 1613 112 Castletown  
## 1614 060 Clarina  
## 1615 085 Cleanglass  
## 1616 086 Cloncagh  
## 1617 061 Clonkeen  
## 1618 032 Colmanswell  
## 1619 010 Coolrus  
## 1620 113 Craggs  
## 1621 011 Crean  
## 1622 012 Crecora  
## 1623 114 Croagh  
## 1624 013 Croom  
## 1625 071 Cullane  
## 1626 087 Danganbeg  
## 1627 033 Darragh  
## 1628 133 Doon South  
## 1629 062 Doon West  
## 1630 115 Dromard  
## 1631 088 Dromcolliher  
## 1632 034 Dromin  
## 1633 089 Dromtrasna  
## 1634 116 Dunmoylan East  
## 1635 117 Dunmoylan West  
## 1636 014 Dunnaman  
## 1637 072 Duntryleague  
## 1638 035 Emlygrennan  
## 1639 015 Fedamore  
## 1640 090 Feenagh  
## 1641 021 Fleanmore  
## 1642 073 Galbally  
## 1643 016 Garrane  
## 1644 091 Garryduff  
## 1645 092 Glenagower  
## 1646 036 Glenbrohane  
## 1647 093 Glengort  
## 1648 094 Glensharrold  
## 1649 063 Glenstal  
## 1650 022 Glin  
## 1651 017 Grange  
## 1652 134 Grean  
## 1653 037 Griston  
## 1654 038 Hospital  
## 1655 118 Iveruss  
## 1656 074 Kilbeheny  
## 1657 119 Kilcornan  
## 1658 120 Kildimo  
## 1659 023 Kilfergus  
## 1660 039 Kilfinnane  
## 1661 018 Kilfinny  
## 1662 040 Kilflyn  
## 1663 075 Kilglass  
## 1664 041 Kilmallock  
## 1665 095 Kilmeedy  
## 1666 024 Kilmoylan  
## 1667 064 Kilmurry  
## 1668 019 Kilpeacon  
## 1669 121 Kilscannell  
## 1670 042 Kilteely  
## 1671 096 Knockaderry  
## 1672 043 Knockainy  
## 1673 044 Knocklong  
## 1674 076 Knocknascrow  
## 1675 065 Limerick North Rural  
## 1676 066 Limerick South Rural  
## 1677 122 Lismakeery  
## 1678 123 Loghill  
## 1679 097 Mahoonagh  
## 1680 124 Mohernagh  
## 1681 098 Monagay  
## 1682 099 Mountcollins  
## 1683 100 Mountplummer  
## 1684 125 Nantinan  
## 1685 101 Newcastle Rural  
## 1686 102 Newcastle Urban  
## 1687 135 Oola  
## 1688 126 Pallaskenry  
## 1689 045 Particles  
## 1690 067 Patrickswell  
## 1691 103 Port  
## 1692 127 Rathkeale Rural  
## 1693 128 Rathkeale Urban  
## 1694 020 Rathmore  
## 1695 104 Rathronan  
## 1696 129 Riddlestown  
## 1697 077 Riversdale  
## 1698 046 Rockhill  
## 1699 105 Rooskagh  
## 1700 068 Roxborough  
## 1701 130 Shanagolden  
## 1702 131 Shanid  
## 1703 136 Templebredon  
## 1704 106 Templeglentan  
## 1705 047 Tobernea  
## 1706 048 Uregare  
## 1707 001 Abbey A  
## 1708 002 Abbey B  
## 1709 003 Abbey C  
## 1710 004 Abbey D  
## 1711 005 Ballinacurra A  
## 1712 006 Ballinacurra B  
## 1713 007 Ballynanty  
## 1714 008 Castle A  
## 1715 009 Castle B  
## 1716 010 Castle C  
## 1717 011 Castle D  
## 1718 012 Coolraine  
## 1719 013 Custom House  
## 1720 014 Dock A  
## 1721 015 Dock B  
## 1722 016 Dock C  
## 1723 017 Dock D  
## 1724 018 Farranshone  
## 1725 019 Galvone A  
## 1726 020 Galvone B  
## 1727 021 Glentworth A  
## 1728 022 Glentworth B  
## 1729 023 Glentworth C  
## 1730 024 John's A  
## 1731 025 John's B  
## 1732 026 John's C  
## 1733 027 Killeely A  
## 1734 028 Killeely B  
## 1735 029 Market  
## 1736 030 Prospect A  
## 1737 031 Prospect B  
## 1738 032 Rathbane  
## 1739 034 Shannon A  
## 1740 035 Shannon B  
## 1741 036 Singland A  
## 1742 037 Singland B  
## 1743 033 St. Laurence  
## 1744 013 Abbeylara  
## 1745 037 Aghaboy  
## 1746 003 Agharra  
## 1747 038 Ardagh East  
## 1748 039 Ardagh West  
## 1749 014 Ballinalee  
## 1750 040 Ballinamuck East  
## 1751 041 Ballinamuck West  
## 1752 004 Ballymahon  
## 1753 015 Ballymuigh  
## 1754 042 Breanrisk  
## 1755 016 Bunlahy  
## 1756 043 Caldragh  
## 1757 005 Cashel East  
## 1758 006 Cashel West  
## 1759 044 Cloondara  
## 1760 045 Cloonee  
## 1761 017 Columbkille  
## 1762 018 Coolamber  
## 1763 046 Corboy  
## 1764 019 Creevy  
## 1765 020 Crosagstown  
## 1766 021 Currygrane  
## 1767 022 Dalystown  
## 1768 007 Doory  
## 1769 047 Drumgort  
## 1770 048 Drumlish  
## 1771 023 Drummeel  
## 1772 030 Meathas Truim  
## 1773 008 Forgney  
## 1774 009 Foxhall  
## 1775 025 Gelshagh  
## 1776 026 Granard Rural  
## 1777 027 Granard Urban  
## 1778 010 Kilcommock  
## 1779 011 Kilglass  
## 1780 049 Killashee  
## 1781 050 Killoe  
## 1782 028 Knockanbaun  
## 1783 012 Ledwithstown  
## 1784 029 Lislea  
## 1785 001 Longford No. 1 Urban  
## 1786 002 Longford No. 2 Urban  
## 1787 051 Longford Rural  
## 1788 031 Milltown  
## 1789 032 Moatfarrell  
## 1790 052 Mountdavis  
## 1791 053 Moydow  
## 1792 033 Moyne  
## 1793 034 Mullanalaghta  
## 1794 054 Newtown Forbes  
## 1795 055 Rathcline  
## 1796 036 Sonnagh  
## 1797 008 Ardee Rural  
## 1798 009 Ardee Urban  
## 1799 019 Ballymascanlan  
## 1800 020 Barronstown  
## 1801 021 Carlingford  
## 1802 010 Castlebellingham  
## 1803 022 Castlering  
## 1804 023 Castletown  
## 1805 037 Clogher  
## 1806 011 Clonkeen  
## 1807 012 Collon  
## 1808 024 Creggan Upper  
## 1809 025 Darver  
## 1810 001 Fair Gate  
## 1811 013 Dromin  
## 1812 014 Dromiskin  
## 1813 015 Drumcar  
## 1814 026 Drummullagh  
## 1815 027 Dundalk Rural  
## 1816 006 Dundalk Urban No. 3  
## 1817 016 Dunleer  
## 1818 038 Dysart  
## 1819 028 Faughart  
## 1820 029 Greenore  
## 1821 030 Haggardstown  
## 1822 031 Jenkinstown  
## 1823 032 Killanny  
## 1824 033 Louth  
## 1825 034 Mansfieldstown  
## 1826 039 Monasterboice  
## 1827 040 Mullary  
## 1828 035 Rathcor  
## 1829 036 Ravensdale  
## 1830 003 West Gate  
## 1831 041 St. Peter's  
## 1832 017 Stabannan  
## 1833 018 Tallanstown  
## 1834 042 Termonfeckin  
## 1835 002 St. Laurence Gate  
## 1836 004 Dundalk Urban No. 1  
## 1837 005 Dundalk Urban No. 2  
## 1838 007 Dundalk Urban No. 4  
## 1839 047 St. Mary's (part)  
## 1840 124 Acaill  
## 1841 066 Addergoole  
## 1842 125 Aghagower North  
## 1843 126 Aghagower South  
## 1844 103 Aghamore  
## 1845 127 Aillemore  
## 1846 052 An Geata Mór Theas  
## 1847 051 An Geata Mór Thuaidh  
## 1848 005 Ardagh  
## 1849 006 Ardnaree North  
## 1850 007 Ardnaree South Rural  
## 1851 008 Attymass East  
## 1852 009 Attymass West  
## 1853 067 Balla  
## 1854 010 Ballina Rural  
## 1855 002 Ballina Urban  
## 1856 068 Ballinafad  
## 1857 104 Ballinamore  
## 1858 033 Baile an Chalaidh  
## 1859 084 Ballindine  
## 1860 034 Ballinrobe  
## 1861 011 Ballycastle  
## 1862 128 Ballycroy North  
## 1863 085 Ballyhaunis  
## 1864 069 Ballyhean  
## 1865 086 Ballyhowly  
## 1866 070 Ballynagoraher  
## 1867 035 Baile Óbha  
## 1868 012 Ballysakeery  
## 1869 053 Bangor  
## 1870 054 Barr Rúscaí  
## 1871 087 Bekan  
## 1872 071 Bellavary  
## 1873 055 Béal an Mhuirthead  
## 1874 105 Bohola  
## 1875 106 Brackloon  
## 1876 072 Breaghwy  
## 1877 014 Bunaveela  
## 1878 073 Burren  
## 1879 036 Burriscarra  
## 1880 107 Callow  
## 1881 037 An Cheapaigh Dhuibh  
## 1882 088 Caraun  
## 1883 015 Carrowmore  
## 1884 074 Castlebar Rural  
## 1885 003 Castlebar Urban  
## 1886 131 Clare Island  
## 1887 089 Claremorris  
## 1888 075 Clogher  
## 1889 132 Clogher  
## 1890 090 Cloghermore  
## 1891 076 Cloonkeen  
## 1892 108 Cloonmore  
## 1893 038 Cong  
## 1894 109 Coolnaha  
## 1895 039 Coonard  
## 1896 133 An Corrán  
## 1897 091 Course  
## 1898 077 Croaghmoyle  
## 1899 134 Croaghpatrick  
## 1900 092 Crossboyne  
## 1901 016 Crossmolina North  
## 1902 017 Crossmolina South  
## 1903 110 Cuildoo  
## 1904 093 Culnacleha  
## 1905 040 Dalgan  
## 1906 018 Deel  
## 1907 019 Derry  
## 1908 135 Derryloughan  
## 1909 111 Doocastle  
## 1910 136 Dumha Éige  
## 1911 137 Drummin  
## 1912 138 Emlagh  
## 1913 020 Fortland  
## 1914 094 Garrymore  
## 1915 056 Gleann na Muaidhe  
## 1916 057 Gleann Chaisil  
## 1917 140 Glenhest  
## 1918 059 Guala Mhór  
## 1919 041 Hollymount  
## 1920 042 Houndswood  
## 1921 141 Islandeady  
## 1922 112 Kilbeagh  
## 1923 095 Kilcolman  
## 1924 043 Kilcommon  
## 1925 021 Kilfian East  
## 1926 022 Kilfian South  
## 1927 023 Kilfian West  
## 1928 024 Kilgarvan  
## 1929 142 Kilgeever  
## 1930 113 Kilkelly  
## 1931 025 Killala  
## 1932 078 Killavally  
## 1933 114 Killedan  
## 1934 143 Kilmaclasser  
## 1935 044 Kilmaine  
## 1936 144 Kilmeena  
## 1937 115 Kilmovee  
## 1938 145 Kilsallagh  
## 1939 116 Kiltamagh  
## 1940 096 Kilvine  
## 1941 146 Knappagh  
## 1942 097 Knock North  
## 1943 098 Knock South  
## 1944 060 Cnoc an Daimh  
## 1945 061 Cnoc na Lobhar  
## 1946 026 Lackan North  
## 1947 027 Lackan South  
## 1948 028 Letterbrick  
## 1949 099 Loughanboy  
## 1950 147 Louisburgh  
## 1951 079 Manulla  
## 1952 100 Mayo  
## 1953 117 Meelick  
## 1954 029 Mount Falcon  
## 1955 062 Moing na Bó  
## 1956 101 Murneen  
## 1957 045 Neale  
## 1958 046 Newbrook  
## 1959 148 Newport East  
## 1960 149 Newport West  
## 1961 047 Abhainn Bhrain  
## 1962 080 Pontoon  
## 1963 048 Partraí  
## 1964 064 Cnoc na Ráithe  
## 1965 030 Rathoma  
## 1966 049 Roslee  
## 1967 031 Sallymount  
## 1968 050 Shrule  
## 1969 151 Slievemahanagh  
## 1970 152 Slievemore  
## 1971 118 Sonnagh  
## 1972 032 Sraheen  
## 1973 153 Srahmore  
## 1974 081 Strade  
## 1975 119 Swineford  
## 1976 102 Tagheen  
## 1977 082 Tamhnaigh na Graí  
## 1978 120 Toocananagh  
## 1979 121 Toomore  
## 1980 122 Tumgesh  
## 1981 083 Turlough  
## 1982 123 Urlaur  
## 1983 154 Westport Rural  
## 1984 004 Westport Urban  
## 1985 001 Ardnaree South Urban  
## 1986 019 Ardagh  
## 1987 049 Ardbraccan  
## 1988 043 Ardcath  
## 1989 050 Ardmulchan  
## 1990 069 Ardnamullan  
## 1991 070 Baile Átha Buí  
## 1992 020 Ballinlough  
## 1993 071 Ballyboggan  
## 1994 072 Ballyconnell  
## 1995 021 Balrathboyne  
## 1996 051 Bective  
## 1997 022 Boherboy  
## 1998 023 Burry  
## 1999 024 Carrickleck  
## 2000 073 Castlejordan  
## 2001 025 Castlekeeran  
## 2002 074 Castlerickard  
## 2003 052 Castletown  
## 2004 075 Cloghbrack  
## 2005 076 Clonmacduff  
## 2006 061 Crossakeel  
## 2007 062 Crosskeys  
## 2008 027 Cruicetown  
## 2009 007 Culmullin  
## 2010 008 Donaghmore  
## 2011 053 Domhnach Phádraig  
## 2012 004 Drumcondra  
## 2013 044 Duleek  
## 2014 009 Dunboyne  
## 2015 010 Dunshaughlin  
## 2016 077 Gallow  
## 2017 078 Galtrim  
## 2018 028 Girley  
## 2019 005 Grangegeeth  
## 2020 079 Grennanstown  
## 2021 080 Hill of Down  
## 2022 081 Innfield  
## 2023 045 Julianstown  
## 2024 026 Ceannanus Mór (Kells) Rural  
## 2025 001 Ceannanus Mór (Kells) Urban  
## 2026 054 Kentstown  
## 2027 011 Kilbrew  
## 2028 082 Cill Bhríde  
## 2029 083 Kilcooly  
## 2030 084 Kildalky  
## 2031 085 Killaconnigan  
## 2032 063 Killallon  
## 2033 006 Killary  
## 2034 064 Killeagh  
## 2035 012 Killeen  
## 2036 086 Killyon  
## 2037 029 Kilmainham  
## 2038 013 Kilmessan  
## 2039 014 Kilmore  
## 2040 030 Kilskeer  
## 2041 065 Knocklough  
## 2042 087 Laracor  
## 2043 031 Loughan  
## 2044 032 Maperath  
## 2045 033 Martry  
## 2046 046 Mellifont  
## 2047 034 Moybolgue  
## 2048 066 Moylagh  
## 2049 035 Moynalty  
## 2050 055 Navan Rural  
## 2051 002 Navan Urban  
## 2052 036 Newcastle  
## 2053 037 Newtown  
## 2054 038 Nobber  
## 2055 067 Oldcastle  
## 2056 056 Painestown  
## 2057 039 Posseckstown  
## 2058 088 Rahinstown  
## 2059 015 Rathfeigh  
## 2060 057 Rathkenny  
## 2061 090 An Ráth Mhór  
## 2062 089 Rathmolyon  
## 2063 016 Ratoath  
## 2064 017 Rodanstown  
## 2065 018 Skreen  
## 2066 058 Slane  
## 2067 059 Stackallan  
## 2068 040 Staholmog  
## 2069 048 Stamullin  
## 2070 068 Stonefield  
## 2071 091 Summerhill  
## 2072 060 Tara  
## 2073 041 Tailtin  
## 2074 092 Trim Rural (part)  
## 2075 003 Trim Urban  
## 2076 042 Trohanny  
## 2077 034 Aghabog  
## 2078 047 Anketell Grove  
## 2079 020 Annayalla  
## 2080 035 Anny  
## 2081 021 Ballybay Rural  
## 2082 022 Ballybay Urban  
## 2083 005 Ballymackney  
## 2084 048 Bellanode  
## 2085 023 Bellatrain  
## 2086 006 Bocks  
## 2087 049 Bragan  
## 2088 024 Broomfield  
## 2089 050 Caddagh  
## 2090 025 Carrickaslane  
## 2091 026 Carrickatee  
## 2092 007 Carrickmacross Rural  
## 2093 001 Carrickmacross Urban  
## 2094 002 Castleblayney Urban  
## 2095 027 Castleblayney Rural  
## 2096 051 Castleshane  
## 2097 028 Church Hill  
## 2098 052 Clones  
## 2099 036 Clones Rural  
## 2100 003 Clones Urban  
## 2101 053 Clontibret  
## 2102 037 Cormeen  
## 2103 008 Corracharra  
## 2104 029 Creeve  
## 2105 030 Cremartin  
## 2106 009 Crossalare  
## 2107 038 Currin  
## 2108 039 Dawsongrove  
## 2109 054 Derrygorry  
## 2110 010 Donaghmoyne  
## 2111 040 Drum  
## 2112 011 Drumboory  
## 2113 012 Drumcarrow  
## 2114 013 Drumgurra  
## 2115 055 Drumhillagh  
## 2116 041 Drummully  
## 2117 056 Drumsnat  
## 2118 057 Emyvale  
## 2119 058 Enagh  
## 2120 014 Enagh  
## 2121 059 Figullar  
## 2122 060 Glaslough  
## 2123 031 Greagh  
## 2124 015 Inishkeen  
## 2125 042 Killeevan  
## 2126 061 Killylough  
## 2127 062 Kilmore  
## 2128 016 Kilmurry  
## 2129 017 Kiltybegs  
## 2130 032 Laragh  
## 2131 044 Lisnaveane  
## 2132 018 Loughfea  
## 2133 063 Monaghan Rural  
## 2134 004 Monaghan Urban  
## 2135 033 Mullyash  
## 2136 045 Newbliss  
## 2137 064 Rackwallace  
## 2138 019 Raferagh  
## 2139 065 Scotstown  
## 2140 066 Shanmullagh  
## 2141 067 Sheskin  
## 2142 046 St. Tierney  
## 2143 068 Tedavnet  
## 2144 069 Tehallan  
## 2145 070 Tullycorbet  
## 2146 046 Aghancon  
## 2147 047 Ballincor  
## 2148 035 Ballyburly  
## 2149 059 Ballycommon  
## 2150 003 Ballycumber  
## 2151 036 Ballymacwilliam  
## 2152 060 Ballyshear  
## 2153 004 Banagher  
## 2154 048 Barna  
## 2155 061 Bawn  
## 2156 005 Birr Rural  
## 2157 001 Birr Urban  
## 2158 037 Bracknagh  
## 2159 006 Broughal  
## 2160 049 Cangort  
## 2161 062 Cappancur  
## 2162 063 Clara  
## 2163 007 Cloghan  
## 2164 038 Clonbulloge  
## 2165 008 Clonmacnoise  
## 2166 039 Clonmore  
## 2167 064 Clonygowan  
## 2168 040 Croghan  
## 2169 050 Cullenwaine  
## 2170 065 Daingean  
## 2171 009 Derrinboy  
## 2172 010 Derryad  
## 2173 066 Derrycooley  
## 2174 011 Doon  
## 2175 012 Dromoyle  
## 2176 013 Drumcullen  
## 2177 051 Dunkerrin  
## 2178 067 Durrow  
## 2179 041 Edenderry Rural  
## 2180 042 Edenderry Urban  
## 2181 014 Eglish  
## 2182 052 Ettagh  
## 2183 015 Ferbane  
## 2184 016 Gallen  
## 2185 068 Geashill  
## 2186 053 Gorteen  
## 2187 069 Gorteen  
## 2188 070 Hammerlane  
## 2189 017 Hinds  
## 2190 018 Huntston  
## 2191 071 Kilclonfert  
## 2192 019 Kilcolman  
## 2193 020 Kilcormac  
## 2194 072 Kilcumreragh  
## 2195 073 Killeigh  
## 2196 074 Killooly  
## 2197 075 Killoughy  
## 2198 021 Killyon  
## 2199 022 Kinnitty  
## 2200 023 Knockbarron  
## 2201 044 Knockdrin  
## 2202 024 Lea  
## 2203 025 Letter  
## 2204 026 Lumcloon  
## 2205 027 Lusmagh  
## 2206 045 Monasteroris  
## 2207 076 Mountbriscoe  
## 2208 028 Mounterin  
## 2209 054 Mountheaton  
## 2210 029 Moyclare  
## 2211 077 O'Dempsey  
## 2212 078 Portarlington North  
## 2213 079 Rahan  
## 2214 080 Raheenakeeran  
## 2215 081 Rathfeston  
## 2216 082 Rathrobin  
## 2217 055 Roscomroe  
## 2218 083 Screggan  
## 2219 030 Seirkieran  
## 2220 031 Shannonbridge  
## 2221 032 Shannonharbour  
## 2222 056 Shinrone  
## 2223 084 Silverbrook  
## 2224 033 Srah  
## 2225 057 Templeharry  
## 2226 085 Tinamuck  
## 2227 086 Tinnycross  
## 2228 058 Tulla  
## 2229 087 Tullamore Rural  
## 2230 002 Tullamore Urban  
## 2231 024 Aghafin  
## 2232 074 Annaghmore  
## 2233 055 Artagh North  
## 2234 056 Artagh South  
## 2235 075 Athleague East  
## 2236 076 Athleague West  
## 2237 001 Athlone West Rural  
## 2238 026 Aughrim East  
## 2239 027 Aughrim West  
## 2240 057 Ballaghaderreen  
## 2241 058 Ballinlough  
## 2242 059 Ballintober  
## 2243 002 Ballydangan  
## 2244 028 Ballyfarnan  
## 2245 029 Ballyfermoyle  
## 2246 077 Ballygarden  
## 2247 003 Ballynamona  
## 2248 060 Baslick  
## 2249 061 Bellanagare  
## 2250 030 Boyle Rural  
## 2251 031 Boyle Urban  
## 2252 032 Breedoge  
## 2253 062 Buckill  
## 2254 078 Bumlin  
## 2255 004 Caltragh  
## 2256 079 Cams  
## 2257 005 Carnagh  
## 2258 063 Carrowduff  
## 2259 006 Carrowreagh  
## 2260 064 Castleplunket  
## 2261 065 Castlereagh  
## 2262 007 Castlesampson  
## 2263 066 Castleteheen  
## 2264 008 Cloonburren  
## 2265 080 Cloonfinlough  
## 2266 067 Cloonfower  
## 2267 009 Cloonown  
## 2268 033 Cloonteen  
## 2269 081 Cloontuskert  
## 2270 082 Cloonygormican  
## 2271 083 Cloonyquin  
## 2272 068 Coolougher  
## 2273 010 Crannagh  
## 2274 011 Creagh  
## 2275 084 Creeve  
## 2276 034 Creeve  
## 2277 085 Cregga  
## 2278 035 Croghan  
## 2279 036 Crossna  
## 2280 012 Culliagh  
## 2281 037 Danesfort  
## 2282 086 Drumdaff  
## 2283 013 Drumlosh  
## 2284 087 Dunamon  
## 2285 014 Dysart  
## 2286 069 Edmondstown  
## 2287 088 Elia  
## 2288 089 Elphin  
## 2289 038 Estersnow  
## 2290 070 Fairymount  
## 2291 071 Frenchpark  
## 2292 090 Fuerty  
## 2293 039 Keadew  
## 2294 091 Kilbride North  
## 2295 092 Kilbride South  
## 2296 040 Kilbryan  
## 2297 015 Kilcar  
## 2298 041 Kilcolagh  
## 2299 093 Kilgefin  
## 2300 094 Kilglass North  
## 2301 095 Kilglass South  
## 2302 096 Killavackan  
## 2303 042 Killukin  
## 2304 097 Killukin  
## 2305 043 Killummod  
## 2306 044 Kilmacumsy  
## 2307 098 Kilteevan  
## 2308 016 Kiltoom  
## 2309 072 Kiltullagh  
## 2310 099 Lackan  
## 2311 017 Lecarrow  
## 2312 100 Lismaha  
## 2313 101 Lissonuffy  
## 2314 073 Loughglinn  
## 2315 018 Moore  
## 2316 102 Mote  
## 2317 049 Oakport  
## 2318 103 Ogulla  
## 2319 019 Rockhill  
## 2320 050 Rockingham  
## 2321 104 Roosky  
## 2322 105 Roscommon Rural  
## 2323 106 Roscommon Urban  
## 2324 107 Rosmoylan  
## 2325 108 Rossmore  
## 2326 051 Rushfield  
## 2327 109 Scregg  
## 2328 110 Strokestown  
## 2329 020 Taghboy  
## 2330 021 Taghmaconnell  
## 2331 111 Termonbarry  
## 2332 022 Thomastown  
## 2333 052 Tivannagh  
## 2334 112 Tulsk  
## 2335 053 Tumna North  
## 2336 054 Tumna South  
## 2337 023 Turrock  
## 2338 062 Achonry East  
## 2339 063 Achonry West  
## 2340 064 Aclare  
## 2341 004 Aghanagh  
## 2342 017 Aughris  
## 2343 034 Ballintogher East  
## 2344 035 Ballintogher West  
## 2345 036 Ballymote  
## 2346 037 Ballynakill  
## 2347 005 Ballynashee  
## 2348 038 Ballysadare East  
## 2349 039 Ballysadare West  
## 2350 066 Banada  
## 2351 068 Breencorragh  
## 2352 040 Bricklieve  
## 2353 018 Buncrowey  
## 2354 041 Calry  
## 2355 042 Carney  
## 2356 043 Carrickbanagher  
## 2357 070 Cartron  
## 2358 019 Castleconor East  
## 2359 020 Castleconor West  
## 2360 044 Cliffony North  
## 2361 045 Cliffony South  
## 2362 078/071 Loughill/Cloonacool  
## 2363 072 Cloonoghill  
## 2364 046 Collooney  
## 2365 073 Coolaney  
## 2366 006 Coolavin  
## 2367 007 Cuilmore  
## 2368 021 Dromard East  
## 2369 022 Dromard West  
## 2370 023 Dromore  
## 2371 047 Drumcliff East  
## 2372 048 Drumcliff West  
## 2373 049 Drumcolumb  
## 2374 050 Drumfin  
## 2375 008 Drumrat  
## 2376 024 Easky East  
## 2377 025 Easky West  
## 2378 051 Glencar  
## 2379 074 Glendarragh  
## 2380 009 Kilfree  
## 2381 026 Kilglass  
## 2382 010 Killadoon  
## 2383 011 Killaraght  
## 2384 052 Kilmacowen  
## 2385 075 Kilmacteige  
## 2386 012 Kilmactranny  
## 2387 013 Kilshalvy  
## 2388 076 Kilturra  
## 2389 053 Knockaree  
## 2390 054 Lakeview  
## 2391 077 Leitrim  
## 2392 055 Lisconny  
## 2393 056 Lissadill East  
## 2394 057 Lissadill North  
## 2395 058 Lissadill West  
## 2396 079 Owenmore  
## 2397 028 Rathmacurkey  
## 2398 059 Riverstown  
## 2399 060 Rossinver East  
## 2400 061 Rossinver West  
## 2401 014 Shancough  
## 2402 029 Skreen  
## 2403 003 Sligo West  
## 2404 080 Streamstown  
## 2405 081 Temple  
## 2406 030 Templeboy North  
## 2407 015 Templevanny  
## 2408 082 Tobercurry  
## 2409 032 Toberpatrick East  
## 2410 033 Toberpatrick West  
## 2411 016 Toomour  
## 2412 002 Sligo North  
## 2413 001 Sligo East  
## 2414 024 Abington  
## 2415 025 Aghnameadle  
## 2416 005 Aglishcloghane  
## 2417 140 Anner  
## 2418 026 Ardcrony  
## 2419 117 Ardfinnan  
## 2420 093 Ardmayle  
## 2421 094 Ardsallagh  
## 2422 027 Ballina  
## 2423 141 Ballingarry  
## 2424 006 Ballingarry  
## 2425 118 Ballybacon  
## 2426 061 Ballycahill  
## 2427 153 Ballycarron  
## 2428 132 Ballyclerahan  
## 2429 028 Ballygibbon  
## 2430 154 Ballygriffin  
## 2431 155 Ballykisteen  
## 2432 007 Ballylusky  
## 2433 029 Ballymackey  
## 2434 062 Ballymurreen  
## 2435 030 Ballynaclogh  
## 2436 142 Ballyphilip  
## 2437 119 Ballyporeen  
## 2438 095 Ballysheehan  
## 2439 156 Bansha  
## 2440 031 Birdhill  
## 2441 052 Borrisnafarney  
## 2442 053 Borrisnoe  
## 2443 008 Borrisokane  
## 2444 063 Borrisoleigh  
## 2445 054 Bourney East  
## 2446 055 Bourney West  
## 2447 157 Bruis  
## 2448 143 Buolick  
## 2449 032 Burgesbeg  
## 2450 120 Burncourt  
## 2451 121 Caher  
## 2452 158 Cappagh  
## 2453 089 Carrick-on-Suir Rural  
## 2454 083 Carrick-on-Suir Urban  
## 2455 082 Carrickbeg Urban  
## 2456 009 Carrig  
## 2457 033 Carrigatogher  
## 2458 096 Cashel Rural  
## 2459 084 Cashel Urban  
## 2460 034 Castletown  
## 2461 122 Clogheen  
## 2462 097 Clogher  
## 2463 010 Cloghjordan  
## 2464 011 Cloghprior  
## 2465 012 Clohaskin  
## 2466 159 Clonbeg  
## 2467 098 Cloneen  
## 2468 133 Clonmel Rural  
## 2469 086 Clonmel West Urban  
## 2470 099 Clonoulty East  
## 2471 100 Clonoulty West  
## 2472 101 Colman  
## 2473 123 Coolagarranroe  
## 2474 102 Cooleagh  
## 2475 144 Crohane  
## 2476 160 Cullen  
## 2477 161 Curraheen  
## 2478 035 Derrycastle  
## 2479 124 Derrygrath  
## 2480 036 Dolla  
## 2481 162 Donohill  
## 2482 103 Drangan  
## 2483 064 Drom  
## 2484 163 Drumwood  
## 2485 164 Emly  
## 2486 145 Farranrory  
## 2487 146 Fennor  
## 2488 013 Finnoe  
## 2489 065 Foilnaman  
## 2490 105 Gaile  
## 2491 090 Garrangibbon  
## 2492 165 Glengar  
## 2493 066 Glenkeen  
## 2494 166 Golden  
## 2495 067 Gortkelly  
## 2496 106 Graigue  
## 2497 014 Graigue  
## 2498 107 Greystown  
## 2499 068 Holycross  
## 2500 069 Inch  
## 2501 134 Inishlounaght  
## 2502 015 Kilbarron  
## 2503 135 Kilcash  
## 2504 038 Kilcomenty  
## 2505 125 Kilcommon  
## 2506 147 Kilcooly  
## 2507 126 Kilcoran  
## 2508 167 Kilfeakle  
## 2509 039 Kilkeary  
## 2510 168 Killadriffe  
## 2511 056 Killavinoge  
## 2512 057 Killea  
## 2513 108 Killeenasteena  
## 2514 109 Killenaule  
## 2515 040 Killoscully  
## 2516 041 Kilmore  
## 2517 169 Kilmucklin  
## 2518 091 Kilmurry  
## 2519 042 Kilnaneave  
## 2520 043 Kilnarath  
## 2521 110 Kilpatrick  
## 2522 070 Kilrush  
## 2523 138 Kiltinan  
## 2524 148 Kilvemnon  
## 2525 044 Knigh  
## 2526 111 Knockgraffon  
## 2527 046 Latteragh  
## 2528 170 Lattin  
## 2529 139 Lisronagh  
## 2530 071 Littleton  
## 2531 072 Longfordpass  
## 2532 016 Lorrha East  
## 2533 017 Lorrha West  
## 2534 073 Loughmoe  
## 2535 112 Magorban  
## 2536 018 Mertonhall  
## 2537 149 Modeshil  
## 2538 047 Monsea  
## 2539 127 Mortlestown  
## 2540 074 Moyaliff  
## 2541 075 Moycarky  
## 2542 076 Moyne  
## 2543 150 Mullinahone  
## 2544 048 Nenagh Rural  
## 2545 002 Nenagh West Urban  
## 2546 151 New Birmingham  
## 2547 128 Newcastle  
## 2548 049 Newport  
## 2549 092 Newtown  
## 2550 113 Nodstown  
## 2551 114 Oughterleague  
## 2552 115 Peppardstown  
## 2553 152 Poyntstown  
## 2554 077 Rahelty  
## 2555 019 Rathcabban  
## 2556 171 Rathlynin  
## 2557 058 Rathnaveoge  
## 2558 020 Redwood  
## 2559 021 Riverstown  
## 2560 172 Rodus  
## 2561 059 Roscrea  
## 2562 173 Shronell  
## 2563 174 Solloghodbeg  
## 2564 050 Templederry  
## 2565 003 Templemore  
## 2566 175 Templeneiry  
## 2567 078 Templetouhy  
## 2568 022 Terryglass  
## 2569 176 Thomastown  
## 2570 079 Thurles Rural  
## 2571 004 Thurles Urban  
## 2572 060 Timoney  
## 2573 087 Tipperary East Urban  
## 2574 177 Tipperary Rural  
## 2575 088 Tipperary West Urban  
## 2576 129 Tubbrid  
## 2577 130 Tullaghmelan  
## 2578 131 Tullaghorton  
## 2579 116 Tullamain  
## 2580 080 Twomileborris  
## 2581 081 Upperchurch  
## 2582 023 Uskane  
## 2583 051 Youghalarra  
## 2584 104 Fethard  
## 2585 085 Clonmel East Urban  
## 2586 001 Nenagh East Urban  
## 2587 037 Annestown  
## 2588 019 Aird Mhór  
## 2589 085 Ardmore  
## 2590 053 Ballyduff  
## 2591 003 Ballydurn  
## 2592 054 Ballyhane  
## 2593 086 Ballyheeny  
## 2594 055 Ballyin  
## 2595 038 Ballylaneen  
## 2596 013 Ballymacarbry  
## 2597 020 Baile Mhac Airt  
## 2598 070 Ballynakill (part)  
## 2599 056 Ballynamult  
## 2600 057 Ballysaggartmore  
## 2601 021 Bohadoon  
## 2602 022 Cappagh  
## 2603 058 Cappoquin  
## 2604 004 Carrickbeg Rural  
## 2605 039 Carrigcastle  
## 2606 023 Carriglea  
## 2607 059 Castlerichard  
## 2608 087 Clashmore  
## 2609 005 Clonea  
## 2610 024 Clonea  
## 2611 025 Colligan  
## 2612 040 Comeragh  
## 2613 026 Coumaraglin  
## 2614 027 Dromana  
## 2615 028 Dromore  
## 2616 071 Drumcannon  
## 2617 060 Drumroe  
## 2618 001 Dungarvan No. 1 Urban  
## 2619 002 Dungarvan No. 2 Urban  
## 2620 029 Dungarvan Rural  
## 2621 041 Dunhill  
## 2622 072 Faithlegg (part)  
## 2623 006 Fenoagh  
## 2624 042 Fews  
## 2625 043 Fox's Castle  
## 2626 044 Gardenmorris  
## 2627 045 Georgestown  
## 2628 007 Glen  
## 2629 088 Glenwilliam  
## 2630 061 Gortnapeaky  
## 2631 014 Graignagower  
## 2632 089 Grallagh  
## 2633 090 Grange  
## 2634 015 Gurteen  
## 2635 073 Islandikane  
## 2636 030 Keereen  
## 2637 074 Kilbarry (part)  
## 2638 046 Kilbarrymeaden  
## 2639 062 Kilcockan  
## 2640 075 Killea  
## 2641 076 Killoteran  
## 2642 077 Kilmacleague  
## 2643 016 Kilmacomma  
## 2644 047 Kilmacthomas  
## 2645 078 Kilmeadan  
## 2646 008 Kilmeadan  
## 2647 017 Kilronan  
## 2648 063 Kilwatermoy East  
## 2649 064 Kilwatermoy West  
## 2650 091 Kinsalebeg  
## 2651 031 Knockaunbrandaun  
## 2652 048 Knockmahon  
## 2653 065 Lismore Rural  
## 2654 067 Mocollop  
## 2655 068 Modelligo  
## 2656 032 Modelligo  
## 2657 009 Mothel  
## 2658 049 Mountkennedy  
## 2659 033 Mountstuart  
## 2660 079 Newcastle  
## 2661 050 Newtown  
## 2662 080 Pembrokestown  
## 2663 010 Portlaw  
## 2664 011 Rathgormuck  
## 2665 081 Rathmoylan  
## 2666 082 Reisk  
## 2667 034 An Rinn  
## 2668 012 Ross  
## 2669 035 Seskinan  
## 2670 018 St. Mary's  
## 2671 051 Stradbally  
## 2672 069 Tallow  
## 2673 092 Templemichael  
## 2674 052 Tinnasaggart  
## 2675 066 Lismore Urban  
## 2676 083 Tramore  
## 2677 036 Whitechurch  
## 2678 084 Woodstown  
## 2679 001 Ballybeg North  
## 2680 003 Ballybricken West  
## 2681 004 Ballymaclode  
## 2682 005 Ballynakill  
## 2683 007 Ballytruckle  
## 2684 008 Bilberry  
## 2685 009 Centre A  
## 2686 011 Cleaboy  
## 2687 012 Custom House A  
## 2688 013 Custom House B  
## 2689 014 Farranshoneen  
## 2690 015 Ferrybank  
## 2691 016 Gracedieu  
## 2692 018 Grange South  
## 2693 019 Grange Upper  
## 2694 020 Kilbarry  
## 2695 021 Kingsmeadow  
## 2696 022 Larchville  
## 2697 023 Lisduggan  
## 2698 024 Military Road  
## 2699 025 Morrisson's Avenue East  
## 2700 026 Morrisson's Avenue West  
## 2701 027 Morrisson's Road  
## 2702 028 Mount Sion  
## 2703 029 Newport's Square  
## 2704 030 Newtown  
## 2705 031 Park  
## 2706 032 Poleberry  
## 2707 033 Roanmore  
## 2708 034 Shortcourse  
## 2709 035 Slievekeale  
## 2710 036 The Glen  
## 2711 037 Ticor North  
## 2712 038 Ticor South  
## 2713 017 Grange North  
## 2714 053 Ardnaglew  
## 2715 018 Ardnagragh  
## 2716 001 Athlone East Urban  
## 2717 003 Athlone East Rural  
## 2718 002 Athlone West Urban  
## 2719 004 Auburn  
## 2720 054/085 Ballinalack/Lackan  
## 2721 034 Ballinlough  
## 2722 056 Ballymorin  
## 2723 005 Ballybroder  
## 2724 035 Ballyhealy  
## 2725 055 Ballykilmore  
## 2726 019 Ballymore  
## 2727 057 Ballynagore  
## 2728 036 Ballynaskeagh  
## 2729 006 Bellanalack  
## 2730 058 Belvidere  
## 2731 026 Boherquill  
## 2732 037 Bracklin  
## 2733 007 Carn  
## 2734 059 Carrick  
## 2735 060 Castle  
## 2736 008 Castledaly  
## 2737 061 Castlelost  
## 2738 062 Castletown  
## 2739 063 Churchtown  
## 2740 064 Cloghan  
## 2741 038 Clonarney  
## 2742 065 Clonfad  
## 2743 066 Clonlost  
## 2744 039 Collinstown  
## 2745 027 Coole  
## 2746 028 Coolure  
## 2747 040 Copperalley  
## 2748 041 Delvin  
## 2749 067 Derrymore  
## 2750 020 Doonis  
## 2751 021 Drumraney  
## 2752 068 Dysart  
## 2753 069 Emper  
## 2754 070 Enniscoffey  
## 2755 042 Faughalstown  
## 2756 029 Finnea  
## 2757 043 Fore East  
## 2758 044 Fore West  
## 2759 071 Gaybrook  
## 2760 009 Glassan  
## 2761 072 Glenlough  
## 2762 030 Glore  
## 2763 073 Greenpark  
## 2764 074 Griffinstown  
## 2765 075 Heathstown  
## 2766 045 Hilltown  
## 2767 076 Hopestown  
## 2768 077 Huntingdon  
## 2769 078 Jamestown  
## 2770 079 Kilbeggan  
## 2771 080 Kilbixy  
## 2772 046 Kilcumny  
## 2773 010 Kilcumreragh  
## 2774 081 Killare  
## 2775 011 Killinure  
## 2776 047 Killua  
## 2777 082 Killucan  
## 2778 048 Killulagh  
## 2779 049 Kilpatrick  
## 2780 083 Kinnegad  
## 2781 050 Kinturk  
## 2782 031 Knockarrow  
## 2783 084 Knockdrim  
## 2784 086 Lauree  
## 2785 087 Middleton  
## 2786 012 Moate  
## 2787 013 Mount Temple  
## 2788 014 Moydrum  
## 2789 015 Muckanagh  
## 2790 089 Mullingar Rural  
## 2791 091 Mullingar South Urban  
## 2792 092 Multyfarnham  
## 2793 093 Newtown  
## 2794 022 Noughaval  
## 2795 094 Owel  
## 2796 023 Piercetown  
## 2797 095 Portloman  
## 2798 096 Raharney  
## 2799 097 Rahugh  
## 2800 098 Rathconrath  
## 2801 032 Rathowen  
## 2802 051 Riverdale  
## 2803 052 Rosmead  
## 2804 099 Russellstown  
## 2805 100 Skeagh  
## 2806 101 Sonna  
## 2807 102 Stonehall  
## 2808 103 Streamstown  
## 2809 033 Street  
## 2810 104 Taghmon  
## 2811 024 Templepatrick  
## 2812 016 Tubbrit  
## 2813 105 Tullaghan  
## 2814 017 Umma  
## 2815 025 Winetown  
## 2816 106 Woodland  
## 2817 090 Mullingar North Urban  
## 2818 065 Adamstown  
## 2819 039 Ardamine  
## 2820 092 Ardcavan  
## 2821 093 Ardcolm  
## 2822 094 Artramon  
## 2823 095 Aughwilliam  
## 2824 007 Ballindaggan  
## 2825 066 Ballyanne  
## 2826 041 Ballybeg  
## 2827 042 Ballycanew  
## 2828 008 Ballycarney  
## 2829 043 Ballyellis  
## 2830 044 Ballygarrett  
## 2831 067 Ballyhack  
## 2832 009 Ballyhoge  
## 2833 010 Ballyhuskard  
## 2834 045 Ballylarkin  
## 2835 096 Ballymitty  
## 2836 011 Ballymore  
## 2837 046 Ballynestragh  
## 2838 040 Balloughter  
## 2839 012 Ballyvaldon  
## 2840 097 Bannow  
## 2841 068 Barrack Village  
## 2842 069 Barronstown  
## 2843 013 Bolaboy  
## 2844 014 Bree  
## 2845 098 Bridgetown  
## 2846 047 Cahore  
## 2847 070 Carnagh  
## 2848 099 Carrick  
## 2849 071 Carrickbyrne  
## 2850 017 Castle Ellis  
## 2851 015 Castleboro  
## 2852 018 Castle Talbot  
## 2853 072 Clongeen  
## 2854 073 Clonleigh  
## 2855 019 Clonroche  
## 2856 048 Coolgreany  
## 2857 049 Courtown  
## 2858 100 Drinagh  
## 2859 101 Duncormick  
## 2860 074 Dunmain  
## 2861 020 Edermine  
## 2862 021 Enniscorthy Rural  
## 2863 001 Enniscorthy Urban  
## 2864 022 Ferns  
## 2865 075 Fethard  
## 2866 050 Ford  
## 2867 102 Forth  
## 2868 103 Glynn  
## 2869 051 Gorey Rural  
## 2870 052 Gorey Urban  
## 2871 104 Harperstown  
## 2872 105 Harristown  
## 2873 076 Horetown  
## 2874 053 Huntingtown  
## 2875 077 Inch  
## 2876 023 Kilbora  
## 2877 106 Kilbride  
## 2878 054 Kilcomb  
## 2879 024 Kilcormick  
## 2880 107 Kilcowan  
## 2881 078 Kilgarvan  
## 2882 055 Kilgorman  
## 2883 108 Killag  
## 2884 025 Killann  
## 2885 056 Killenagh  
## 2886 079 Killesk  
## 2887 057 Killincooly  
## 2888 109 Killinick  
## 2889 027 Killoughrum  
## 2890 110 Killurin  
## 2891 026 Kilmallock  
## 2892 080 Kilmokea  
## 2893 111 Kilmore  
## 2894 058 Kilnahue  
## 2895 112 Kilpatrick  
## 2896 016 Castledockrell  
## 2897 028 Kilrush  
## 2898 113 Kilscoran  
## 2899 029 Kiltealy  
## 2900 114 Lady's Island  
## 2901 059 Limerick  
## 2902 030 Marshalstown  
## 2903 115 Mayglass  
## 2904 060 Monamolin  
## 2905 061 Monaseed  
## 2906 031 Moyacomb  
## 2907 082 New Ross Rural  
## 2908 002 New Ross Urban  
## 2909 081 Newbawn  
## 2910 116 Newcastle  
## 2911 032 Newtownbarry  
## 2912 083 Oldcourt  
## 2913 084 Old Ross  
## 2914 117 Rathaspick  
## 2915 085 Rathroe  
## 2916 086 Rochestown  
## 2917 003 Rosbercon Urban  
## 2918 033 Rossard  
## 2919 118 Rosslare  
## 2920 062 Rossminoge  
## 2921 119 St. Helen's  
## 2922 034 St. Mary's  
## 2923 120 Tacumshin  
## 2924 121 Taghmon  
## 2925 087 Templeludigan  
## 2926 088 Templetown  
## 2927 035 The Harrow  
## 2928 036 The Leap  
## 2929 037 Tinnacross  
## 2930 089 Tintern  
## 2931 038 Tombrack  
## 2932 122 Tomhaggard  
## 2933 063 Wells  
## 2934 123 Wexford Rural  
## 2935 004 Wexford No. 1 Urban  
## 2936 124 Whitechurch  
## 2937 090 Whitechurch  
## 2938 091 Whitemoor  
## 2939 064 Wingfield  
## 2940 006 Wexford No. 3 Urban  
## 2941 005 Wexford No. 2 Urban  
## 2942 067 Aghowle  
## 2943 037 Altidore  
## 2944 038 Arklow Rural  
## 2945 001 Arklow No. 1 Urban  
## 2946 039 Aughrim  
## 2947 041 Ballinaclash  
## 2948 042 Ballinacor  
## 2949 043 Ballinderry  
## 2950 068 Ballingate  
## 2951 069 Ballinglen  
## 2952 008 Ballinguile  
## 2953 044 Ballyarthur  
## 2954 070 Ballybeg  
## 2955 045 Ballycullen  
## 2956 009 Baltinglass  
## 2957 010 Blessington  
## 2958 005 Bray No. 3  
## 2959 046 Brockagh  
## 2960 011 Burgage  
## 2961 047 Calary  
## 2962 071 Carnew  
## 2963 072 Coolattin  
## 2964 073 Coolballintaggart  
## 2965 074 Coolboy  
## 2966 048 Cronebane  
## 2967 075 Cronelea  
## 2968 032 Delgany  
## 2969 012 Donaghmore  
## 2970 013 Donard  
## 2971 049 Dunganstown East  
## 2972 050 Dunganstown South  
## 2973 051 Dunganstown West  
## 2974 014 Dunlavin  
## 2975 015 Eadestown  
## 2976 052 Ennereilly  
## 2977 033 Enniskerry  
## 2978 053 Glendalough  
## 2979 054 Glenealy  
## 2980 034 Greystones  
## 2981 016 Hartstown  
## 2982 017 Hollywood  
## 2983 018 Humewood  
## 2984 019 Imael North  
## 2985 020 Imael South  
## 2986 076 Kilballyowen  
## 2987 021 Kilbride  
## 2988 055 Kilbride  
## 2989 056 Kilcoole  
## 2990 077 Killinure  
## 2991 057 Killiskey  
## 2992 035 Kilmacanoge  
## 2993 078 Kilpipe  
## 2994 058 Knockrath  
## 2995 022 Lackan  
## 2996 023 Lugglass  
## 2997 079 Money  
## 2998 059 Moneystown  
## 2999 060 Newcastle Lower  
## 3000 061 Newcastle Upper  
## 3001 062 Oldtown  
## 3002 040 Avoca  
## 3003 036 Powerscourt  
## 3004 080 Rath  
## 3005 024 Rathdangan  
## 3006 063 Rathdrum  
## 3007 025 Rathsallagh  
## 3008 081 Shillelagh  
## 3009 026 Stratford  
## 3010 027 Talbotstown  
## 3011 028 The Grange  
## 3012 082 Tinahely  
## 3013 029 Tober  
## 3014 030 Togher  
## 3015 064 Togher  
## 3016 065 Trooperstown  
## 3017 031 Tuckmill  
## 3018 066 Wicklow Rural  
## 3019 007 Wicklow Urban  
## 3020 002 Arklow No. 2 Urban  
## 3021 003 Bray No. 1  
## 3022 004 Bray No. 2  
## 3023 006 Rathmichael (Bray)  
## 3024 001 Airport  
## 3025 002 Balbriggan Rural  
## 3026 003 Balbriggan Urban  
## 3027 004 Baldoyle  
## 3028 005 Balgriffin  
## 3029 001 Ballinascorney  
## 3030 006 Ballinteer-Woodpark  
## 3031 001 Ballinteer-Broadford  
## 3032 002 Ballinteer-Ludford  
## 3033 003 Ballinteer-Marley  
## 3034 004 Ballinteer-Meadowbroads  
## 3035 005 Ballinteer-Meadowmount  
## 3036 002 Ballyboden  
## 3037 006 Ballyboghil  
## 3038 007 Ballybrack  
## 3039 007 Balscadden  
## 3040 012 Blackrock-Monkstown  
## 3041 014 Blackrock-Seapoint  
## 3042 008 Blackrock-Booterstown  
## 3043 009 Blackrock-Carysfort  
## 3044 010 Blackrock-Central  
## 3045 011 Blackrock-Glenomena  
## 3046 013 Blackrock-Newpark  
## 3047 015 Blackrock-Stradbrook  
## 3048 016 Blackrock-Templehill  
## 3049 017 Blackrock-Williamstown  
## 3050 008 Blanchardstown-Abbotstown  
## 3051 009 Blanchardstown-Blakestown  
## 3052 010 Blanchardstown-Coolmine  
## 3053 011 Blanchardstown-Corduff  
## 3054 012 Blanchardstown-Delwood  
## 3055 013 Blanchardstown-Mulhuddart  
## 3056 014 Blanchardstown-Roselawn  
## 3057 015 Blanchardstown-Tyrrelstown  
## 3058 003 Bohernabreena  
## 3059 018 Cabinteely-Granitefield  
## 3060 019 Cabinteely-Kilbogget  
## 3061 020 Cabinteely-Loughlinstown  
## 3062 021 Cabinteely-Pottery  
## 3063 016 Castleknock-Knockmaroon  
## 3064 017 Castleknock-Park  
## 3065 022 Churchtown-Castle  
## 3066 023 Churchtown-Landscape  
## 3067 024 Churchtown-Nutgrove  
## 3068 025 Churchtown-Orwell  
## 3069 026 Churchtown-Woodlawn  
## 3070 004 Clondalkin-Ballymount  
## 3071 005 Clondalkin-Cappaghmore  
## 3072 006 Clondalkin-Dunawley  
## 3073 007 Clondalkin-Monastery  
## 3074 008 Clondalkin-Moorfield  
## 3075 009 Clondalkin-Rowlagh  
## 3076 010 Clondalkin Village  
## 3077 018 Clonmethan  
## 3078 029 Clonskeagh-Milltown  
## 3079 027 Clonskeagh-Belfield  
## 3080 028 Clonskeagh-Farranboley  
## 3081 030 Clonskeagh-Roebuck  
## 3082 031 Clonskeagh-Windy Arbour  
## 3083 035 Dalkey Hill  
## 3084 036 Dalkey Upper  
## 3085 032 Dalkey-Avondale  
## 3086 033 Dalkey-Bullock  
## 3087 034 Dalkey-Coliemore  
## 3088 019 Donabate  
## 3089 020 Dubber  
## 3090 042 Dún Laoghaire-East Central  
## 3091 043 Dún Laoghaire-Glasthule  
## 3092 044 Dún Laoghaire-Glenageary  
## 3093 045 Dún Laoghaire-Monkstown Farm  
## 3094 046 Dún Laoghaire-Mount Town  
## 3095 047 Dún Laoghaire-Sallynoggin East  
## 3096 048 Dún Laoghaire-Sallynoggin South  
## 3097 049 Dún Laoghaire-Sallynoggin West  
## 3098 051 Dún Laoghaire-Salthill  
## 3099 050 Dún Laoghaire-Sandycove  
## 3100 052 Dún Laoghaire-West Central  
## 3101 037 Dundrum-Balally  
## 3102 038 Dundrum-Kilmacud  
## 3103 039 Dundrum-Sandyford  
## 3104 040 Dundrum-Sweetmount  
## 3105 041 Dundrum-Taney  
## 3106 011 Edmondstown  
## 3107 014 Firhouse Village  
## 3108 012 Firhouse-Ballycullen  
## 3109 013 Firhouse-Knocklyon  
## 3110 053 Foxrock-Beechpark  
## 3111 054 Foxrock-Carrickmines  
## 3112 055 Foxrock-Deans Grange  
## 3113 056 Foxrock-Torquay  
## 3114 021 Garristown  
## 3115 057 Glencullen  
## 3116 022 Hollywood  
## 3117 023 Holmpatrick  
## 3118 024 Howth  
## 3119 058 Killiney North  
## 3120 059 Killiney South  
## 3121 025 Kilsallaghan  
## 3122 026 Kinsaley  
## 3123 015 Lucan-Esker  
## 3124 016 Lucan Heights  
## 3125 027 Lucan North  
## 3126 017 Lucan-St. Helen's  
## 3127 028 Lusk  
## 3128 029 Malahide East  
## 3129 030 Malahide West  
## 3130 018 Newcastle  
## 3131 019 Palmerston Village  
## 3132 020 Palmerston West  
## 3133 031 Portmarnock North  
## 3134 032 Portmarnock South  
## 3135 021 Rathcoole  
## 3136 022 Rathfarnham-Ballyroan  
## 3137 023 Rathfarnham-Butterfield  
## 3138 024 Rathfarnham-Hermitage  
## 3139 025 Rathfarnham-St. Enda's  
## 3140 026 Rathfarnham Village  
## 3141 033 Rush  
## 3142 027 Saggart  
## 3143 060 Shankill-Rathmichael  
## 3144 061 Shankill-Rathsallagh  
## 3145 062 Shankill-Shanganagh  
## 3146 034 Skerries  
## 3147 063 Stillorgan-Deerpark  
## 3148 064 Stillorgan-Kilmacud  
## 3149 065 Stillorgan-Leopardstown  
## 3150 066 Stillorgan-Merville  
## 3151 067 Stillorgan-Mount Merrion  
## 3152 068 Stillorgan-Priory  
## 3153 035 Sutton  
## 3154 037 Swords-Glasmore  
## 3155 036 Swords-Forrest  
## 3156 038 Swords-Lissenhall  
## 3157 039 Swords-Seatown  
## 3158 040 Swords Village  
## 3159 028 Tallaght-Avonbeg  
## 3160 029 Tallaght-Belgard  
## 3161 030 Tallaght-Fettercairn  
## 3162 031 Tallaght-Glenview  
## 3163 032 Tallaght-Jobstown  
## 3164 033 Tallaght-Killinardan  
## 3165 034 Tallaght-Kilnamanagh  
## 3166 035 Tallaght-Kiltipper  
## 3167 036 Tallaght-Kingswood  
## 3168 037 Tallaght-Millbrook  
## 3169 038 Tallaght-Oldbawn  
## 3170 039 Tallaght-Springfield  
## 3171 040 Tallaght-Tymon  
## 3172 041 Templeogue-Cypress  
## 3173 042 Templeogue-Kimmage Manor  
## 3174 043 Templeogue-Limekiln  
## 3175 044 Templeogue-Orwell  
## 3176 045 Templeogue-Osprey  
## 3177 046 Templeogue Village  
## 3178 047 Terenure-Cherryfield  
## 3179 048 Terenure-Greentrees  
## 3180 049 Terenure-St. James  
## 3181 041 The Ward  
## 3182 069 Tibradden  
## 3183 042 Turnapin  
## 3184 001 Arran Quay A  
## 3185 002 Arran Quay B  
## 3186 003 Arran Quay C  
## 3187 004 Arran Quay D  
## 3188 005 Arran Quay E  
## 3189 006 Ashtown A  
## 3190 007 Ashtown B  
## 3191 008 Ayrfield  
## 3192 009 Ballybough A  
## 3193 010 Ballybough B  
## 3194 013 Ballygall C  
## 3195 011 Ballygall A  
## 3196 012 Ballygall B  
## 3197 014 Ballygall D  
## 3198 015 Ballymun A  
## 3199 016 Ballymun B  
## 3200 017 Ballymun C  
## 3201 018 Ballymun D  
## 3202 019 Ballymun E  
## 3203 020 Ballymun F  
## 3204 021 Beaumont A  
## 3205 022 Beaumont B  
## 3206 023 Beaumont C  
## 3207 024 Beaumont D  
## 3208 025 Beaumont E  
## 3209 026 Beaumont F  
## 3210 027 Botanic A  
## 3211 028 Botanic B  
## 3212 029 Botanic C  
## 3213 030 Cabra East A  
## 3214 031 Cabra East B  
## 3215 032 Cabra East C  
## 3216 033 Cabra West A  
## 3217 034 Cabra West B  
## 3218 035 Cabra West C  
## 3219 036 Cabra West D  
## 3220 094 Chapelizod  
## 3221 095 Cherry Orchard A  
## 3222 096 Carna  
## 3223 097 Cherry Orchard C  
## 3224 037 Clontarf East A  
## 3225 038 Clontarf East B  
## 3226 039 Clontarf East C  
## 3227 040 Clontarf East D  
## 3228 041 Clontarf East E  
## 3229 042 Clontarf West A  
## 3230 043 Clontarf West B  
## 3231 044 Clontarf West C  
## 3232 045 Clontarf West D  
## 3233 046 Clontarf West E  
## 3234 098 Crumlin A  
## 3235 099 Crumlin B  
## 3236 100 Crumlin C  
## 3237 101 Crumlin D  
## 3238 102 Crumlin E  
## 3239 103 Crumlin F  
## 3240 104 Decies  
## 3241 047 Drumcondra South A  
## 3242 048 Drumcondra South B  
## 3243 049 Drumcondra South C  
## 3244 105 Drumfinn  
## 3245 050 Edenmore  
## 3246 051 Finglas North A  
## 3247 052 Finglas North B  
## 3248 053 Finglas North C  
## 3249 054 Finglas South A  
## 3250 055 Finglas South B  
## 3251 056 Finglas South C  
## 3252 057 Finglas South D  
## 3253 058 Grace Park  
## 3254 059 Grange A  
## 3255 060 Grange B  
## 3256 061 Grange C  
## 3257 062 Grange D  
## 3258 063 Grange E  
## 3259 064 Harmonstown A  
## 3260 065 Harmonstown B  
## 3261 106 Inchicore A  
## 3262 107 Inchicore B  
## 3263 066 Inns Quay A  
## 3264 067 Inns Quay B  
## 3265 068 Inns Quay C  
## 3266 108 Kilmainham A  
## 3267 109 Kilmainham B  
## 3268 110 Kilmainham C  
## 3269 071 Kilmore C  
## 3270 072 Kilmore D  
## 3271 069 Kilmore A  
## 3272 070 Kilmore B  
## 3273 111 Kimmage A  
## 3274 112 Kimmage B  
## 3275 113 Kimmage C  
## 3276 114 Kimmage D  
## 3277 115 Kimmage E  
## 3278 116 Kylemore  
## 3279 117 Mansion House A  
## 3280 118 Mansion House B  
## 3281 119 Merchants Quay A  
## 3282 120 Merchants Quay B  
## 3283 121 Merchants Quay C  
## 3284 122 Merchants Quay D  
## 3285 123 Merchants Quay E  
## 3286 124 Merchants Quay F  
## 3287 073 Mountjoy A  
## 3288 074 Mountjoy B  
## 3289 075 North City  
## 3290 076 North Dock A  
## 3291 077 North Dock B  
## 3292 078 North Dock C  
## 3293 125 Pembroke East A  
## 3294 126 Pembroke East B  
## 3295 127 Pembroke East C  
## 3296 128 Pembroke East D  
## 3297 129 Pembroke East E  
## 3298 130 Pembroke West A  
## 3299 131 Pembroke West B  
## 3300 132 Pembroke West C  
## 3301 079 Phoenix Park  
## 3302 082 Priorswood C  
## 3303 083 Priorswood D  
## 3304 080 Priorswood A  
## 3305 081 Priorswood B  
## 3306 084 Priorswood E  
## 3307 085 Raheny-Foxfield  
## 3308 086 Raheny-Greendale  
## 3309 087 Raheny-St. Assam  
## 3310 133 Rathfarnham  
## 3311 134 Rathmines East A  
## 3312 135 Rathmines East B  
## 3313 136 Rathmines East C  
## 3314 137 Rathmines East D  
## 3315 138 Rathmines West A  
## 3316 139 Rathmines West B  
## 3317 140 Rathmines West C  
## 3318 141 Rathmines West D  
## 3319 142 Rathmines West E  
## 3320 143 Rathmines West F  
## 3321 088 Rotunda A  
## 3322 089 Rotunda B  
## 3323 144 Royal Exchange A  
## 3324 145 Royal Exchange B  
## 3325 146 St. Kevin's  
## 3326 147 South Dock  
## 3327 148 Terenure A  
## 3328 149 Terenure B  
## 3329 150 Terenure C  
## 3330 151 Terenure D  
## 3331 152 Ushers A  
## 3332 153 Ushers B  
## 3333 154 Ushers C  
## 3334 155 Ushers D  
## 3335 156 Ushers E  
## 3336 157 Ushers F  
## 3337 158 Walkinstown A  
## 3338 159 Walkinstown B  
## 3339 160 Walkinstown C  
## 3340 090 Whitehall A  
## 3341 091 Whitehall B  
## 3342 092 Whitehall C  
## 3343 093 Whitehall D  
## 3344 161 Wood Quay A  
## 3345 162 Wood Quay B  
## 3346 039 Rathornan  
## 3347 084/082 Dunmakeever/Derrynananta  
## 3348 086/087 Kinninagh/Teebane  
## 3349 025/028 Pedara Vohers/Tircahan  
## 3350 020/017 Glenroe/Ballyeighter  
## 3351 128/123 Corlea/Cahermurphy  
## 3352 011 Gleninagh  
## 3353 132/133 Inishcaltra North/Inishcaltra South  
## 3354 097 Moveen  
## 3355 033/046 Bantry Rural/Whiddy  
## 3356 078 Bishopstown (part)  
## 3357 312 Crookhaven  
## 3358 314 Dunmanus  
## 3359 038 Glanlough  
## 3360 190 Kinure  
## 3361 319 Toormore  
## 3362 033 Caisleán na dTuath  
## 3363 054 Inis Caoil  
## 3364 056 Cill Ghabhlaigh  
## 3365 062 Málainn Bhig  
## 3366 127 Rosnakill  
## 3367 026 Cushkillary  
## 3368 027/028 Derrycunlagh/Derrylea  
## 3369 029 Doonloughan  
## 3370 032 Inishbofin  
## 3371 129/126 Marblehill/Loughatorick  
## 3372 009/020 Ceannúig/Máistir Gaoithe  
## 3373 059 Reen  
## 3374 023 Toghroinn Fhíonáin  
## 3375 061 Tahilla  
## 3376 019 Harristown  
## 3377 022 Kilberry  
## 3378 085 Tullaherin  
## 3379 087 Woolengrange  
## 3380 079 Ballybrophy  
## 3381 045/046 Brisha/Cappard  
## 3382 027/028 Aghalateeve/Aghanlish  
## 3383 029/032 Melvin/Aghavoghill  
## 3384 041/034 Garvagh/Arigna  
## 3385 017/016 Drumreilly West/Drumreilly East  
## 3386 007/011 Greaghlass/Stralongford  
## 3387 075 Rinn  
## 3388 024/035 Firry/Newgrove  
## 3389 129 Ballycroy South  
## 3390 013 Béal Deirg Mór  
## 3391 150/130 Owennadornaun/Bundorragha  
## 3392 139 Erriff  
## 3393 058/065 Glenco/Sheskin  
## 3394 063 Na Monga  
## 3395 043 Killynenagh  
## 3396 043/034 Esker/Ballaghassaan  
## 3397 047/025 Lough Allen/Altagowlan  
## 3398 045 Kilmore  
## 3399 046/048 Lisgarve/Mantua  
## 3400 065 Annagh  
## 3401 067/069 Branchfield/Carrownaskeagh  
## 3402 031/027 Templeboy South/Mullagheruse  
## 3403 037/045 Greenhall/Lackagh  
## 3404 137/136 Kilsheelan/Killaloan  
## 3405 002/006 Ballybeg South/Ballynaneashagh  
## 3406 010 Centre B

ED <- countydata %>% group\_by(Planning.Region) #Grouping based on Planning Region Attribute  
ED

## # A tibble: 18,486 x 40  
## # Groups: Planning.Region [5]  
## Datacode SA\_NAME GEOGID Electoral.Divis~ Electoral.Divis~ County  
## \* <int> <fct> <fct> <fct> <fct> <fct>   
## 1 48 170010~ A0170~ 1011 011 Agha Carlow  
## 2 49 170020~ A0170~ 1012 012 Ballinacarr~ Carlow  
## 3 50 170020~ A0170~ 1012 012 Ballinacarr~ Carlow  
## 4 51 170020~ A0170~ 1012 012 Ballinacarr~ Carlow  
## 5 52 170030~ A0170~ 1013 013 Ballintemple Carlow  
## 6 53 170030~ A0170~ 1013 013 Ballintemple Carlow  
## 7 54 170040~ A0170~ 1014 014 Ballon Carlow  
## 8 55 170040~ A0170~ 1014 014 Ballon Carlow  
## 9 56 170040~ A0170~ 1014 014 Ballon Carlow  
## 10 57 170050~ A0170~ 1015 015 Ballyellin Carlow  
## # ... with 18,476 more rows, and 34 more variables: NUTS\_III <fct>,  
## # NUTS\_II <fct>, Planning.Region <fct>, On\_Foot\_2011 <int>,  
## # Bicycle\_2011 <int>, Bus\_Minibus\_Coach\_2011 <int>,  
## # Train\_Dart\_Luas\_2011 <int>, Motorcycle\_Scooter\_2011 <int>,  
## # Car\_Driver\_2011 <int>, Car\_Passenger\_2011 <int>, Van\_2011 <int>,  
## # Other\_2011 <int>, Soft\_Modes\_Comb\_2011 <int>,  
## # Public\_Transport\_Comb\_2011 <int>, Private\_Transport\_Comb\_2011 <int>,  
## # Mean\_Total <int>, Before\_0630\_2011 <int>, During\_0630\_0700\_2011 <int>,  
## # During\_0701\_0730\_2011 <int>, During\_0731\_8000\_2011 <int>,  
## # During\_0801\_0830\_2011 <int>, During\_0831\_0900\_2011 <int>,  
## # During\_0901\_0930\_2011 <int>, After\_0930\_2011 <int>,  
## # Not\_Stated\_2011 <int>, Total\_Time <int>, Under\_15\_mins\_2011 <int>,  
## # Quarter\_To\_Under\_Half\_Hour\_2011 <int>,  
## # Half\_Hour\_To\_Under\_Three\_Quarter\_Hours\_2011 <int>,  
## # Three\_Quarter\_Hours\_To\_Under\_One\_Hour\_2011 <int>,  
## # One\_Hour\_To\_Under\_One\_Hour\_Thirty\_Mins\_2011 <int>,  
## # One\_And\_Half\_Hours\_And\_Over\_2011 <int>, Not\_Stated\_2011.1 <int>,  
## # Journey\_Total <int>

ED1 <- ED %>% distinct(Electoral.Division.Name)#Electoral division on distinct Electoral division name  
ED <- ED %>% distinct(Planning.Region) #  
ED1

## # A tibble: 3,415 x 2  
## # Groups: Planning.Region [5]  
## Electoral.Division.Name Planning.Region  
## <fct> <fct>   
## 1 011 Agha Southern   
## 2 012 Ballinacarrig Southern   
## 3 013 Ballintemple Southern   
## 4 014 Ballon Southern   
## 5 015 Ballyellin Southern   
## 6 016 Ballymoon Southern   
## 7 049 Ballymurphy Southern   
## 8 017 Borris Southern   
## 9 018 Burton Hall Southern   
## 10 019 Carlow Rural Southern   
## # ... with 3,405 more rows

ED <- ED[!apply(ED == "", 1, all),]  
ED

## # A tibble: 4 x 1  
## # Groups: Planning.Region [4]  
## Planning.Region   
## <fct>   
## 1 Southern   
## 2 South   
## 3 North and West   
## 4 Eastern and Midlands

#Error in the for loop below: Comparison types dont match  
#for(x in 1:4){  
 # sol\_var = countydata %>% filter(countydata$Planning.Region == ED[1]) %>% group\_by(Electoral.Division.Name) %>% summarise\_all()  
#}

To solve the question, we first assign Dist\_ED variable and ED variable with the dataset values for which we have distinct electoral division name and planning region.

The ED1 variable will contain the subset ED for distinct electoral division name. We again reassign ED with subset ED for distinct planning region.

We use for loop to navigate through the dataset and filter out for planning region and group by using electoral division names. To end it, we summarise it all.

##Reflections

\*Analysis -> Cleaning data using tidyr. Renaming using for-loops and dplyr -> Outlier removal using boxplot(no usage of ggplot2 boxplot) -> Statistical techniques such as mean,median and modes used. Aggregate functions, sum functions are the other mathematical functions used. -> Sequential functions, arrays and lists for storage.

\*Challenges met -> Order matters while using dplyr functions. There will be logical errors otherwise. -> Tedious process of renaming columns which differs in the checking word such as “College\_” and “During\_”. ->ggplot2 library functions slow for such a data. The right values needs to be taken and appropriate steps should be followed sequence wise. ->For question 3 and question 6 we use a two-method check-recheck option to test for the credibility as well. The purpose of rechecking was because of multiple warnings leading to errors. Limited to only warnings.

\*Assumptoins ->Omitting NA valued rows, which are less, seems to have no affect on the overall accuracy of the dataset. -> Outlier data value has no affect on the overall functioning.

\*Weakness ->Dataset with NA values leads to confusion as to when the values of the table might be useful and for what purpose. Omitting required data would be harmful in the overall picture. ->Explanation about the columns of the dataset. Data-cleaning would lead to change in the names of th columns and hence, extra case needs to be taken in the renaming of the columns while retaining meaning.