Carrifour Elvis IP-Project,Week 14

2022-04-03

## R Markdown

###A Study of Carrefour Marketing Strategies using Unsupervised Learning Techniques, Elvis Njoroge Week 14IP.

####Defining the question Revenue streams of any shopping giant are dependent on the marketing strategies employed by the marketing department. Carrefour, an internationally owned retail has approached a data scientist seeking to identify the best marketing strategy. The strategy must also yield the best marketing style excluding total price including tax. The investigation has split into four parts.

###Specifying the Question Unsupervised learning techniques will be used to predict the best marketing technique. The main objective targets an increase in sales.

###Defining the metrics of success. • Effectively cleaning our dataset. • Performing extensive exploratory data analysis where applicable. • Applying Dimensionality Reduction. • Selecting our features. • Applying Association rules. • Detecting anomalies in our data

####Recording the Experimental Design After defining the question, the loaded datasets will be subjected to data cleaning. Exploratory Data Analysis will define the relationship between some variables. The first dataset will be used to investigate Dimensionally Reduction Techniques (PCA) and Feature selection. The second dataset will be used to compile Association Rules predicting customer behavior. They will also be used to identify commonly shopped items. The last and final dataset will be subjected to Anomaly Detection.

###Data Validity The datasets have been compiled by Carrefour marketing team. Part 1 and 2 (<http://bit.ly/CarreFourDataset>, ) , Part 3, (<http://bit.ly/SupermarketDatasetII> ) and Part 4, (<http://bit.ly/CarreFourSalesDataset> ).

###Part 1 ###Dimensionalty reduction

#Installing the libraries needed

##Importing the libraries needed  
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

library(tidyr)  
library(lubridate)

##   
## Attaching package: 'lubridate'

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

## Loading the dataset

#Loading the dataset  
superm <- read.csv("http://bit.ly/CarreFourDataset")  
superm

## Invoice.ID Branch Customer.type Gender Product.line Unit.price  
## 1 750-67-8428 A Member Female Health and beauty 74.69  
## 2 226-31-3081 C Normal Female Electronic accessories 15.28  
## 3 631-41-3108 A Normal Male Home and lifestyle 46.33  
## 4 123-19-1176 A Member Male Health and beauty 58.22  
## 5 373-73-7910 A Normal Male Sports and travel 86.31  
## 6 699-14-3026 C Normal Male Electronic accessories 85.39  
## 7 355-53-5943 A Member Female Electronic accessories 68.84  
## 8 315-22-5665 C Normal Female Home and lifestyle 73.56  
## 9 665-32-9167 A Member Female Health and beauty 36.26  
## 10 692-92-5582 B Member Female Food and beverages 54.84  
## 11 351-62-0822 B Member Female Fashion accessories 14.48  
## 12 529-56-3974 B Member Male Electronic accessories 25.51  
## 13 365-64-0515 A Normal Female Electronic accessories 46.95  
## 14 252-56-2699 A Normal Male Food and beverages 43.19  
## 15 829-34-3910 A Normal Female Health and beauty 71.38  
## 16 299-46-1805 B Member Female Sports and travel 93.72  
## 17 656-95-9349 A Member Female Health and beauty 68.93  
## 18 765-26-6951 A Normal Male Sports and travel 72.61  
## 19 329-62-1586 A Normal Male Food and beverages 54.67  
## 20 319-50-3348 B Normal Female Home and lifestyle 40.30  
## 21 300-71-4605 C Member Male Electronic accessories 86.04  
## 22 371-85-5789 B Normal Male Health and beauty 87.98  
## 23 273-16-6619 B Normal Male Home and lifestyle 33.20  
## 24 636-48-8204 A Normal Male Electronic accessories 34.56  
## 25 549-59-1358 A Member Male Sports and travel 88.63  
## 26 227-03-5010 A Member Female Home and lifestyle 52.59  
## 27 649-29-6775 B Normal Male Fashion accessories 33.52  
## 28 189-17-4241 A Normal Female Fashion accessories 87.67  
## 29 145-94-9061 B Normal Female Food and beverages 88.36  
## 30 848-62-7243 A Normal Male Health and beauty 24.89  
## 31 871-79-8483 B Normal Male Fashion accessories 94.13  
## 32 149-71-6266 B Member Male Sports and travel 78.07  
## 33 640-49-2076 B Normal Male Sports and travel 83.78  
## 34 595-11-5460 A Normal Male Health and beauty 96.58  
## 35 183-56-6882 C Member Female Food and beverages 99.42  
## 36 232-16-2483 C Member Female Sports and travel 68.12  
## 37 129-29-8530 A Member Male Sports and travel 62.62  
## 38 272-65-1806 A Normal Female Electronic accessories 60.88  
## 39 333-73-7901 C Normal Female Health and beauty 54.92  
## 40 777-82-7220 B Member Male Home and lifestyle 30.12  
## 41 280-35-5823 B Member Female Home and lifestyle 86.72  
## 42 554-53-8700 C Member Male Home and lifestyle 56.11  
## 43 354-25-5821 B Member Female Sports and travel 69.12  
## 44 228-96-1411 C Member Female Food and beverages 98.70  
## 45 617-15-4209 C Member Male Health and beauty 15.37  
## 46 132-32-9879 B Member Female Electronic accessories 93.96  
## 47 370-41-7321 B Member Male Health and beauty 56.69  
## 48 727-46-3608 B Member Female Food and beverages 20.01  
## 49 669-54-1719 B Member Male Electronic accessories 18.93  
## 50 574-22-5561 C Member Female Fashion accessories 82.63  
## 51 326-78-5178 C Member Male Food and beverages 91.40  
## 52 162-48-8011 A Member Female Food and beverages 44.59  
## 53 616-24-2851 B Member Female Fashion accessories 17.87  
## 54 778-71-5554 C Member Male Fashion accessories 15.43  
## 55 242-55-6721 B Normal Male Home and lifestyle 16.16  
## 56 399-46-5918 C Normal Female Electronic accessories 85.98  
## 57 106-35-6779 A Member Male Home and lifestyle 44.34  
## 58 635-40-6220 A Normal Male Health and beauty 89.60  
## 59 817-48-8732 A Member Female Home and lifestyle 72.35  
## 60 120-06-4233 C Normal Male Electronic accessories 30.61  
## 61 285-68-5083 C Member Female Sports and travel 24.74  
## 62 803-83-5989 C Normal Male Home and lifestyle 55.73  
## 63 347-34-2234 B Member Female Sports and travel 55.07  
## 64 199-75-8169 A Member Male Sports and travel 15.81  
## 65 853-23-2453 B Member Male Health and beauty 75.74  
## 66 877-22-3308 A Member Male Health and beauty 15.87  
## 67 838-78-4295 C Normal Female Health and beauty 33.47  
## 68 109-28-2512 B Member Female Fashion accessories 97.61  
## 69 232-11-3025 A Normal Male Sports and travel 78.77  
## 70 382-03-4532 A Member Female Health and beauty 18.33  
## 71 393-65-2792 C Normal Male Food and beverages 89.48  
## 72 796-12-2025 C Normal Male Fashion accessories 62.12  
## 73 510-95-6347 B Member Female Food and beverages 48.52  
## 74 841-35-6630 C Normal Female Electronic accessories 75.91  
## 75 287-21-9091 A Normal Male Home and lifestyle 74.67  
## 76 732-94-0499 C Normal Female Electronic accessories 41.65  
## 77 263-10-3913 C Member Male Fashion accessories 49.04  
## 78 381-20-0914 A Member Female Fashion accessories 20.01  
## 79 829-49-1914 C Member Female Food and beverages 78.31  
## 80 756-01-7507 C Normal Female Health and beauty 20.38  
## 81 870-72-4431 C Normal Female Health and beauty 99.19  
## 82 847-38-7188 B Normal Female Food and beverages 96.68  
## 83 480-63-2856 C Normal Male Food and beverages 19.25  
## 84 787-56-0757 C Member Female Food and beverages 80.36  
## 85 360-39-5055 C Member Male Sports and travel 48.91  
## 86 730-50-9884 C Normal Female Sports and travel 83.06  
## 87 362-58-8315 C Normal Male Fashion accessories 76.52  
## 88 633-44-8566 A Member Male Food and beverages 49.38  
## 89 504-35-8843 A Normal Male Sports and travel 42.47  
## 90 318-68-5053 B Normal Female Health and beauty 76.99  
## 91 565-80-5980 C Member Female Home and lifestyle 47.38  
## 92 225-32-0908 C Normal Female Sports and travel 44.86  
## 93 873-51-0671 A Member Female Sports and travel 21.98  
## 94 152-08-9985 B Member Male Health and beauty 64.36  
## 95 512-91-0811 C Normal Male Health and beauty 89.75  
## 96 594-34-4444 A Normal Male Electronic accessories 97.16  
## 97 766-85-7061 B Normal Male Health and beauty 87.87  
## 98 871-39-9221 C Normal Female Electronic accessories 12.45  
## 99 865-92-6136 A Normal Male Food and beverages 52.75  
## 100 733-01-9107 B Normal Male Home and lifestyle 82.70  
## 101 163-56-7055 C Member Male Fashion accessories 48.71  
## 102 189-98-2939 C Normal Male Fashion accessories 78.55  
## 103 551-21-3069 C Normal Female Electronic accessories 23.07  
## 104 212-62-1842 A Normal Male Food and beverages 58.26  
## 105 716-39-1409 B Normal Male Health and beauty 30.35  
## 106 704-48-3927 A Member Male Electronic accessories 88.67  
## 107 628-34-3388 C Normal Male Fashion accessories 27.38  
## 108 630-74-5166 A Normal Male Sports and travel 62.13  
## 109 588-01-7461 C Normal Female Food and beverages 33.98  
## 110 861-77-0145 C Member Male Electronic accessories 81.97  
## 111 479-26-8945 B Member Female Sports and travel 16.49  
## 112 210-67-5886 C Member Female Health and beauty 98.21  
## 113 227-78-1148 B Normal Female Fashion accessories 72.84  
## 114 645-44-1170 A Member Male Home and lifestyle 58.07  
## 115 237-01-6122 C Member Female Home and lifestyle 80.79  
## 116 225-98-1496 C Normal Female Fashion accessories 27.02  
## 117 291-32-1427 B Member Male Fashion accessories 21.94  
## 118 659-65-8956 B Member Male Fashion accessories 51.36  
## 119 642-32-2990 A Normal Female Food and beverages 10.96  
## 120 378-24-2715 B Normal Male Home and lifestyle 53.44  
## 121 638-60-7125 A Normal Female Electronic accessories 99.56  
## 122 659-36-1684 C Member Male Sports and travel 57.12  
## 123 219-22-9386 B Member Male Sports and travel 99.96  
## 124 336-78-2147 C Member Male Home and lifestyle 63.91  
## 125 268-27-6179 B Member Female Fashion accessories 56.47  
## 126 668-90-8900 A Normal Female Home and lifestyle 93.69  
## 127 870-54-3162 A Normal Female Sports and travel 32.25  
## 128 189-08-9157 C Normal Female Fashion accessories 31.73  
## 129 663-86-9076 C Member Female Food and beverages 68.54  
## 130 549-84-7482 B Normal Female Sports and travel 90.28  
## 131 191-10-6171 B Normal Female Fashion accessories 39.62  
## 132 802-70-5316 A Member Female Sports and travel 92.13  
## 133 695-51-0018 B Normal Female Sports and travel 34.84  
## 134 590-83-4591 B Member Male Electronic accessories 87.45  
## 135 483-71-1164 C Normal Female Health and beauty 81.30  
## 136 597-78-7908 C Normal Male Fashion accessories 90.22  
## 137 700-81-1757 A Normal Female Electronic accessories 26.31  
## 138 354-39-5160 A Member Female Home and lifestyle 34.42  
## 139 241-72-9525 B Normal Male Sports and travel 51.91  
## 140 575-30-8091 A Normal Male Sports and travel 72.50  
## 141 731-81-9469 C Member Female Sports and travel 89.80  
## 142 280-17-4359 C Member Male Health and beauty 90.50  
## 143 338-65-2210 C Member Female Health and beauty 68.60  
## 144 488-25-4221 C Member Female Food and beverages 30.41  
## 145 239-10-7476 A Normal Female Home and lifestyle 77.95  
## 146 458-41-1477 C Normal Female Health and beauty 46.26  
## 147 685-64-1609 A Member Female Fashion accessories 30.14  
## 148 568-90-5112 C Normal Male Health and beauty 66.14  
## 149 262-47-2794 B Member Male Home and lifestyle 71.86  
## 150 238-49-0436 A Normal Male Health and beauty 32.46  
## 151 608-96-3517 B Member Female Fashion accessories 91.54  
## 152 584-86-7256 C Member Male Sports and travel 34.56  
## 153 746-94-0204 A Normal Male Fashion accessories 83.24  
## 154 214-17-6927 C Normal Female Food and beverages 16.48  
## 155 400-89-4171 C Normal Female Sports and travel 80.97  
## 156 782-95-9291 A Member Male Food and beverages 92.29  
## 157 279-74-2924 B Member Male Electronic accessories 72.17  
## 158 307-85-2293 B Normal Male Home and lifestyle 50.28  
## 159 743-04-1105 B Member Male Health and beauty 97.22  
## 160 423-57-2993 B Normal Male Sports and travel 93.39  
## 161 894-41-5205 C Normal Female Food and beverages 43.18  
## 162 275-28-0149 A Normal Male Sports and travel 63.69  
## 163 101-17-6199 A Normal Male Food and beverages 45.79  
## 164 423-80-0988 C Normal Male Sports and travel 76.40  
## 165 548-46-9322 B Normal Male Food and beverages 39.90  
## 166 505-02-0892 B Member Male Health and beauty 42.57  
## 167 234-65-2137 C Normal Male Home and lifestyle 95.58  
## 168 687-47-8271 A Normal Male Fashion accessories 98.98  
## 169 796-32-9050 A Normal Male Food and beverages 51.28  
## 170 105-31-1824 A Member Male Sports and travel 69.52  
## 171 249-42-3782 A Normal Male Health and beauty 70.01  
## 172 316-55-4634 B Member Male Food and beverages 80.05  
## 173 733-33-4967 C Normal Male Electronic accessories 20.85  
## 174 608-27-6295 B Member Male Electronic accessories 52.89  
## 175 414-12-7047 B Normal Male Food and beverages 19.79  
## 176 827-26-2100 A Member Male Home and lifestyle 33.84  
## 177 175-54-2529 A Member Male Food and beverages 22.17  
## 178 139-52-2867 C Normal Female Fashion accessories 22.51  
## 179 407-63-8975 A Normal Male Food and beverages 73.88  
## 180 342-65-4817 C Member Male Health and beauty 86.80  
## 181 130-98-8941 C Normal Male Fashion accessories 64.26  
## 182 434-83-9547 C Member Male Food and beverages 38.47  
## 183 851-28-6367 A Member Male Sports and travel 15.50  
## 184 824-88-3614 C Normal Male Health and beauty 34.31  
## 185 586-25-0848 A Normal Female Sports and travel 12.34  
## 186 895-66-0685 B Member Male Food and beverages 18.08  
## 187 305-14-0245 B Member Female Home and lifestyle 94.49  
## 188 732-04-5373 B Member Male Home and lifestyle 46.47  
## 189 400-60-7251 A Normal Male Home and lifestyle 74.07  
## 190 593-65-1552 C Normal Female Home and lifestyle 69.81  
## 191 284-34-9626 B Normal Female Home and lifestyle 77.04  
## 192 437-58-8131 B Normal Female Fashion accessories 73.52  
## 193 286-43-6208 C Normal Female Food and beverages 87.80  
## 194 641-43-2399 B Normal Male Home and lifestyle 25.55  
## 195 831-07-6050 A Normal Male Electronic accessories 32.71  
## 196 556-86-3144 C Member Female Fashion accessories 74.29  
## 197 848-24-9445 C Member Male Health and beauty 43.70  
## 198 856-22-8149 A Normal Female Home and lifestyle 25.29  
## 199 699-01-4164 C Normal Male Health and beauty 41.50  
## 200 420-11-4919 C Member Female Food and beverages 71.39  
## 201 606-80-4905 C Member Female Sports and travel 19.15  
## 202 542-41-0513 B Member Female Electronic accessories 57.49  
## 203 426-39-2418 C Normal Male Electronic accessories 61.41  
## 204 875-46-5808 B Member Male Health and beauty 25.90  
## 205 394-43-4238 B Member Male Home and lifestyle 17.77  
## 206 749-24-1565 A Normal Female Health and beauty 23.03  
## 207 672-51-8681 C Member Female Electronic accessories 66.65  
## 208 263-87-5680 C Member Female Home and lifestyle 28.53  
## 209 573-58-9734 B Normal Female Fashion accessories 30.37  
## 210 817-69-8206 B Normal Female Electronic accessories 99.73  
## 211 888-02-0338 A Normal Male Electronic accessories 26.23  
## 212 677-11-0152 C Normal Female Food and beverages 93.26  
## 213 142-63-6033 B Normal Male Home and lifestyle 92.36  
## 214 656-16-1063 B Normal Male Sports and travel 46.42  
## 215 891-58-8335 B Member Female Sports and travel 29.61  
## 216 802-43-8934 A Normal Male Home and lifestyle 18.28  
## 217 560-30-5617 B Normal Female Sports and travel 24.77  
## 218 319-74-2561 A Member Female Electronic accessories 94.64  
## 219 549-03-9315 B Normal Male Fashion accessories 94.87  
## 220 790-29-1172 B Normal Female Food and beverages 57.34  
## 221 239-36-3640 B Normal Male Electronic accessories 45.35  
## 222 468-01-2051 B Normal Male Food and beverages 62.08  
## 223 389-25-3394 C Normal Male Electronic accessories 11.81  
## 224 279-62-1445 C Member Female Fashion accessories 12.54  
## 225 213-72-6612 A Normal Male Food and beverages 43.25  
## 226 746-68-6593 C Member Female Sports and travel 87.16  
## 227 836-82-5858 B Member Male Health and beauty 69.37  
## 228 583-72-1480 C Member Male Electronic accessories 37.06  
## 229 466-61-5506 B Member Female Electronic accessories 90.70  
## 230 721-86-6247 A Normal Female Home and lifestyle 63.42  
## 231 289-65-5721 B Normal Female Fashion accessories 81.37  
## 232 545-46-3100 B Member Female Electronic accessories 10.59  
## 233 418-02-5978 B Normal Female Health and beauty 84.09  
## 234 269-04-5750 B Member Male Fashion accessories 73.82  
## 235 157-13-5295 A Member Male Health and beauty 51.94  
## 236 645-78-8093 A Normal Female Sports and travel 93.14  
## 237 211-30-9270 C Normal Male Health and beauty 17.41  
## 238 755-12-3214 C Member Female Fashion accessories 44.22  
## 239 346-84-3103 B Member Female Electronic accessories 13.22  
## 240 478-06-7835 A Normal Male Fashion accessories 89.69  
## 241 540-11-4336 A Normal Male Food and beverages 24.94  
## 242 448-81-5016 A Normal Male Health and beauty 59.77  
## 243 142-72-4741 C Member Male Fashion accessories 93.20  
## 244 217-58-1179 A Member Male Home and lifestyle 62.65  
## 245 376-02-8238 B Normal Male Home and lifestyle 93.87  
## 246 530-90-9855 A Member Male Home and lifestyle 47.59  
## 247 866-05-7563 B Member Female Electronic accessories 81.40  
## 248 604-70-6476 A Member Male Fashion accessories 17.94  
## 249 799-71-1548 A Member Male Electronic accessories 77.72  
## 250 785-13-7708 B Normal Male Food and beverages 73.06  
## 251 845-51-0542 B Member Male Food and beverages 46.55  
## 252 662-47-5456 C Member Male Fashion accessories 35.19  
## 253 883-17-4236 C Normal Female Sports and travel 14.39  
## 254 290-68-2984 A Normal Male Home and lifestyle 23.75  
## 255 704-11-6354 A Member Male Home and lifestyle 58.90  
## 256 110-48-7033 B Member Male Fashion accessories 32.62  
## 257 366-93-0948 A Member Male Electronic accessories 66.35  
## 258 729-09-9681 A Member Male Home and lifestyle 25.91  
## 259 151-16-1484 A Member Male Electronic accessories 32.25  
## 260 380-94-4661 C Member Male Electronic accessories 65.94  
## 261 850-41-9669 A Normal Female Electronic accessories 75.06  
## 262 821-07-3596 C Normal Female Fashion accessories 16.45  
## 263 655-85-5130 B Member Female Fashion accessories 38.30  
## 264 447-15-7839 A Member Female Sports and travel 22.24  
## 265 154-74-7179 B Normal Male Sports and travel 54.45  
## 266 253-12-6086 A Member Female Sports and travel 98.40  
## 267 808-65-0703 C Normal Male Home and lifestyle 35.47  
## 268 571-94-0759 B Member Female Food and beverages 74.60  
## 269 144-51-6085 A Member Male Home and lifestyle 70.74  
## 270 731-14-2199 A Member Female Home and lifestyle 35.54  
## 271 783-09-1637 B Normal Female Sports and travel 67.43  
## 272 687-15-1097 C Member Female Health and beauty 21.12  
## 273 126-54-1082 A Member Female Home and lifestyle 21.54  
## 274 633-91-1052 A Normal Female Home and lifestyle 12.03  
## 275 477-24-6490 B Normal Female Health and beauty 99.71  
## 276 566-19-5475 B Normal Male Fashion accessories 47.97  
## 277 526-86-8552 C Member Female Home and lifestyle 21.82  
## 278 376-56-3573 C Normal Female Fashion accessories 95.42  
## 279 537-72-0426 C Member Male Fashion accessories 70.99  
## 280 828-61-5674 A Member Male Sports and travel 44.02  
## 281 136-08-6195 A Normal Female Home and lifestyle 69.96  
## 282 523-38-0215 C Normal Male Home and lifestyle 37.00  
## 283 490-29-1201 A Normal Female Sports and travel 15.34  
## 284 667-92-0055 A Member Male Health and beauty 99.83  
## 285 565-17-3836 A Member Female Health and beauty 47.67  
## 286 498-41-1961 B Normal Male Health and beauty 66.68  
## 287 593-95-4461 C Member Male Home and lifestyle 74.86  
## 288 226-71-3580 C Normal Female Sports and travel 23.75  
## 289 283-79-9594 B Normal Female Food and beverages 48.51  
## 290 430-60-3493 A Member Female Home and lifestyle 94.88  
## 291 139-20-0155 B Member Male Electronic accessories 40.30  
## 292 558-80-4082 C Normal Male Electronic accessories 27.85  
## 293 278-97-7759 A Member Female Electronic accessories 62.48  
## 294 316-68-6352 A Member Female Food and beverages 36.36  
## 295 585-03-5943 B Normal Male Health and beauty 18.11  
## 296 211-05-0490 C Member Female Electronic accessories 51.92  
## 297 727-75-6477 C Normal Male Electronic accessories 28.84  
## 298 744-02-5987 A Member Male Home and lifestyle 78.38  
## 299 307-83-9164 A Member Male Home and lifestyle 60.01  
## 300 779-06-0012 C Member Female Home and lifestyle 88.61  
## 301 446-47-6729 C Normal Male Fashion accessories 99.82  
## 302 573-10-3877 B Member Male Health and beauty 39.01  
## 303 735-06-4124 C Normal Male Food and beverages 48.61  
## 304 439-54-7422 A Normal Female Electronic accessories 51.19  
## 305 396-90-2219 B Normal Female Electronic accessories 14.96  
## 306 411-77-0180 A Member Male Electronic accessories 72.20  
## 307 286-01-5402 A Normal Female Sports and travel 40.23  
## 308 803-17-8013 A Member Female Home and lifestyle 88.79  
## 309 512-98-1403 A Member Female Electronic accessories 26.48  
## 310 848-42-2560 A Normal Female Fashion accessories 81.91  
## 311 532-59-7201 B Member Male Sports and travel 79.93  
## 312 181-94-6432 C Member Male Fashion accessories 69.33  
## 313 870-76-1733 A Member Female Food and beverages 14.23  
## 314 423-64-4619 A Member Female Health and beauty 15.55  
## 315 227-07-4446 C Member Female Electronic accessories 78.13  
## 316 174-36-3675 C Member Male Food and beverages 99.37  
## 317 428-83-5800 C Member Female Food and beverages 21.08  
## 318 603-07-0961 C Member Male Electronic accessories 74.79  
## 319 704-20-4138 C Member Female Health and beauty 29.67  
## 320 787-15-1757 C Member Male Health and beauty 44.07  
## 321 649-11-3678 C Normal Female Food and beverages 22.93  
## 322 622-20-1945 C Normal Female Health and beauty 39.42  
## 323 372-94-8041 A Normal Male Health and beauty 15.26  
## 324 563-91-7120 A Normal Female Fashion accessories 61.77  
## 325 746-54-5508 A Normal Male Home and lifestyle 21.52  
## 326 276-54-0879 B Normal Male Sports and travel 97.74  
## 327 815-11-1168 A Member Male Food and beverages 99.78  
## 328 719-76-3868 C Member Male Food and beverages 94.26  
## 329 730-61-8757 B Member Male Health and beauty 51.13  
## 330 340-66-0321 A Member Male Electronic accessories 36.36  
## 331 868-81-1752 B Normal Male Home and lifestyle 22.02  
## 332 634-97-8956 A Normal Male Food and beverages 32.90  
## 333 566-71-1091 A Normal Male Fashion accessories 77.02  
## 334 442-48-3607 A Member Male Food and beverages 23.48  
## 335 835-16-0096 C Member Male Sports and travel 14.70  
## 336 527-09-6272 A Member Female Electronic accessories 28.45  
## 337 898-04-2717 A Normal Male Fashion accessories 76.40  
## 338 692-27-8933 B Normal Female Sports and travel 57.95  
## 339 633-09-3463 C Normal Female Electronic accessories 47.65  
## 340 374-17-3652 B Member Female Food and beverages 42.82  
## 341 378-07-7001 B Member Male Electronic accessories 48.09  
## 342 433-75-6987 B Member Female Health and beauty 55.97  
## 343 873-95-4984 B Member Female Health and beauty 76.90  
## 344 416-13-5917 C Normal Female Food and beverages 97.03  
## 345 150-89-8043 A Normal Male Sports and travel 44.65  
## 346 135-84-8019 A Normal Female Fashion accessories 77.93  
## 347 441-94-7118 A Member Male Electronic accessories 71.95  
## 348 725-96-3778 C Member Female Home and lifestyle 89.25  
## 349 531-80-1784 A Normal Male Electronic accessories 26.02  
## 350 400-45-1220 B Normal Female Health and beauty 13.50  
## 351 860-79-0874 C Member Female Fashion accessories 99.30  
## 352 834-61-8124 A Normal Male Electronic accessories 51.69  
## 353 115-99-4379 B Member Female Fashion accessories 54.73  
## 354 565-67-6697 B Member Male Home and lifestyle 27.00  
## 355 320-49-6392 C Normal Female Electronic accessories 30.24  
## 356 889-04-9723 B Member Female Food and beverages 89.14  
## 357 632-90-0281 C Normal Female Fashion accessories 37.55  
## 358 554-42-2417 C Normal Female Sports and travel 95.44  
## 359 453-63-6187 B Normal Male Electronic accessories 27.50  
## 360 578-80-7669 B Normal Male Sports and travel 74.97  
## 361 612-36-5536 A Member Male Food and beverages 80.96  
## 362 605-72-4132 C Normal Female Food and beverages 94.47  
## 363 471-41-2823 C Normal Male Food and beverages 99.79  
## 364 462-67-9126 A Normal Male Home and lifestyle 73.22  
## 365 272-27-9238 C Normal Female Food and beverages 41.24  
## 366 834-25-9262 C Normal Female Fashion accessories 81.68  
## 367 122-61-9553 C Normal Female Electronic accessories 51.32  
## 368 468-88-0009 A Member Male Home and lifestyle 65.94  
## 369 613-59-9758 C Normal Female Sports and travel 14.36  
## 370 254-31-0042 A Member Male Electronic accessories 21.50  
## 371 201-86-2184 B Member Female Electronic accessories 26.26  
## 372 261-12-8671 B Normal Female Fashion accessories 60.96  
## 373 730-70-9830 C Normal Female Home and lifestyle 70.11  
## 374 382-25-8917 C Normal Male Fashion accessories 42.08  
## 375 422-29-8786 A Normal Female Home and lifestyle 67.09  
## 376 667-23-5919 A Member Female Fashion accessories 96.70  
## 377 843-01-4703 B Member Female Home and lifestyle 35.38  
## 378 743-88-1662 C Normal Male Sports and travel 95.49  
## 379 595-86-2894 C Member Male Fashion accessories 96.98  
## 380 182-69-8360 B Normal Female Electronic accessories 23.65  
## 381 289-15-7034 A Member Male Sports and travel 82.33  
## 382 462-78-5240 C Normal Female Electronic accessories 26.61  
## 383 868-52-7573 B Normal Female Food and beverages 99.69  
## 384 153-58-4872 C Member Female Food and beverages 74.89  
## 385 662-72-2873 A Normal Female Food and beverages 40.94  
## 386 525-88-7307 B Member Male Sports and travel 75.82  
## 387 689-16-9784 C Normal Male Food and beverages 46.77  
## 388 725-56-0833 A Normal Female Health and beauty 32.32  
## 389 394-41-0748 C Member Female Fashion accessories 54.07  
## 390 596-42-3999 B Normal Male Food and beverages 18.22  
## 391 541-89-9860 C Member Female Fashion accessories 80.48  
## 392 173-82-9529 B Normal Female Fashion accessories 37.95  
## 393 563-36-9814 A Member Male Electronic accessories 76.82  
## 394 308-47-4913 A Member Female Sports and travel 52.26  
## 395 885-17-6250 A Normal Female Health and beauty 79.74  
## 396 726-27-2396 A Normal Female Health and beauty 77.50  
## 397 316-01-3952 A Normal Female Food and beverages 54.27  
## 398 760-54-1821 B Normal Male Home and lifestyle 13.59  
## 399 793-10-3222 B Member Female Health and beauty 41.06  
## 400 346-12-3257 B Member Male Electronic accessories 19.24  
## 401 110-05-6330 C Normal Female Food and beverages 39.43  
## 402 651-61-0874 C Normal Male Home and lifestyle 46.22  
## 403 236-86-3015 C Member Male Home and lifestyle 13.98  
## 404 831-64-0259 B Normal Female Fashion accessories 39.75  
## 405 587-03-7455 C Member Female Fashion accessories 97.79  
## 406 882-40-4577 A Member Male Sports and travel 67.26  
## 407 732-67-5346 A Normal Male Food and beverages 13.79  
## 408 725-32-9708 B Member Female Fashion accessories 68.71  
## 409 256-08-8343 A Normal Female Home and lifestyle 56.53  
## 410 372-26-1506 C Normal Female Fashion accessories 23.82  
## 411 244-08-0162 B Normal Female Health and beauty 34.21  
## 412 569-71-4390 B Normal Male Sports and travel 21.87  
## 413 132-23-6451 A Member Male Health and beauty 20.97  
## 414 696-90-2548 A Normal Male Sports and travel 25.84  
## 415 472-15-9636 A Normal Male Home and lifestyle 50.93  
## 416 268-03-6164 B Normal Male Health and beauty 96.11  
## 417 750-57-9686 C Normal Female Home and lifestyle 45.38  
## 418 186-09-3669 C Member Female Health and beauty 81.51  
## 419 848-07-1692 B Normal Female Health and beauty 57.22  
## 420 745-71-3520 A Member Female Electronic accessories 25.22  
## 421 266-76-6436 C Member Female Food and beverages 38.60  
## 422 740-22-2500 C Normal Female Electronic accessories 84.05  
## 423 271-88-8734 C Member Female Fashion accessories 97.21  
## 424 301-81-8610 B Member Male Fashion accessories 25.42  
## 425 489-64-4354 C Normal Male Fashion accessories 16.28  
## 426 198-84-7132 B Member Male Fashion accessories 40.61  
## 427 269-10-8440 A Member Male Health and beauty 53.17  
## 428 650-98-6268 B Member Female Food and beverages 20.87  
## 429 741-73-3559 B Normal Male Sports and travel 67.27  
## 430 325-77-6186 A Member Female Home and lifestyle 90.65  
## 431 286-75-7818 B Normal Male Fashion accessories 69.08  
## 432 574-57-9721 C Normal Male Food and beverages 43.27  
## 433 459-50-7686 A Normal Female Electronic accessories 23.46  
## 434 616-87-0016 B Normal Male Fashion accessories 95.54  
## 435 837-55-7229 B Normal Female Fashion accessories 47.44  
## 436 751-69-0068 C Normal Male Sports and travel 99.24  
## 437 257-73-1380 C Member Male Sports and travel 82.93  
## 438 345-08-4992 A Normal Male Home and lifestyle 33.99  
## 439 549-96-4200 C Member Male Food and beverages 17.04  
## 440 810-60-6344 C Normal Female Electronic accessories 40.86  
## 441 450-28-2866 C Member Male Food and beverages 17.44  
## 442 394-30-3170 B Member Female Sports and travel 88.43  
## 443 138-17-5109 A Member Female Home and lifestyle 89.21  
## 444 192-98-7397 C Normal Male Fashion accessories 12.78  
## 445 301-11-9629 A Normal Female Sports and travel 19.10  
## 446 390-80-5128 B Member Female Health and beauty 19.15  
## 447 235-46-8343 C Member Male Food and beverages 27.66  
## 448 453-12-7053 C Normal Male Fashion accessories 45.74  
## 449 296-11-7041 B Member Female Health and beauty 27.07  
## 450 449-27-2918 B Member Female Sports and travel 39.12  
## 451 891-01-7034 B Normal Female Electronic accessories 74.71  
## 452 744-09-5786 B Normal Male Electronic accessories 22.01  
## 453 727-17-0390 A Normal Female Food and beverages 63.61  
## 454 568-88-3448 A Normal Male Health and beauty 25.00  
## 455 187-83-5490 A Member Male Electronic accessories 20.77  
## 456 767-54-1907 B Member Female Fashion accessories 29.56  
## 457 710-46-4433 B Member Female Food and beverages 77.40  
## 458 533-33-5337 B Normal Male Electronic accessories 79.39  
## 459 325-90-8763 C Member Female Electronic accessories 46.57  
## 460 729-46-7422 C Normal Male Food and beverages 35.89  
## 461 639-76-1242 C Normal Male Food and beverages 40.52  
## 462 234-03-4040 B Member Female Food and beverages 73.05  
## 463 326-71-2155 C Normal Female Sports and travel 73.95  
## 464 320-32-8842 C Member Female Food and beverages 22.62  
## 465 470-32-9057 A Member Male Food and beverages 51.34  
## 466 878-30-2331 C Member Female Sports and travel 54.55  
## 467 440-59-5691 C Member Female Health and beauty 37.15  
## 468 554-53-3790 B Normal Male Sports and travel 37.02  
## 469 746-19-0921 C Normal Male Food and beverages 21.58  
## 470 233-34-0817 C Member Female Electronic accessories 98.84  
## 471 767-05-1286 C Member Female Home and lifestyle 83.77  
## 472 340-21-9136 A Member Female Sports and travel 40.05  
## 473 405-31-3305 A Member Male Fashion accessories 43.13  
## 474 731-59-7531 B Member Male Health and beauty 72.57  
## 475 676-39-6028 A Member Female Electronic accessories 64.44  
## 476 502-05-1910 A Normal Male Health and beauty 65.18  
## 477 485-30-8700 A Normal Female Sports and travel 33.26  
## 478 598-47-9715 C Normal Male Electronic accessories 84.07  
## 479 701-69-8742 B Normal Male Sports and travel 34.37  
## 480 575-67-1508 A Normal Male Electronic accessories 38.60  
## 481 541-08-3113 C Normal Male Food and beverages 65.97  
## 482 246-11-3901 C Normal Female Electronic accessories 32.80  
## 483 674-15-9296 A Normal Male Sports and travel 37.14  
## 484 305-18-3552 B Member Male Home and lifestyle 60.38  
## 485 493-65-6248 C Member Female Sports and travel 36.98  
## 486 438-01-4015 B Member Female Sports and travel 49.49  
## 487 709-58-4068 B Normal Female Fashion accessories 41.09  
## 488 795-49-7276 A Normal Male Fashion accessories 37.15  
## 489 556-72-8512 C Normal Male Home and lifestyle 22.96  
## 490 627-95-3243 B Member Female Home and lifestyle 77.68  
## 491 686-41-0932 B Normal Female Fashion accessories 34.70  
## 492 510-09-5628 A Member Female Fashion accessories 19.66  
## 493 608-04-3797 B Member Female Health and beauty 25.32  
## 494 148-82-2527 C Member Female Home and lifestyle 12.12  
## 495 437-53-3084 B Normal Male Fashion accessories 99.89  
## 496 632-32-4574 B Normal Male Sports and travel 75.92  
## 497 556-97-7101 C Normal Female Electronic accessories 63.22  
## 498 862-59-8517 C Normal Female Food and beverages 90.24  
## 499 401-18-8016 B Member Female Sports and travel 98.13  
## 500 420-18-8989 A Member Female Sports and travel 51.52  
## 501 277-63-2961 B Member Male Sports and travel 73.97  
## 502 573-98-8548 C Member Female Fashion accessories 31.90  
## 503 620-02-2046 C Normal Male Home and lifestyle 69.40  
## 504 282-35-2475 B Normal Female Sports and travel 93.31  
## 505 511-54-3087 B Normal Male Sports and travel 88.45  
## 506 726-29-6793 A Member Male Electronic accessories 24.18  
## 507 387-49-4215 B Member Female Sports and travel 48.50  
## 508 862-17-9201 B Normal Female Food and beverages 84.05  
## 509 291-21-5991 B Member Male Health and beauty 61.29  
## 510 602-80-9671 C Member Female Home and lifestyle 15.95  
## 511 347-72-6115 B Member Female Sports and travel 90.74  
## 512 209-61-0206 A Normal Female Home and lifestyle 42.91  
## 513 595-27-4851 A Normal Female Fashion accessories 54.28  
## 514 189-52-0236 A Normal Male Electronic accessories 99.55  
## 515 503-07-0930 C Member Male Sports and travel 58.39  
## 516 413-20-6708 C Member Female Fashion accessories 51.47  
## 517 425-85-2085 B Member Male Health and beauty 54.86  
## 518 521-18-7827 C Member Male Home and lifestyle 39.39  
## 519 220-28-1851 A Normal Male Home and lifestyle 34.73  
## 520 600-38-9738 C Member Male Sports and travel 71.92  
## 521 734-91-1155 B Normal Female Electronic accessories 45.71  
## 522 451-28-5717 C Member Female Home and lifestyle 83.17  
## 523 609-81-8548 A Member Female Home and lifestyle 37.44  
## 524 133-14-7229 C Normal Male Health and beauty 62.87  
## 525 534-01-4457 A Normal Male Food and beverages 81.71  
## 526 719-89-8991 A Member Female Sports and travel 91.41  
## 527 286-62-6248 B Normal Male Fashion accessories 39.21  
## 528 339-38-9982 B Member Male Fashion accessories 59.86  
## 529 827-44-5872 B Member Female Food and beverages 54.36  
## 530 827-77-7633 A Normal Male Sports and travel 98.09  
## 531 287-83-1405 A Normal Male Health and beauty 25.43  
## 532 435-13-4908 A Member Male Fashion accessories 86.68  
## 533 857-67-9057 B Normal Male Electronic accessories 22.95  
## 534 236-27-1144 C Normal Female Food and beverages 16.31  
## 535 892-05-6689 A Normal Female Home and lifestyle 28.32  
## 536 583-41-4548 C Normal Male Home and lifestyle 16.67  
## 537 339-12-4827 B Member Female Fashion accessories 73.96  
## 538 643-38-7867 A Normal Male Home and lifestyle 97.94  
## 539 308-81-0538 A Normal Female Fashion accessories 73.05  
## 540 358-88-9262 C Member Female Food and beverages 87.48  
## 541 460-35-4390 A Normal Male Home and lifestyle 30.68  
## 542 343-87-0864 C Member Male Health and beauty 75.88  
## 543 173-50-1108 B Member Female Sports and travel 20.18  
## 544 243-47-2663 C Member Male Electronic accessories 18.77  
## 545 841-18-8232 B Normal Female Food and beverages 71.20  
## 546 701-23-5550 B Member Male Home and lifestyle 38.81  
## 547 647-50-1224 A Normal Female Fashion accessories 29.42  
## 548 541-48-8554 A Normal Male Sports and travel 60.95  
## 549 539-21-7227 B Normal Female Sports and travel 51.54  
## 550 213-32-1216 A Normal Female Electronic accessories 66.06  
## 551 747-58-7183 B Normal Male Fashion accessories 57.27  
## 552 582-52-8065 B Normal Female Fashion accessories 54.31  
## 553 210-57-1719 B Normal Female Health and beauty 58.24  
## 554 399-69-4630 C Normal Male Electronic accessories 22.21  
## 555 134-75-2619 A Member Male Electronic accessories 19.32  
## 556 356-44-8813 B Normal Male Home and lifestyle 37.48  
## 557 198-66-9832 B Member Female Fashion accessories 72.04  
## 558 283-26-5248 C Member Female Food and beverages 98.52  
## 559 712-39-0363 A Member Male Food and beverages 41.66  
## 560 218-59-9410 A Member Female Home and lifestyle 72.42  
## 561 174-75-0888 B Normal Male Electronic accessories 21.58  
## 562 866-99-7614 C Normal Male Food and beverages 89.20  
## 563 134-54-4720 B Normal Female Electronic accessories 42.42  
## 564 760-90-2357 A Member Male Electronic accessories 74.51  
## 565 514-37-2845 B Normal Male Fashion accessories 99.25  
## 566 698-98-5964 A Normal Female Food and beverages 81.21  
## 567 718-57-9773 C Normal Female Sports and travel 49.33  
## 568 651-88-7328 A Normal Female Fashion accessories 65.74  
## 569 241-11-2261 B Normal Female Fashion accessories 79.86  
## 570 408-26-9866 C Normal Female Sports and travel 73.98  
## 571 834-83-1826 B Member Female Home and lifestyle 82.04  
## 572 343-61-3544 B Member Male Sports and travel 26.67  
## 573 239-48-4278 A Member Male Food and beverages 10.13  
## 574 355-34-6244 B Normal Male Food and beverages 72.39  
## 575 550-84-8664 A Normal Male Sports and travel 85.91  
## 576 339-96-8318 B Member Male Fashion accessories 81.31  
## 577 458-61-0011 B Normal Male Food and beverages 60.30  
## 578 592-34-6155 C Normal Male Food and beverages 31.77  
## 579 797-88-0493 A Normal Female Health and beauty 64.27  
## 580 207-73-1363 B Normal Male Health and beauty 69.51  
## 581 390-31-6381 C Normal Male Food and beverages 27.22  
## 582 443-82-0585 A Member Female Health and beauty 77.68  
## 583 339-18-7061 C Member Female Fashion accessories 92.98  
## 584 359-90-3665 B Member Female Fashion accessories 18.08  
## 585 375-72-3056 B Normal Male Sports and travel 63.06  
## 586 127-47-6963 A Normal Male Health and beauty 51.71  
## 587 278-86-2735 A Normal Female Food and beverages 52.34  
## 588 695-28-6250 A Normal Female Sports and travel 43.06  
## 589 379-17-6588 C Normal Male Fashion accessories 59.61  
## 590 227-50-3718 A Normal Male Health and beauty 14.62  
## 591 302-15-2162 C Member Male Health and beauty 46.53  
## 592 788-07-8452 C Member Female Home and lifestyle 24.24  
## 593 560-49-6611 A Member Female Sports and travel 45.58  
## 594 880-35-0356 A Member Female Sports and travel 75.20  
## 595 585-11-6748 B Member Male Sports and travel 96.80  
## 596 470-31-3286 B Normal Male Health and beauty 14.82  
## 597 152-68-2907 A Normal Male Food and beverages 52.20  
## 598 123-35-4896 C Normal Female Sports and travel 46.66  
## 599 258-69-7810 C Normal Female Fashion accessories 36.85  
## 600 334-64-2006 A Member Female Home and lifestyle 70.32  
## 601 219-61-4139 C Normal Male Electronic accessories 83.08  
## 602 881-41-7302 C Normal Female Fashion accessories 64.99  
## 603 373-09-4567 C Normal Male Food and beverages 77.56  
## 604 642-30-6693 B Normal Female Sports and travel 54.51  
## 605 484-22-8230 C Member Female Fashion accessories 51.89  
## 606 830-58-2383 B Normal Male Home and lifestyle 31.75  
## 607 559-98-9873 A Member Female Fashion accessories 53.65  
## 608 544-32-5024 C Member Female Food and beverages 49.79  
## 609 318-12-0304 A Normal Male Fashion accessories 30.61  
## 610 349-97-8902 B Member Male Food and beverages 57.89  
## 611 421-95-9805 A Normal Female Electronic accessories 28.96  
## 612 277-35-5865 C Member Female Food and beverages 98.97  
## 613 789-23-8625 B Member Male Fashion accessories 93.22  
## 614 284-54-4231 C Member Male Sports and travel 80.93  
## 615 443-59-0061 A Member Male Food and beverages 67.45  
## 616 509-29-3912 A Member Female Sports and travel 38.72  
## 617 327-40-9673 B Member Male Sports and travel 72.60  
## 618 840-19-2096 C Member Male Electronic accessories 87.91  
## 619 828-46-6863 A Member Male Food and beverages 98.53  
## 620 641-96-3695 C Member Female Fashion accessories 43.46  
## 621 420-97-3340 A Normal Female Food and beverages 71.68  
## 622 436-54-4512 A Member Female Food and beverages 91.61  
## 623 670-79-6321 B Member Female Home and lifestyle 94.59  
## 624 852-62-7105 B Normal Female Fashion accessories 83.25  
## 625 598-06-7312 B Member Male Fashion accessories 91.35  
## 626 135-13-8269 B Member Female Food and beverages 78.88  
## 627 816-57-2053 A Normal Male Sports and travel 60.87  
## 628 628-90-8624 B Member Male Health and beauty 82.58  
## 629 856-66-2701 A Member Male Home and lifestyle 53.30  
## 630 308-39-1707 A Normal Female Fashion accessories 12.09  
## 631 149-61-1929 A Normal Male Sports and travel 64.19  
## 632 655-07-2265 A Normal Male Electronic accessories 78.31  
## 633 589-02-8023 A Member Male Food and beverages 83.77  
## 634 420-04-7590 B Normal Male Home and lifestyle 99.70  
## 635 182-88-2763 B Member Male Food and beverages 79.91  
## 636 188-55-0967 B Member Male Health and beauty 66.47  
## 637 610-46-4100 A Normal Male Health and beauty 28.95  
## 638 318-81-2368 C Normal Female Electronic accessories 46.20  
## 639 364-33-8584 B Member Female Food and beverages 17.63  
## 640 665-63-9737 B Normal Male Fashion accessories 52.42  
## 641 695-09-5146 B Member Female Food and beverages 98.79  
## 642 155-45-3814 C Member Female Electronic accessories 88.55  
## 643 794-32-2436 B Member Male Electronic accessories 55.67  
## 644 131-15-8856 C Member Female Food and beverages 72.52  
## 645 273-84-2164 C Member Male Electronic accessories 12.05  
## 646 706-36-6154 A Member Male Home and lifestyle 19.36  
## 647 778-89-7974 C Normal Male Health and beauty 70.21  
## 648 574-31-8277 B Member Male Fashion accessories 33.63  
## 649 859-71-0933 C Member Female Sports and travel 15.49  
## 650 740-11-5257 C Normal Male Electronic accessories 24.74  
## 651 369-82-2676 B Normal Male Electronic accessories 75.66  
## 652 563-47-4072 B Normal Female Health and beauty 55.81  
## 653 742-04-5161 A Member Male Home and lifestyle 72.78  
## 654 149-15-7606 B Member Male Sports and travel 37.32  
## 655 133-77-3154 B Member Male Fashion accessories 60.18  
## 656 169-52-4504 A Normal Female Electronic accessories 15.69  
## 657 250-81-7186 C Normal Female Electronic accessories 99.69  
## 658 562-12-5430 A Member Female Fashion accessories 88.15  
## 659 816-72-8853 A Member Female Sports and travel 27.93  
## 660 491-38-3499 A Member Male Fashion accessories 55.45  
## 661 322-02-2271 B Normal Female Sports and travel 42.97  
## 662 842-29-4695 C Member Male Sports and travel 17.14  
## 663 725-67-2480 B Member Female Fashion accessories 58.75  
## 664 641-51-2661 C Member Female Food and beverages 87.10  
## 665 714-02-3114 C Normal Female Sports and travel 98.80  
## 666 518-17-2983 A Normal Female Fashion accessories 48.63  
## 667 779-42-2410 B Member Male Food and beverages 57.74  
## 668 190-14-3147 B Normal Female Health and beauty 17.97  
## 669 408-66-6712 C Member Female Health and beauty 47.71  
## 670 679-22-6530 B Normal Female Sports and travel 40.62  
## 671 588-47-8641 A Member Male Fashion accessories 56.04  
## 672 642-61-4706 B Member Male Food and beverages 93.40  
## 673 576-31-4774 B Normal Female Health and beauty 73.41  
## 674 556-41-6224 C Normal Male Health and beauty 33.64  
## 675 811-03-8790 A Normal Female Electronic accessories 45.48  
## 676 242-11-3142 B Member Male Fashion accessories 83.77  
## 677 752-23-3760 B Member Female Sports and travel 64.08  
## 678 274-05-5470 A Member Female Food and beverages 73.47  
## 679 648-94-3045 C Normal Male Health and beauty 58.95  
## 680 130-67-4723 A Member Male Food and beverages 48.50  
## 681 528-87-5606 B Member Female Electronic accessories 39.48  
## 682 320-85-2052 B Normal Female Sports and travel 34.81  
## 683 370-96-0655 C Normal Female Fashion accessories 49.32  
## 684 105-10-6182 A Member Male Fashion accessories 21.48  
## 685 510-79-0415 B Member Female Sports and travel 23.08  
## 686 241-96-5076 B Member Female Home and lifestyle 49.10  
## 687 767-97-4650 B Member Female Sports and travel 64.83  
## 688 648-83-1321 A Member Male Home and lifestyle 63.56  
## 689 173-57-2300 C Member Male Sports and travel 72.88  
## 690 305-03-2383 A Normal Female Food and beverages 67.10  
## 691 394-55-6384 C Member Female Sports and travel 70.19  
## 692 266-20-6657 C Member Male Food and beverages 55.04  
## 693 689-05-1884 A Member Male Health and beauty 48.63  
## 694 196-01-2849 C Member Female Fashion accessories 73.38  
## 695 372-62-5264 C Normal Female Food and beverages 52.60  
## 696 800-09-8606 A Member Female Home and lifestyle 87.37  
## 697 182-52-7000 A Member Female Sports and travel 27.04  
## 698 826-58-8051 B Normal Male Home and lifestyle 62.19  
## 699 868-06-0466 A Member Male Electronic accessories 69.58  
## 700 751-41-9720 C Normal Male Home and lifestyle 97.50  
## 701 626-43-7888 C Normal Female Fashion accessories 60.41  
## 702 176-64-7711 B Normal Male Food and beverages 32.32  
## 703 191-29-0321 B Member Female Fashion accessories 19.77  
## 704 729-06-2010 B Member Male Health and beauty 80.47  
## 705 640-48-5028 B Member Female Home and lifestyle 88.39  
## 706 186-79-9562 B Normal Male Health and beauty 71.77  
## 707 834-45-5519 B Normal Female Electronic accessories 43.00  
## 708 162-65-8559 C Member Male Food and beverages 68.98  
## 709 760-27-5490 C Normal Male Fashion accessories 15.62  
## 710 445-30-9252 A Normal Male Sports and travel 25.70  
## 711 786-94-2700 A Member Male Food and beverages 80.62  
## 712 728-88-7867 C Member Female Home and lifestyle 75.53  
## 713 183-21-3799 C Normal Female Electronic accessories 77.63  
## 714 268-20-3585 C Normal Female Health and beauty 13.85  
## 715 735-32-9839 C Member Male Fashion accessories 98.70  
## 716 258-92-7466 A Normal Female Health and beauty 35.68  
## 717 857-16-3520 A Member Female Fashion accessories 71.46  
## 718 482-17-1179 A Member Male Electronic accessories 11.94  
## 719 788-21-5741 A Normal Male Fashion accessories 45.38  
## 720 821-14-9046 B Member Female Fashion accessories 17.48  
## 721 418-05-0656 B Normal Female Fashion accessories 25.56  
## 722 678-79-0726 C Member Female Sports and travel 90.63  
## 723 776-68-1096 B Normal Male Home and lifestyle 44.12  
## 724 592-46-1692 C Member Female Food and beverages 36.77  
## 725 434-35-9162 B Member Male Food and beverages 23.34  
## 726 149-14-0304 C Member Female Health and beauty 28.50  
## 727 442-44-6497 C Member Male Home and lifestyle 55.57  
## 728 174-64-0215 B Normal Male Sports and travel 69.74  
## 729 210-74-9613 C Normal Male Fashion accessories 97.26  
## 730 299-29-0180 B Member Female Home and lifestyle 52.18  
## 731 247-11-2470 A Member Female Fashion accessories 22.32  
## 732 635-28-5728 A Normal Male Health and beauty 56.00  
## 733 756-49-0168 A Member Male Fashion accessories 19.70  
## 734 438-23-1242 B Normal Male Electronic accessories 75.88  
## 735 238-45-6950 B Member Male Food and beverages 53.72  
## 736 607-65-2441 C Member Male Health and beauty 81.95  
## 737 386-27-7606 C Member Female Home and lifestyle 81.20  
## 738 137-63-5492 C Normal Male Electronic accessories 58.76  
## 739 197-77-7132 B Member Male Electronic accessories 91.56  
## 740 805-86-0265 A Normal Male Home and lifestyle 93.96  
## 741 733-29-1227 C Normal Male Home and lifestyle 55.61  
## 742 451-73-2711 C Normal Male Food and beverages 84.83  
## 743 373-14-0504 A Member Female Sports and travel 71.63  
## 744 546-80-2899 A Member Male Home and lifestyle 37.69  
## 745 345-68-9016 C Member Female Sports and travel 31.67  
## 746 390-17-5806 C Member Female Food and beverages 38.42  
## 747 457-13-1708 B Member Male Fashion accessories 65.23  
## 748 664-14-2882 C Member Female Home and lifestyle 10.53  
## 749 487-79-6868 B Member Female Home and lifestyle 12.29  
## 750 314-23-4520 C Member Male Health and beauty 81.23  
## 751 210-30-7976 B Member Female Fashion accessories 22.32  
## 752 585-86-8361 A Normal Female Food and beverages 27.28  
## 753 807-14-7833 A Member Female Electronic accessories 17.42  
## 754 775-72-1988 B Normal Male Home and lifestyle 73.28  
## 755 288-38-3758 C Member Female Fashion accessories 84.87  
## 756 652-43-6591 A Normal Female Fashion accessories 97.29  
## 757 785-96-0615 B Member Female Electronic accessories 35.74  
## 758 406-46-7107 A Normal Female Home and lifestyle 96.52  
## 759 250-17-5703 A Member Male Food and beverages 18.85  
## 760 156-95-3964 A Normal Female Food and beverages 55.39  
## 761 842-40-8179 B Member Female Food and beverages 77.20  
## 762 525-09-8450 B Normal Male Electronic accessories 72.13  
## 763 410-67-1709 A Member Female Fashion accessories 63.88  
## 764 587-73-4862 A Member Female Health and beauty 10.69  
## 765 787-87-2010 A Member Male Health and beauty 55.50  
## 766 593-14-4239 B Normal Female Home and lifestyle 95.46  
## 767 801-88-0346 C Normal Female Fashion accessories 76.06  
## 768 388-76-2555 B Normal Male Sports and travel 13.69  
## 769 711-31-1234 B Normal Female Electronic accessories 95.64  
## 770 886-54-6089 A Normal Female Home and lifestyle 11.43  
## 771 707-32-7409 B Member Female Sports and travel 95.54  
## 772 759-98-4285 C Member Female Health and beauty 85.87  
## 773 201-63-8275 C Member Female Sports and travel 67.99  
## 774 471-06-8611 C Normal Female Food and beverages 52.42  
## 775 200-16-5952 C Member Male Food and beverages 65.65  
## 776 120-54-2248 B Normal Female Food and beverages 28.86  
## 777 102-77-2261 C Member Male Health and beauty 65.31  
## 778 875-31-8302 B Normal Male Sports and travel 93.38  
## 779 102-06-2002 C Member Male Sports and travel 25.25  
## 780 457-94-0464 B Member Male Electronic accessories 87.87  
## 781 629-42-4133 C Normal Male Health and beauty 21.80  
## 782 534-53-3526 A Normal Female Sports and travel 94.76  
## 783 307-04-2070 A Member Female Fashion accessories 30.62  
## 784 468-99-7231 C Normal Female Home and lifestyle 44.01  
## 785 516-77-6464 C Member Female Health and beauty 10.16  
## 786 404-91-5964 A Normal Male Electronic accessories 74.58  
## 787 886-77-9084 C Normal Male Electronic accessories 71.89  
## 788 790-38-4466 C Normal Female Health and beauty 10.99  
## 789 704-10-4056 C Member Male Health and beauty 60.47  
## 790 497-37-6538 A Normal Male Sports and travel 58.91  
## 791 651-96-5970 A Normal Male Fashion accessories 46.41  
## 792 400-80-4065 C Member Male Health and beauty 68.55  
## 793 744-16-7898 B Normal Female Home and lifestyle 97.37  
## 794 263-12-5321 A Member Male Electronic accessories 92.60  
## 795 702-72-0487 A Normal Female Electronic accessories 46.61  
## 796 605-83-1050 B Normal Male Fashion accessories 27.18  
## 797 443-60-9639 C Member Female Home and lifestyle 60.87  
## 798 864-24-7918 A Member Female Sports and travel 24.49  
## 799 359-94-5395 B Normal Male Health and beauty 92.78  
## 800 401-09-4232 C Member Male Home and lifestyle 86.69  
## 801 751-15-6198 B Normal Male Sports and travel 23.01  
## 802 324-41-6833 C Member Female Electronic accessories 30.20  
## 803 474-33-8305 C Member Male Fashion accessories 67.39  
## 804 759-29-9521 A Member Female Fashion accessories 48.96  
## 805 831-81-6575 B Member Female Electronic accessories 75.59  
## 806 220-68-6701 A Normal Female Home and lifestyle 77.47  
## 807 618-34-8551 A Normal Female Sports and travel 93.18  
## 808 257-60-7754 A Normal Female Electronic accessories 50.23  
## 809 559-61-5987 B Normal Female Health and beauty 17.75  
## 810 189-55-2313 C Normal Female Fashion accessories 62.18  
## 811 565-91-4567 B Normal Male Health and beauty 10.75  
## 812 380-60-5336 A Normal Female Electronic accessories 40.26  
## 813 815-04-6282 C Member Female Sports and travel 64.97  
## 814 674-56-6360 A Normal Male Electronic accessories 95.15  
## 815 778-34-2523 A Member Female Electronic accessories 48.62  
## 816 499-27-7781 B Normal Female Food and beverages 53.21  
## 817 477-59-2456 C Normal Female Fashion accessories 45.44  
## 818 832-51-6761 A Normal Male Food and beverages 33.88  
## 819 869-11-3082 B Member Male Health and beauty 96.16  
## 820 190-59-3964 B Member Male Food and beverages 47.16  
## 821 366-43-6862 B Normal Male Electronic accessories 52.89  
## 822 186-43-8965 A Member Female Home and lifestyle 47.68  
## 823 784-21-9238 C Member Male Sports and travel 10.17  
## 824 276-75-6884 A Normal Female Health and beauty 68.71  
## 825 109-86-4363 B Member Female Sports and travel 60.08  
## 826 569-76-2760 A Member Female Sports and travel 22.01  
## 827 222-42-0244 B Member Female Health and beauty 72.11  
## 828 760-53-9233 A Member Male Fashion accessories 41.28  
## 829 538-22-0304 C Normal Male Electronic accessories 64.95  
## 830 416-17-9926 A Member Female Electronic accessories 74.22  
## 831 237-44-6163 A Normal Male Electronic accessories 10.56  
## 832 636-17-0325 B Normal Male Health and beauty 62.57  
## 833 343-75-9322 B Member Female Sports and travel 11.85  
## 834 528-14-9470 A Member Male Health and beauty 91.30  
## 835 427-45-9297 B Member Female Home and lifestyle 40.73  
## 836 807-34-3742 A Normal Male Fashion accessories 52.38  
## 837 288-62-1085 A Member Male Fashion accessories 38.54  
## 838 670-71-7306 B Normal Male Sports and travel 44.63  
## 839 660-29-7083 C Normal Male Electronic accessories 55.87  
## 840 271-77-8740 C Member Female Sports and travel 29.22  
## 841 497-36-0989 A Normal Male Fashion accessories 51.94  
## 842 291-59-1384 B Normal Male Electronic accessories 60.30  
## 843 860-73-6466 A Member Female Sports and travel 39.47  
## 844 549-23-9016 C Member Female Food and beverages 14.87  
## 845 896-34-0956 A Normal Male Fashion accessories 21.32  
## 846 804-38-3935 A Member Male Electronic accessories 93.78  
## 847 585-90-0249 A Member Male Electronic accessories 73.26  
## 848 862-29-5914 C Normal Female Sports and travel 22.38  
## 849 845-94-6841 C Member Female Food and beverages 72.88  
## 850 125-45-2293 A Normal Female Fashion accessories 99.10  
## 851 843-73-4724 A Normal Male Fashion accessories 74.10  
## 852 409-33-9708 A Normal Female Fashion accessories 98.48  
## 853 658-66-3967 C Normal Male Health and beauty 53.19  
## 854 866-70-2814 B Normal Female Electronic accessories 52.79  
## 855 160-22-2687 A Member Female Health and beauty 95.95  
## 856 895-03-6665 B Normal Female Fashion accessories 36.51  
## 857 770-42-8960 B Normal Male Food and beverages 21.12  
## 858 748-45-2862 A Member Female Home and lifestyle 28.31  
## 859 234-36-2483 B Normal Male Health and beauty 57.59  
## 860 316-66-3011 A Member Female Food and beverages 47.63  
## 861 848-95-6252 C Member Female Home and lifestyle 86.27  
## 862 840-76-5966 A Member Male Sports and travel 12.76  
## 863 152-03-4217 B Normal Female Home and lifestyle 11.28  
## 864 533-66-5566 B Normal Female Home and lifestyle 51.07  
## 865 124-31-1458 A Member Female Electronic accessories 79.59  
## 866 176-78-1170 C Member Male Health and beauty 33.81  
## 867 361-59-0574 B Member Male Sports and travel 90.53  
## 868 101-81-4070 C Member Female Health and beauty 62.82  
## 869 631-34-1880 C Member Male Food and beverages 24.31  
## 870 852-82-2749 A Normal Male Sports and travel 64.59  
## 871 873-14-6353 A Member Male Food and beverages 24.82  
## 872 584-66-4073 C Normal Male Fashion accessories 56.50  
## 873 544-55-9589 B Member Female Electronic accessories 21.43  
## 874 166-19-2553 A Member Male Sports and travel 89.06  
## 875 737-88-5876 A Member Male Home and lifestyle 23.29  
## 876 154-87-7367 C Normal Male Home and lifestyle 65.26  
## 877 885-56-0389 C Member Male Fashion accessories 52.35  
## 878 608-05-3804 B Member Male Electronic accessories 39.75  
## 879 448-61-3783 A Normal Female Electronic accessories 90.02  
## 880 761-49-0439 B Member Female Electronic accessories 12.10  
## 881 490-95-0021 B Member Female Food and beverages 33.21  
## 882 115-38-7388 C Member Female Fashion accessories 10.18  
## 883 311-13-6971 B Member Male Sports and travel 31.99  
## 884 291-55-6563 A Member Female Home and lifestyle 34.42  
## 885 548-48-3156 A Member Female Food and beverages 83.34  
## 886 460-93-5834 A Normal Male Sports and travel 45.58  
## 887 325-89-4209 A Member Male Food and beverages 87.90  
## 888 884-80-6021 A Member Female Electronic accessories 73.47  
## 889 137-74-8729 C Normal Female Fashion accessories 12.19  
## 890 880-46-5796 A Member Male Sports and travel 76.92  
## 891 389-70-2397 C Normal Female Health and beauty 83.66  
## 892 114-35-5271 B Normal Female Electronic accessories 57.91  
## 893 607-76-6216 C Member Female Fashion accessories 92.49  
## 894 715-20-1673 B Normal Male Electronic accessories 28.38  
## 895 811-35-1094 B Member Male Electronic accessories 50.45  
## 896 699-88-1972 B Normal Male Health and beauty 99.16  
## 897 781-84-8059 C Normal Male Fashion accessories 60.74  
## 898 409-49-6995 C Member Female Food and beverages 47.27  
## 899 725-54-0677 C Member Male Health and beauty 85.60  
## 900 146-09-5432 A Member Male Food and beverages 35.04  
## 901 377-79-7592 C Member Female Electronic accessories 44.84  
## 902 509-10-0516 B Normal Male Home and lifestyle 45.97  
## 903 595-94-9924 A Member Female Health and beauty 27.73  
## 904 865-41-9075 A Normal Male Food and beverages 11.53  
## 905 545-07-8534 C Normal Female Health and beauty 58.32  
## 906 118-62-1812 C Member Female Home and lifestyle 78.38  
## 907 450-42-3339 C Normal Male Health and beauty 84.61  
## 908 851-98-3555 B Normal Female Health and beauty 82.88  
## 909 186-71-5196 A Member Female Food and beverages 79.54  
## 910 624-01-8356 B Normal Female Home and lifestyle 49.01  
## 911 313-66-9943 B Member Female Food and beverages 29.15  
## 912 151-27-8496 C Normal Female Electronic accessories 56.13  
## 913 453-33-6436 A Normal Female Home and lifestyle 93.12  
## 914 522-57-8364 A Member Male Fashion accessories 51.34  
## 915 459-45-2396 A Member Female Food and beverages 99.60  
## 916 717-96-4189 C Normal Female Electronic accessories 35.49  
## 917 722-13-2115 C Member Male Sports and travel 42.85  
## 918 749-81-8133 A Normal Female Fashion accessories 94.67  
## 919 777-67-2495 B Normal Male Home and lifestyle 68.97  
## 920 636-98-3364 B Member Female Electronic accessories 26.26  
## 921 246-55-6923 C Member Female Home and lifestyle 35.79  
## 922 181-82-6255 B Normal Female Home and lifestyle 16.37  
## 923 838-02-1821 C Member Female Home and lifestyle 12.73  
## 924 887-42-0517 C Normal Female Sports and travel 83.14  
## 925 457-12-0244 C Member Female Sports and travel 35.22  
## 926 226-34-0034 B Normal Female Electronic accessories 13.78  
## 927 321-49-7382 B Member Male Sports and travel 88.31  
## 928 397-25-8725 A Member Female Health and beauty 39.62  
## 929 431-66-2305 B Normal Female Electronic accessories 88.25  
## 930 825-94-5922 B Normal Male Sports and travel 25.31  
## 931 641-62-7288 B Normal Male Home and lifestyle 99.92  
## 932 756-93-1854 C Member Female Fashion accessories 83.35  
## 933 243-55-8457 A Normal Female Food and beverages 74.44  
## 934 458-10-8612 C Normal Male Health and beauty 64.08  
## 935 501-61-1753 B Normal Female Home and lifestyle 63.15  
## 936 235-06-8510 C Member Male Home and lifestyle 85.72  
## 937 433-08-7822 C Normal Female Health and beauty 78.89  
## 938 361-85-2571 A Normal Female Sports and travel 89.48  
## 939 131-70-8179 A Member Female Health and beauty 92.09  
## 940 500-02-2261 C Normal Female Food and beverages 57.29  
## 941 720-72-2436 A Normal Male Food and beverages 66.52  
## 942 702-83-5291 C Member Male Fashion accessories 99.82  
## 943 809-69-9497 A Normal Female Home and lifestyle 45.68  
## 944 449-16-6770 A Normal Male Health and beauty 50.79  
## 945 333-23-2632 A Member Male Health and beauty 10.08  
## 946 489-82-1237 A Normal Female Electronic accessories 93.88  
## 947 859-97-6048 C Member Male Electronic accessories 84.25  
## 948 676-10-2200 B Member Male Fashion accessories 53.78  
## 949 373-88-1424 C Member Male Home and lifestyle 35.81  
## 950 365-16-4334 B Normal Female Food and beverages 26.43  
## 951 503-21-4385 B Member Male Health and beauty 39.91  
## 952 305-89-2768 B Member Female Home and lifestyle 21.90  
## 953 574-80-1489 B Member Female Food and beverages 62.85  
## 954 784-08-0310 C Member Female Food and beverages 21.04  
## 955 200-40-6154 B Member Male Home and lifestyle 65.91  
## 956 846-10-0341 A Normal Female Fashion accessories 42.57  
## 957 577-34-7579 C Member Male Food and beverages 50.49  
## 958 430-02-3888 B Normal Male Electronic accessories 46.02  
## 959 867-47-1948 C Normal Female Home and lifestyle 15.80  
## 960 384-59-6655 A Member Female Food and beverages 98.66  
## 961 256-58-3609 C Member Male Fashion accessories 91.98  
## 962 324-92-3863 A Member Male Electronic accessories 20.89  
## 963 593-08-5916 A Normal Female Fashion accessories 15.50  
## 964 364-34-2972 C Member Male Electronic accessories 96.82  
## 965 794-42-3736 B Normal Male Food and beverages 33.33  
## 966 172-42-8274 B Normal Female Electronic accessories 38.27  
## 967 558-60-5016 A Normal Female Home and lifestyle 33.30  
## 968 195-06-0432 A Member Male Home and lifestyle 81.01  
## 969 605-03-2706 A Normal Female Health and beauty 15.80  
## 970 214-30-2776 B Member Female Electronic accessories 34.49  
## 971 746-04-1077 B Member Female Food and beverages 84.63  
## 972 448-34-8700 B Member Male Home and lifestyle 36.91  
## 973 452-04-8808 B Normal Male Electronic accessories 87.08  
## 974 531-56-4728 A Normal Male Home and lifestyle 80.08  
## 975 744-82-9138 C Normal Male Fashion accessories 86.13  
## 976 883-69-1285 B Member Male Fashion accessories 49.92  
## 977 221-25-5073 A Normal Female Food and beverages 74.66  
## 978 518-71-6847 B Member Male Food and beverages 26.60  
## 979 156-20-0370 B Normal Female Electronic accessories 25.45  
## 980 151-33-7434 B Normal Female Food and beverages 67.77  
## 981 728-47-9078 C Member Male Food and beverages 59.59  
## 982 809-46-1866 A Normal Male Health and beauty 58.15  
## 983 139-32-4183 A Member Female Sports and travel 97.48  
## 984 148-41-7930 C Normal Male Health and beauty 99.96  
## 985 189-40-5216 C Normal Male Electronic accessories 96.37  
## 986 374-38-5555 B Normal Female Fashion accessories 63.71  
## 987 764-44-8999 B Normal Female Health and beauty 14.76  
## 988 552-44-5977 B Member Male Health and beauty 62.00  
## 989 267-62-7380 C Member Male Electronic accessories 82.34  
## 990 430-53-4718 B Member Male Health and beauty 75.37  
## 991 886-18-2897 A Normal Female Food and beverages 56.56  
## 992 602-16-6955 B Normal Female Sports and travel 76.60  
## 993 745-74-0715 A Normal Male Electronic accessories 58.03  
## 994 690-01-6631 B Normal Male Fashion accessories 17.49  
## 995 652-49-6720 C Member Female Electronic accessories 60.95  
## 996 233-67-5758 C Normal Male Health and beauty 40.35  
## 997 303-96-2227 B Normal Female Home and lifestyle 97.38  
## 998 727-02-1313 A Member Male Food and beverages 31.84  
## 999 347-56-2442 A Normal Male Home and lifestyle 65.82  
## 1000 849-09-3807 A Member Female Fashion accessories 88.34  
## Quantity Tax Date Time Payment cogs  
## 1 7 26.1415 1/5/2019 13:08 Ewallet 522.83  
## 2 5 3.8200 3/8/2019 10:29 Cash 76.40  
## 3 7 16.2155 3/3/2019 13:23 Credit card 324.31  
## 4 8 23.2880 1/27/2019 20:33 Ewallet 465.76  
## 5 7 30.2085 2/8/2019 10:37 Ewallet 604.17  
## 6 7 29.8865 3/25/2019 18:30 Ewallet 597.73  
## 7 6 20.6520 2/25/2019 14:36 Ewallet 413.04  
## 8 10 36.7800 2/24/2019 11:38 Ewallet 735.60  
## 9 2 3.6260 1/10/2019 17:15 Credit card 72.52  
## 10 3 8.2260 2/20/2019 13:27 Credit card 164.52  
## 11 4 2.8960 2/6/2019 18:07 Ewallet 57.92  
## 12 4 5.1020 3/9/2019 17:03 Cash 102.04  
## 13 5 11.7375 2/12/2019 10:25 Ewallet 234.75  
## 14 10 21.5950 2/7/2019 16:48 Ewallet 431.90  
## 15 10 35.6900 3/29/2019 19:21 Cash 713.80  
## 16 6 28.1160 1/15/2019 16:19 Cash 562.32  
## 17 7 24.1255 3/11/2019 11:03 Credit card 482.51  
## 18 6 21.7830 1/1/2019 10:39 Credit card 435.66  
## 19 3 8.2005 1/21/2019 18:00 Credit card 164.01  
## 20 2 4.0300 3/11/2019 15:30 Ewallet 80.60  
## 21 5 21.5100 2/25/2019 11:24 Ewallet 430.20  
## 22 3 13.1970 3/5/2019 10:40 Ewallet 263.94  
## 23 2 3.3200 3/15/2019 12:20 Credit card 66.40  
## 24 5 8.6400 2/17/2019 11:15 Ewallet 172.80  
## 25 3 13.2945 3/2/2019 17:36 Ewallet 265.89  
## 26 8 21.0360 3/22/2019 19:20 Credit card 420.72  
## 27 1 1.6760 2/8/2019 15:31 Cash 33.52  
## 28 2 8.7670 3/10/2019 12:17 Credit card 175.34  
## 29 5 22.0900 1/25/2019 19:48 Cash 441.80  
## 30 9 11.2005 3/15/2019 15:36 Cash 224.01  
## 31 5 23.5325 2/25/2019 19:39 Credit card 470.65  
## 32 9 35.1315 1/28/2019 12:43 Cash 702.63  
## 33 8 33.5120 1/10/2019 14:49 Cash 670.24  
## 34 2 9.6580 3/15/2019 10:12 Credit card 193.16  
## 35 4 19.8840 2/6/2019 10:42 Ewallet 397.68  
## 36 1 3.4060 1/7/2019 12:28 Ewallet 68.12  
## 37 5 15.6550 3/10/2019 19:15 Ewallet 313.10  
## 38 9 27.3960 1/15/2019 17:17 Ewallet 547.92  
## 39 8 21.9680 3/23/2019 13:24 Ewallet 439.36  
## 40 8 12.0480 3/3/2019 13:01 Cash 240.96  
## 41 1 4.3360 1/17/2019 18:45 Ewallet 86.72  
## 42 2 5.6110 2/2/2019 10:11 Cash 112.22  
## 43 6 20.7360 2/8/2019 13:03 Cash 414.72  
## 44 8 39.4800 3/4/2019 20:39 Cash 789.60  
## 45 2 1.5370 3/16/2019 19:47 Cash 30.74  
## 46 4 18.7920 3/9/2019 18:00 Cash 375.84  
## 47 9 25.5105 2/27/2019 17:24 Credit card 510.21  
## 48 9 9.0045 2/6/2019 15:47 Ewallet 180.09  
## 49 6 5.6790 2/10/2019 12:45 Credit card 113.58  
## 50 10 41.3150 3/19/2019 17:08 Ewallet 826.30  
## 51 7 31.9900 2/3/2019 10:19 Cash 639.80  
## 52 5 11.1475 2/10/2019 15:10 Cash 222.95  
## 53 4 3.5740 3/22/2019 14:42 Ewallet 71.48  
## 54 1 0.7715 1/25/2019 15:46 Credit card 15.43  
## 55 2 1.6160 3/7/2019 11:49 Ewallet 32.32  
## 56 8 34.3920 2/28/2019 19:01 Cash 687.84  
## 57 2 4.4340 3/27/2019 11:26 Cash 88.68  
## 58 8 35.8400 2/7/2019 11:28 Ewallet 716.80  
## 59 10 36.1750 1/20/2019 15:55 Cash 723.50  
## 60 6 9.1830 3/12/2019 20:36 Cash 183.66  
## 61 3 3.7110 2/15/2019 17:47 Credit card 74.22  
## 62 6 16.7190 2/24/2019 10:55 Ewallet 334.38  
## 63 9 24.7815 2/3/2019 13:40 Ewallet 495.63  
## 64 10 7.9050 3/6/2019 12:27 Credit card 158.10  
## 65 4 15.1480 2/14/2019 14:35 Cash 302.96  
## 66 10 7.9350 3/13/2019 16:40 Cash 158.70  
## 67 2 3.3470 2/10/2019 15:43 Ewallet 66.94  
## 68 6 29.2830 1/7/2019 15:01 Ewallet 585.66  
## 69 10 39.3850 1/24/2019 10:04 Cash 787.70  
## 70 1 0.9165 2/2/2019 18:50 Cash 18.33  
## 71 10 44.7400 1/6/2019 12:46 Credit card 894.80  
## 72 10 31.0600 2/11/2019 16:19 Cash 621.20  
## 73 3 7.2780 3/5/2019 18:17 Ewallet 145.56  
## 74 6 22.7730 3/9/2019 18:21 Cash 455.46  
## 75 9 33.6015 1/22/2019 10:55 Ewallet 672.03  
## 76 10 20.8250 1/13/2019 17:04 Credit card 416.50  
## 77 9 22.0680 1/9/2019 14:20 Credit card 441.36  
## 78 9 9.0045 1/12/2019 15:48 Credit card 180.09  
## 79 10 39.1550 3/5/2019 16:24 Ewallet 783.10  
## 80 5 5.0950 1/22/2019 18:56 Cash 101.90  
## 81 6 29.7570 1/21/2019 14:42 Credit card 595.14  
## 82 3 14.5020 1/26/2019 19:56 Ewallet 290.04  
## 83 8 7.7000 1/23/2019 18:37 Ewallet 154.00  
## 84 4 16.0720 2/23/2019 18:45 Credit card 321.44  
## 85 5 12.2275 3/9/2019 10:17 Cash 244.55  
## 86 7 29.0710 3/5/2019 14:31 Ewallet 581.42  
## 87 5 19.1300 3/25/2019 10:23 Cash 382.60  
## 88 7 17.2830 3/27/2019 20:35 Credit card 345.66  
## 89 1 2.1235 1/2/2019 16:57 Cash 42.47  
## 90 6 23.0970 2/27/2019 17:55 Cash 461.94  
## 91 4 9.4760 1/23/2019 10:25 Cash 189.52  
## 92 10 22.4300 1/26/2019 19:54 Ewallet 448.60  
## 93 7 7.6930 1/10/2019 16:42 Ewallet 153.86  
## 94 9 28.9620 3/12/2019 12:09 Credit card 579.24  
## 95 1 4.4875 2/6/2019 20:05 Credit card 89.75  
## 96 1 4.8580 3/8/2019 20:38 Ewallet 97.16  
## 97 10 43.9350 3/29/2019 10:25 Ewallet 878.70  
## 98 6 3.7350 2/9/2019 13:11 Cash 74.70  
## 99 3 7.9125 3/23/2019 10:16 Ewallet 158.25  
## 100 6 24.8100 3/5/2019 18:14 Cash 496.20  
## 101 1 2.4355 3/26/2019 19:20 Cash 48.71  
## 102 9 35.3475 3/1/2019 13:22 Cash 706.95  
## 103 9 10.3815 2/1/2019 11:27 Cash 207.63  
## 104 6 17.4780 3/28/2019 16:44 Cash 349.56  
## 105 7 10.6225 3/19/2019 18:19 Cash 212.45  
## 106 10 44.3350 1/12/2019 14:50 Ewallet 886.70  
## 107 6 8.2140 1/5/2019 20:54 Credit card 164.28  
## 108 6 18.6390 3/22/2019 20:19 Cash 372.78  
## 109 9 15.2910 3/24/2019 10:43 Cash 305.82  
## 110 10 40.9850 3/3/2019 14:30 Cash 819.70  
## 111 2 1.6490 2/5/2019 11:32 Ewallet 32.98  
## 112 3 14.7315 2/5/2019 10:41 Credit card 294.63  
## 113 7 25.4940 2/15/2019 12:44 Cash 509.88  
## 114 9 26.1315 1/19/2019 20:07 Ewallet 522.63  
## 115 9 36.3555 2/1/2019 20:31 Credit card 727.11  
## 116 3 4.0530 3/2/2019 13:01 Credit card 81.06  
## 117 5 5.4850 3/5/2019 12:29 Ewallet 109.70  
## 118 1 2.5680 1/16/2019 15:26 Ewallet 51.36  
## 119 10 5.4800 2/2/2019 20:48 Ewallet 109.60  
## 120 2 5.3440 1/20/2019 20:38 Ewallet 106.88  
## 121 8 39.8240 2/14/2019 17:03 Credit card 796.48  
## 122 7 19.9920 1/12/2019 12:02 Credit card 399.84  
## 123 9 44.9820 3/9/2019 17:26 Credit card 899.64  
## 124 8 25.5640 3/13/2019 19:52 Credit card 511.28  
## 125 8 22.5880 3/9/2019 14:57 Ewallet 451.76  
## 126 7 32.7915 3/10/2019 18:44 Credit card 655.83  
## 127 5 8.0625 1/27/2019 13:26 Cash 161.25  
## 128 9 14.2785 1/8/2019 16:17 Credit card 285.57  
## 129 8 27.4160 1/8/2019 15:57 Ewallet 548.32  
## 130 9 40.6260 2/8/2019 11:15 Ewallet 812.52  
## 131 7 13.8670 1/25/2019 13:18 Cash 277.34  
## 132 6 27.6390 3/6/2019 20:34 Cash 552.78  
## 133 4 6.9680 2/10/2019 18:36 Cash 139.36  
## 134 6 26.2350 2/17/2019 14:40 Credit card 524.70  
## 135 6 24.3900 3/8/2019 16:43 Ewallet 487.80  
## 136 3 13.5330 2/18/2019 19:39 Cash 270.66  
## 137 5 6.5775 1/18/2019 20:59 Credit card 131.55  
## 138 6 10.3260 2/18/2019 15:39 Cash 206.52  
## 139 10 25.9550 2/16/2019 12:21 Cash 519.10  
## 140 8 29.0000 3/16/2019 19:25 Ewallet 580.00  
## 141 10 44.9000 1/23/2019 13:00 Credit card 898.00  
## 142 10 45.2500 1/25/2019 13:48 Cash 905.00  
## 143 10 34.3000 2/5/2019 19:57 Cash 686.00  
## 144 1 1.5205 2/22/2019 10:36 Credit card 30.41  
## 145 6 23.3850 1/21/2019 16:37 Ewallet 467.70  
## 146 6 13.8780 3/8/2019 17:11 Credit card 277.56  
## 147 10 15.0700 2/10/2019 12:28 Ewallet 301.40  
## 148 4 13.2280 3/19/2019 12:46 Credit card 264.56  
## 149 8 28.7440 3/6/2019 15:07 Credit card 574.88  
## 150 8 12.9840 3/27/2019 13:48 Credit card 259.68  
## 151 4 18.3080 3/23/2019 19:20 Credit card 366.16  
## 152 7 12.0960 3/11/2019 16:07 Credit card 241.92  
## 153 9 37.4580 1/29/2019 11:56 Credit card 749.16  
## 154 6 4.9440 2/7/2019 18:23 Ewallet 98.88  
## 155 8 32.3880 1/28/2019 13:05 Cash 647.76  
## 156 5 23.0725 2/20/2019 15:55 Credit card 461.45  
## 157 1 3.6085 1/4/2019 19:40 Cash 72.17  
## 158 5 12.5700 3/7/2019 13:58 Ewallet 251.40  
## 159 9 43.7490 3/30/2019 14:43 Ewallet 874.98  
## 160 6 28.0170 3/27/2019 19:18 Ewallet 560.34  
## 161 8 17.2720 1/19/2019 19:39 Credit card 345.44  
## 162 1 3.1845 2/25/2019 16:21 Cash 63.69  
## 163 7 16.0265 3/13/2019 19:44 Credit card 320.53  
## 164 2 7.6400 1/30/2019 19:42 Ewallet 152.80  
## 165 10 19.9500 2/20/2019 15:24 Credit card 399.00  
## 166 8 17.0280 2/25/2019 14:12 Ewallet 340.56  
## 167 10 47.7900 1/16/2019 13:32 Cash 955.80  
## 168 10 49.4900 2/8/2019 16:20 Credit card 989.80  
## 169 6 15.3840 1/19/2019 16:31 Cash 307.68  
## 170 7 24.3320 2/1/2019 15:10 Credit card 486.64  
## 171 5 17.5025 1/3/2019 11:36 Ewallet 350.05  
## 172 5 20.0125 1/26/2019 12:45 Credit card 400.25  
## 173 8 8.3400 3/3/2019 19:17 Cash 166.80  
## 174 6 15.8670 1/19/2019 17:34 Credit card 317.34  
## 175 8 7.9160 1/18/2019 12:04 Ewallet 158.32  
## 176 9 15.2280 3/21/2019 16:21 Ewallet 304.56  
## 177 8 8.8680 3/3/2019 17:01 Credit card 177.36  
## 178 7 7.8785 2/13/2019 10:50 Credit card 157.57  
## 179 6 22.1640 3/23/2019 19:16 Ewallet 443.28  
## 180 3 13.0200 1/28/2019 16:47 Ewallet 260.40  
## 181 7 22.4910 2/9/2019 10:00 Cash 449.82  
## 182 8 15.3880 1/23/2019 11:51 Cash 307.76  
## 183 10 7.7500 3/23/2019 10:55 Ewallet 155.00  
## 184 8 13.7240 1/25/2019 15:00 Ewallet 274.48  
## 185 7 4.3190 3/4/2019 11:19 Credit card 86.38  
## 186 3 2.7120 3/5/2019 19:46 Ewallet 54.24  
## 187 8 37.7960 3/3/2019 19:00 Ewallet 755.92  
## 188 4 9.2940 2/8/2019 10:53 Cash 185.88  
## 189 1 3.7035 2/10/2019 12:50 Ewallet 74.07  
## 190 4 13.9620 1/28/2019 20:50 Credit card 279.24  
## 191 3 11.5560 2/11/2019 10:39 Credit card 231.12  
## 192 2 7.3520 1/15/2019 13:41 Ewallet 147.04  
## 193 9 39.5100 3/16/2019 19:08 Cash 790.20  
## 194 4 5.1100 1/26/2019 20:23 Ewallet 102.20  
## 195 5 8.1775 3/19/2019 11:30 Credit card 163.55  
## 196 1 3.7145 1/13/2019 19:30 Cash 74.29  
## 197 2 4.3700 3/26/2019 18:03 Cash 87.40  
## 198 1 1.2645 3/23/2019 10:13 Ewallet 25.29  
## 199 4 8.3000 3/12/2019 19:58 Credit card 166.00  
## 200 5 17.8475 2/17/2019 19:57 Credit card 356.95  
## 201 6 5.7450 1/29/2019 10:01 Credit card 114.90  
## 202 4 11.4980 3/15/2019 11:57 Cash 229.96  
## 203 7 21.4935 1/14/2019 10:02 Cash 429.87  
## 204 10 12.9500 2/6/2019 14:51 Ewallet 259.00  
## 205 5 4.4425 2/15/2019 12:42 Credit card 88.85  
## 206 9 10.3635 1/3/2019 12:02 Ewallet 207.27  
## 207 9 29.9925 1/4/2019 18:19 Credit card 599.85  
## 208 10 14.2650 3/18/2019 17:38 Ewallet 285.30  
## 209 3 4.5555 3/28/2019 13:41 Ewallet 91.11  
## 210 9 44.8785 3/2/2019 19:42 Credit card 897.57  
## 211 9 11.8035 1/25/2019 20:24 Ewallet 236.07  
## 212 9 41.9670 1/16/2019 18:08 Cash 839.34  
## 213 5 23.0900 3/20/2019 19:17 Ewallet 461.80  
## 214 3 6.9630 1/4/2019 13:24 Credit card 139.26  
## 215 7 10.3635 3/11/2019 15:53 Cash 207.27  
## 216 1 0.9140 3/22/2019 15:05 Credit card 18.28  
## 217 5 6.1925 3/24/2019 18:27 Cash 123.85  
## 218 3 14.1960 2/21/2019 16:55 Cash 283.92  
## 219 8 37.9480 2/12/2019 12:58 Ewallet 758.96  
## 220 3 8.6010 3/10/2019 18:59 Credit card 172.02  
## 221 6 13.6050 1/31/2019 13:44 Ewallet 272.10  
## 222 7 21.7280 3/6/2019 13:46 Ewallet 434.56  
## 223 5 2.9525 2/17/2019 18:06 Cash 59.05  
## 224 1 0.6270 2/21/2019 12:38 Cash 12.54  
## 225 2 4.3250 3/20/2019 15:56 Cash 86.50  
## 226 2 8.7160 1/11/2019 14:29 Credit card 174.32  
## 227 9 31.2165 1/26/2019 19:14 Ewallet 624.33  
## 228 4 7.4120 1/31/2019 16:24 Ewallet 148.24  
## 229 6 27.2100 2/26/2019 10:52 Cash 544.20  
## 230 8 25.3680 3/11/2019 12:55 Ewallet 507.36  
## 231 2 8.1370 1/26/2019 19:28 Cash 162.74  
## 232 3 1.5885 3/12/2019 13:52 Credit card 31.77  
## 233 9 37.8405 2/11/2019 10:54 Cash 756.81  
## 234 4 14.7640 2/21/2019 18:31 Cash 295.28  
## 235 10 25.9700 3/9/2019 18:24 Ewallet 519.40  
## 236 2 9.3140 1/20/2019 18:09 Ewallet 186.28  
## 237 5 4.3525 1/28/2019 15:16 Credit card 87.05  
## 238 5 11.0550 3/5/2019 17:07 Credit card 221.10  
## 239 5 3.3050 3/2/2019 19:26 Cash 66.10  
## 240 1 4.4845 1/11/2019 11:20 Ewallet 89.69  
## 241 9 11.2230 1/11/2019 16:49 Credit card 224.46  
## 242 2 5.9770 3/11/2019 12:01 Credit card 119.54  
## 243 2 9.3200 2/28/2019 18:37 Credit card 186.40  
## 244 4 12.5300 1/5/2019 11:25 Cash 250.60  
## 245 8 37.5480 2/2/2019 18:42 Credit card 750.96  
## 246 8 19.0360 1/1/2019 14:47 Cash 380.72  
## 247 3 12.2100 2/9/2019 19:43 Cash 244.20  
## 248 5 4.4850 1/23/2019 14:04 Ewallet 89.70  
## 249 4 15.5440 1/7/2019 16:11 Credit card 310.88  
## 250 7 25.5710 1/14/2019 19:06 Credit card 511.42  
## 251 9 20.9475 2/2/2019 15:34 Ewallet 418.95  
## 252 10 17.5950 3/17/2019 19:06 Credit card 351.90  
## 253 2 1.4390 3/2/2019 19:44 Credit card 28.78  
## 254 4 4.7500 3/16/2019 11:22 Cash 95.00  
## 255 8 23.5600 1/6/2019 11:23 Cash 471.20  
## 256 4 6.5240 1/29/2019 14:12 Cash 130.48  
## 257 1 3.3175 1/31/2019 10:46 Credit card 66.35  
## 258 6 7.7730 2/5/2019 10:16 Ewallet 155.46  
## 259 4 6.4500 2/13/2019 12:38 Ewallet 129.00  
## 260 4 13.1880 2/7/2019 13:05 Credit card 263.76  
## 261 9 33.7770 3/19/2019 13:25 Ewallet 675.54  
## 262 4 3.2900 3/7/2019 14:53 Ewallet 65.80  
## 263 4 7.6600 3/13/2019 19:22 Cash 153.20  
## 264 10 11.1200 2/9/2019 11:00 Cash 222.40  
## 265 1 2.7225 2/26/2019 19:24 Ewallet 54.45  
## 266 7 34.4400 3/12/2019 12:43 Credit card 688.80  
## 267 4 7.0940 3/14/2019 17:22 Credit card 141.88  
## 268 10 37.3000 1/8/2019 20:55 Cash 746.00  
## 269 4 14.1480 1/5/2019 16:05 Credit card 282.96  
## 270 10 17.7700 1/4/2019 13:34 Ewallet 355.40  
## 271 5 16.8575 3/6/2019 18:13 Ewallet 337.15  
## 272 2 2.1120 1/3/2019 19:17 Cash 42.24  
## 273 9 9.6930 1/7/2019 11:44 Credit card 193.86  
## 274 2 1.2030 1/27/2019 15:51 Cash 24.06  
## 275 6 29.9130 2/26/2019 16:52 Ewallet 598.26  
## 276 7 16.7895 1/7/2019 20:52 Cash 335.79  
## 277 10 10.9100 1/7/2019 17:36 Cash 218.20  
## 278 4 19.0840 2/2/2019 13:23 Ewallet 381.68  
## 279 10 35.4950 3/20/2019 16:28 Cash 709.90  
## 280 10 22.0100 3/20/2019 19:57 Credit card 440.20  
## 281 8 27.9840 2/15/2019 17:01 Credit card 559.68  
## 282 1 1.8500 3/6/2019 13:29 Credit card 37.00  
## 283 1 0.7670 1/6/2019 11:09 Cash 15.34  
## 284 6 29.9490 3/4/2019 15:02 Ewallet 598.98  
## 285 4 9.5340 3/12/2019 14:21 Cash 190.68  
## 286 5 16.6700 2/20/2019 18:01 Cash 333.40  
## 287 1 3.7430 3/24/2019 14:49 Cash 74.86  
## 288 9 10.6875 1/31/2019 12:02 Cash 213.75  
## 289 7 16.9785 1/25/2019 13:30 Credit card 339.57  
## 290 7 33.2080 2/3/2019 14:38 Cash 664.16  
## 291 10 20.1500 1/24/2019 17:37 Credit card 403.00  
## 292 7 9.7475 3/14/2019 17:20 Ewallet 194.95  
## 293 1 3.1240 2/18/2019 20:29 Cash 62.48  
## 294 2 3.6360 1/21/2019 10:00 Cash 72.72  
## 295 10 9.0550 3/13/2019 11:46 Ewallet 181.10  
## 296 5 12.9800 3/3/2019 13:42 Cash 259.60  
## 297 4 5.7680 3/29/2019 14:44 Cash 115.36  
## 298 6 23.5140 1/10/2019 14:16 Ewallet 470.28  
## 299 4 12.0020 1/25/2019 15:54 Cash 240.04  
## 300 1 4.4305 1/19/2019 10:21 Cash 88.61  
## 301 2 9.9820 1/2/2019 18:09 Credit card 199.64  
## 302 1 1.9505 3/12/2019 16:46 Credit card 39.01  
## 303 1 2.4305 2/25/2019 15:31 Cash 48.61  
## 304 4 10.2380 3/18/2019 17:15 Credit card 204.76  
## 305 8 5.9840 2/23/2019 12:29 Cash 119.68  
## 306 7 25.2700 3/26/2019 20:14 Ewallet 505.40  
## 307 7 14.0805 3/30/2019 13:22 Cash 281.61  
## 308 8 35.5160 2/17/2019 17:09 Cash 710.32  
## 309 3 3.9720 3/21/2019 10:40 Ewallet 79.44  
## 310 2 8.1910 3/5/2019 17:43 Cash 163.82  
## 311 6 23.9790 1/31/2019 14:04 Cash 479.58  
## 312 2 6.9330 2/5/2019 19:05 Ewallet 138.66  
## 313 5 3.5575 2/1/2019 10:08 Credit card 71.15  
## 314 9 6.9975 3/7/2019 13:12 Cash 139.95  
## 315 10 39.0650 2/10/2019 20:51 Cash 781.30  
## 316 2 9.9370 2/14/2019 17:29 Cash 198.74  
## 317 3 3.1620 2/9/2019 10:25 Cash 63.24  
## 318 5 18.6975 1/10/2019 11:34 Cash 373.95  
## 319 7 10.3845 3/11/2019 18:58 Credit card 207.69  
## 320 4 8.8140 2/18/2019 16:28 Ewallet 176.28  
## 321 9 10.3185 2/26/2019 20:26 Cash 206.37  
## 322 1 1.9710 1/18/2019 15:08 Cash 39.42  
## 323 6 4.5780 2/15/2019 18:03 Ewallet 91.56  
## 324 5 15.4425 3/8/2019 13:21 Cash 308.85  
## 325 6 6.4560 1/17/2019 12:48 Credit card 129.12  
## 326 4 19.5480 3/12/2019 19:53 Ewallet 390.96  
## 327 5 24.9450 3/9/2019 19:09 Cash 498.90  
## 328 4 18.8520 3/12/2019 16:30 Cash 377.04  
## 329 4 10.2260 1/25/2019 10:11 Credit card 204.52  
## 330 4 7.2720 3/25/2019 13:07 Cash 145.44  
## 331 9 9.9090 2/7/2019 18:48 Cash 198.18  
## 332 3 4.9350 2/17/2019 17:27 Credit card 98.70  
## 333 5 19.2550 2/3/2019 15:59 Cash 385.10  
## 334 2 2.3480 3/14/2019 11:21 Credit card 46.96  
## 335 5 3.6750 3/24/2019 13:48 Ewallet 73.50  
## 336 5 7.1125 3/21/2019 10:17 Credit card 142.25  
## 337 9 34.3800 3/19/2019 15:49 Ewallet 687.60  
## 338 6 17.3850 2/24/2019 13:02 Cash 347.70  
## 339 3 7.1475 3/28/2019 12:58 Credit card 142.95  
## 340 9 19.2690 2/5/2019 15:26 Credit card 385.38  
## 341 3 7.2135 2/10/2019 18:23 Credit card 144.27  
## 342 7 19.5895 3/5/2019 19:06 Ewallet 391.79  
## 343 7 26.9150 2/15/2019 20:21 Cash 538.30  
## 344 5 24.2575 1/30/2019 16:24 Ewallet 485.15  
## 345 3 6.6975 2/14/2019 15:04 Cash 133.95  
## 346 9 35.0685 2/27/2019 16:10 Ewallet 701.37  
## 347 1 3.5975 2/4/2019 12:14 Cash 71.95  
## 348 8 35.7000 1/20/2019 10:13 Cash 714.00  
## 349 7 9.1070 3/28/2019 17:38 Cash 182.14  
## 350 10 6.7500 2/27/2019 11:06 Credit card 135.00  
## 351 10 49.6500 2/15/2019 14:53 Credit card 993.00  
## 352 7 18.0915 1/26/2019 18:22 Cash 361.83  
## 353 7 19.1555 3/14/2019 19:02 Credit card 383.11  
## 354 9 12.1500 3/2/2019 14:16 Cash 243.00  
## 355 1 1.5120 3/4/2019 15:44 Cash 30.24  
## 356 4 17.8280 1/7/2019 12:20 Credit card 356.56  
## 357 10 18.7750 3/8/2019 20:01 Credit card 375.50  
## 358 10 47.7200 1/9/2019 13:45 Cash 954.40  
## 359 3 4.1250 3/1/2019 15:40 Ewallet 82.50  
## 360 1 3.7485 3/16/2019 16:58 Cash 74.97  
## 361 8 32.3840 2/17/2019 11:12 Credit card 647.68  
## 362 8 37.7880 2/27/2019 15:12 Cash 755.76  
## 363 2 9.9790 3/7/2019 20:37 Ewallet 199.58  
## 364 6 21.9660 1/21/2019 17:44 Cash 439.32  
## 365 4 8.2480 2/19/2019 16:23 Cash 164.96  
## 366 4 16.3360 1/6/2019 12:12 Cash 326.72  
## 367 9 23.0940 3/14/2019 19:33 Cash 461.88  
## 368 4 13.1880 3/24/2019 10:29 Cash 263.76  
## 369 10 7.1800 1/27/2019 14:28 Cash 143.60  
## 370 9 9.6750 3/6/2019 12:46 Credit card 193.50  
## 371 7 9.1910 2/2/2019 19:40 Cash 183.82  
## 372 2 6.0960 1/25/2019 19:39 Credit card 121.92  
## 373 6 21.0330 3/14/2019 17:54 Ewallet 420.66  
## 374 6 12.6240 1/29/2019 12:25 Cash 252.48  
## 375 5 16.7725 1/3/2019 16:47 Credit card 335.45  
## 376 5 24.1750 1/14/2019 12:52 Ewallet 483.50  
## 377 9 15.9210 1/5/2019 19:50 Credit card 318.42  
## 378 7 33.4215 2/22/2019 18:17 Ewallet 668.43  
## 379 4 19.3960 2/6/2019 17:20 Ewallet 387.92  
## 380 4 4.7300 1/30/2019 13:32 Credit card 94.60  
## 381 4 16.4660 1/11/2019 10:37 Credit card 329.32  
## 382 2 2.6610 3/19/2019 14:35 Cash 53.22  
## 383 5 24.9225 1/14/2019 12:09 Cash 498.45  
## 384 4 14.9780 3/1/2019 15:32 Ewallet 299.56  
## 385 5 10.2350 1/6/2019 13:58 Ewallet 204.70  
## 386 1 3.7910 1/31/2019 13:19 Cash 75.82  
## 387 6 14.0310 3/11/2019 13:37 Cash 280.62  
## 388 10 16.1600 2/20/2019 16:49 Credit card 323.20  
## 389 9 24.3315 1/27/2019 14:55 Ewallet 486.63  
## 390 7 6.3770 3/10/2019 14:04 Credit card 127.54  
## 391 3 12.0720 2/15/2019 12:31 Cash 241.44  
## 392 10 18.9750 1/26/2019 14:51 Cash 379.50  
## 393 1 3.8410 2/13/2019 18:27 Ewallet 76.82  
## 394 10 26.1300 3/9/2019 12:45 Credit card 522.60  
## 395 1 3.9870 3/6/2019 10:36 Ewallet 79.74  
## 396 5 19.3750 1/24/2019 20:36 Ewallet 387.50  
## 397 5 13.5675 3/13/2019 14:16 Ewallet 271.35  
## 398 9 6.1155 3/15/2019 10:26 Cash 122.31  
## 399 6 12.3180 3/5/2019 13:30 Credit card 246.36  
## 400 9 8.6580 3/4/2019 16:28 Cash 173.16  
## 401 6 11.8290 3/25/2019 20:18 Credit card 236.58  
## 402 4 9.2440 3/12/2019 20:04 Credit card 184.88  
## 403 1 0.6990 2/4/2019 13:38 Ewallet 13.98  
## 404 5 9.9375 2/22/2019 10:43 Ewallet 198.75  
## 405 7 34.2265 2/16/2019 17:30 Ewallet 684.53  
## 406 4 13.4520 1/19/2019 15:28 Credit card 269.04  
## 407 5 3.4475 1/11/2019 19:07 Credit card 68.95  
## 408 4 13.7420 1/4/2019 19:01 Cash 274.84  
## 409 4 11.3060 3/4/2019 19:48 Ewallet 226.12  
## 410 5 5.9550 1/28/2019 19:24 Ewallet 119.10  
## 411 10 17.1050 1/2/2019 13:00 Cash 342.10  
## 412 2 2.1870 1/25/2019 14:29 Ewallet 43.74  
## 413 5 5.2425 1/4/2019 13:21 Cash 104.85  
## 414 3 3.8760 3/10/2019 18:55 Ewallet 77.52  
## 415 8 20.3720 3/22/2019 19:36 Ewallet 407.44  
## 416 1 4.8055 1/25/2019 16:28 Ewallet 96.11  
## 417 4 9.0760 1/8/2019 13:48 Credit card 181.52  
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## 419 2 5.7220 1/12/2019 17:13 Ewallet 114.44  
## 420 7 8.8270 2/4/2019 10:23 Cash 176.54  
## 421 3 5.7900 3/28/2019 13:57 Ewallet 115.80  
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## 425 1 0.8140 3/9/2019 15:36 Cash 16.28  
## 426 9 18.2745 1/2/2019 13:40 Cash 365.49  
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## 428 3 3.1305 3/20/2019 13:53 Credit card 62.61  
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## 432 2 4.3270 3/8/2019 16:53 Ewallet 86.54  
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## 435 1 2.3720 2/22/2019 18:19 Credit card 47.44  
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## 438 6 10.1970 3/8/2019 15:37 Credit card 203.94  
## 439 4 3.4080 3/8/2019 20:15 Ewallet 68.16  
## 440 8 16.3440 2/7/2019 14:38 Credit card 326.88  
## 441 5 4.3600 1/15/2019 19:25 Cash 87.20  
## 442 8 35.3720 3/22/2019 19:35 Credit card 707.44  
## 443 9 40.1445 1/15/2019 15:42 Credit card 802.89  
## 444 1 0.6390 1/8/2019 14:11 Ewallet 12.78  
## 445 7 6.6850 1/15/2019 10:43 Cash 133.70  
## 446 1 0.9575 1/28/2019 17:58 Credit card 19.15  
## 447 10 13.8300 2/14/2019 11:26 Credit card 276.60  
## 448 3 6.8610 3/10/2019 17:38 Credit card 137.22  
## 449 1 1.3535 1/12/2019 20:07 Credit card 27.07  
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## 453 5 15.9025 3/16/2019 12:43 Ewallet 318.05  
## 454 1 1.2500 3/3/2019 15:09 Ewallet 25.00  
## 455 4 4.1540 1/31/2019 13:47 Cash 83.08  
## 456 5 7.3900 2/13/2019 16:59 Cash 147.80  
## 457 9 34.8300 2/15/2019 14:15 Credit card 696.60  
## 458 10 39.6950 2/7/2019 20:24 Cash 793.90  
## 459 10 23.2850 1/27/2019 13:58 Cash 465.70  
## 460 1 1.7945 2/23/2019 16:52 Credit card 35.89  
## 461 5 10.1300 2/3/2019 15:19 Cash 202.60  
## 462 10 36.5250 3/3/2019 12:25 Credit card 730.50  
## 463 4 14.7900 2/3/2019 10:02 Cash 295.80  
## 464 1 1.1310 3/17/2019 18:58 Cash 22.62  
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## 468 6 11.1060 3/22/2019 18:33 Cash 222.12  
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## 470 1 4.9420 2/15/2019 11:21 Cash 98.84  
## 471 6 25.1310 1/23/2019 12:10 Ewallet 502.62  
## 472 4 8.0100 1/25/2019 11:40 Cash 160.20  
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## 474 8 29.0280 3/30/2019 17:58 Cash 580.56  
## 475 5 16.1100 3/30/2019 17:04 Cash 322.20  
## 476 3 9.7770 2/25/2019 20:35 Credit card 195.54  
## 477 5 8.3150 3/18/2019 16:10 Credit card 166.30  
## 478 4 16.8140 3/7/2019 16:54 Ewallet 336.28  
## 479 10 17.1850 3/16/2019 10:11 Ewallet 343.70  
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## 481 8 26.3880 2/2/2019 20:29 Cash 527.76  
## 482 10 16.4000 2/15/2019 12:12 Cash 328.00  
## 483 5 9.2850 1/8/2019 13:05 Ewallet 185.70  
## 484 10 30.1900 2/12/2019 16:19 Cash 603.80  
## 485 10 18.4900 1/1/2019 19:48 Credit card 369.80  
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## 487 10 20.5450 2/28/2019 14:42 Cash 410.90  
## 488 4 7.4300 3/23/2019 18:59 Ewallet 148.60  
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## 491 2 3.4700 3/13/2019 19:48 Ewallet 69.40  
## 492 10 9.8300 3/15/2019 18:20 Credit card 196.60  
## 493 8 10.1280 3/5/2019 20:24 Ewallet 202.56  
## 494 10 6.0600 3/5/2019 13:44 Credit card 121.20  
## 495 2 9.9890 2/26/2019 11:48 Ewallet 199.78  
## 496 8 30.3680 3/20/2019 14:14 Cash 607.36  
## 497 2 6.3220 1/1/2019 15:51 Cash 126.44  
## 498 6 27.0720 1/27/2019 11:17 Cash 541.44  
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## 502 1 1.5950 1/5/2019 12:40 Ewallet 31.90  
## 503 2 6.9400 1/27/2019 19:48 Ewallet 138.80  
## 504 2 9.3310 3/25/2019 17:53 Cash 186.62  
## 505 1 4.4225 2/25/2019 16:36 Credit card 88.45  
## 506 8 9.6720 1/28/2019 20:54 Ewallet 193.44  
## 507 3 7.2750 1/8/2019 12:50 Cash 145.50  
## 508 6 25.2150 1/29/2019 10:48 Credit card 504.30  
## 509 5 15.3225 3/29/2019 14:28 Cash 306.45  
## 510 6 4.7850 2/9/2019 17:15 Credit card 95.70  
## 511 7 31.7590 1/16/2019 18:03 Credit card 635.18  
## 512 5 10.7275 1/5/2019 17:29 Ewallet 214.55  
## 513 7 18.9980 1/27/2019 18:05 Ewallet 379.96  
## 514 7 34.8425 3/14/2019 12:07 Cash 696.85  
## 515 7 20.4365 2/23/2019 19:49 Credit card 408.73  
## 516 1 2.5735 3/18/2019 15:52 Ewallet 51.47  
## 517 5 13.7150 3/29/2019 16:48 Ewallet 274.30  
## 518 5 9.8475 1/22/2019 20:46 Credit card 196.95  
## 519 2 3.4730 3/1/2019 18:14 Ewallet 69.46  
## 520 5 17.9800 1/17/2019 15:05 Credit card 359.60  
## 521 3 6.8565 3/26/2019 10:34 Credit card 137.13  
## 522 6 24.9510 3/20/2019 11:23 Cash 499.02  
## 523 6 11.2320 2/6/2019 13:55 Credit card 224.64  
## 524 2 6.2870 1/1/2019 11:43 Cash 125.74  
## 525 6 24.5130 1/27/2019 14:36 Credit card 490.26  
## 526 5 22.8525 2/25/2019 16:03 Ewallet 457.05  
## 527 4 7.8420 1/16/2019 20:03 Credit card 156.84  
## 528 2 5.9860 1/13/2019 14:55 Ewallet 119.72  
## 529 10 27.1800 2/7/2019 11:28 Credit card 543.60  
## 530 9 44.1405 2/17/2019 19:41 Cash 882.81  
## 531 6 7.6290 2/12/2019 19:01 Ewallet 152.58  
## 532 8 34.6720 1/24/2019 18:04 Credit card 693.44  
## 533 10 11.4750 2/6/2019 19:20 Ewallet 229.50  
## 534 9 7.3395 3/26/2019 10:31 Ewallet 146.79  
## 535 5 7.0800 3/11/2019 13:28 Ewallet 141.60  
## 536 7 5.8345 2/7/2019 11:36 Ewallet 116.69  
## 537 1 3.6980 1/5/2019 11:32 Credit card 73.96  
## 538 1 4.8970 3/7/2019 11:44 Ewallet 97.94  
## 539 4 14.6100 2/25/2019 17:16 Credit card 292.20  
## 540 6 26.2440 2/1/2019 18:43 Ewallet 524.88  
## 541 3 4.6020 1/22/2019 11:00 Ewallet 92.04  
## 542 1 3.7940 1/3/2019 10:30 Credit card 75.88  
## 543 4 4.0360 2/13/2019 12:14 Credit card 80.72  
## 544 6 5.6310 1/28/2019 16:43 Credit card 112.62  
## 545 1 3.5600 1/5/2019 20:40 Credit card 71.20  
## 546 4 7.7620 3/19/2019 13:40 Ewallet 155.24  
## 547 10 14.7100 1/12/2019 16:23 Ewallet 294.20  
## 548 9 27.4275 1/7/2019 12:08 Credit card 548.55  
## 549 5 12.8850 1/26/2019 17:45 Cash 257.70  
## 550 6 19.8180 1/23/2019 10:28 Cash 396.36  
## 551 3 8.5905 2/9/2019 20:31 Ewallet 171.81  
## 552 9 24.4395 2/22/2019 10:49 Cash 488.79  
## 553 9 26.2080 2/5/2019 12:34 Cash 524.16  
## 554 6 6.6630 3/7/2019 10:23 Credit card 133.26  
## 555 7 6.7620 3/25/2019 18:51 Cash 135.24  
## 556 3 5.6220 1/20/2019 13:45 Credit card 112.44  
## 557 2 7.2040 2/4/2019 19:38 Cash 144.08  
## 558 10 49.2600 1/30/2019 20:23 Ewallet 985.20  
## 559 6 12.4980 1/2/2019 15:24 Ewallet 249.96  
## 560 3 10.8630 3/29/2019 16:54 Ewallet 217.26  
## 561 9 9.7110 3/14/2019 12:32 Cash 194.22  
## 562 10 44.6000 2/11/2019 15:42 Credit card 892.00  
## 563 8 16.9680 1/30/2019 13:58 Ewallet 339.36  
## 564 6 22.3530 3/20/2019 15:08 Ewallet 447.06  
## 565 2 9.9250 3/20/2019 13:02 Cash 198.50  
## 566 10 40.6050 1/17/2019 13:01 Credit card 812.10  
## 567 10 24.6650 2/3/2019 16:40 Credit card 493.30  
## 568 9 29.5830 1/1/2019 13:55 Cash 591.66  
## 569 7 27.9510 1/10/2019 10:33 Credit card 559.02  
## 570 7 25.8930 3/2/2019 16:42 Ewallet 517.86  
## 571 5 20.5100 2/25/2019 17:16 Credit card 410.20  
## 572 10 13.3350 1/29/2019 11:48 Cash 266.70  
## 573 7 3.5455 3/10/2019 19:35 Ewallet 70.91  
## 574 2 7.2390 1/13/2019 19:55 Credit card 144.78  
## 575 5 21.4775 3/22/2019 14:33 Credit card 429.55  
## 576 7 28.4585 3/1/2019 19:49 Ewallet 569.17  
## 577 4 12.0600 2/20/2019 18:43 Cash 241.20  
## 578 4 6.3540 1/14/2019 14:43 Ewallet 127.08  
## 579 4 12.8540 3/26/2019 13:54 Cash 257.08  
## 580 2 6.9510 3/1/2019 12:15 Ewallet 139.02  
## 581 3 4.0830 1/7/2019 12:37 Cash 81.66  
## 582 4 15.5360 2/1/2019 19:54 Cash 310.72  
## 583 2 9.2980 2/13/2019 15:06 Credit card 185.96  
## 584 4 3.6160 1/14/2019 18:03 Credit card 72.32  
## 585 3 9.4590 1/19/2019 15:58 Ewallet 189.18  
## 586 4 10.3420 3/9/2019 13:53 Credit card 206.84  
## 587 3 7.8510 3/27/2019 14:03 Cash 157.02  
## 588 5 10.7650 2/4/2019 16:38 Ewallet 215.30  
## 589 10 29.8050 3/14/2019 11:07 Cash 596.10  
## 590 5 3.6550 3/4/2019 12:23 Cash 73.10  
## 591 6 13.9590 3/3/2019 10:54 Credit card 279.18  
## 592 7 8.4840 1/27/2019 17:38 Ewallet 169.68  
## 593 1 2.2790 2/7/2019 14:13 Cash 45.58  
## 594 3 11.2800 2/5/2019 11:51 Ewallet 225.60  
## 595 3 14.5200 3/15/2019 13:05 Cash 290.40  
## 596 3 2.2230 3/1/2019 11:30 Credit card 44.46  
## 597 3 7.8300 2/15/2019 13:30 Credit card 156.60  
## 598 9 20.9970 2/17/2019 19:11 Ewallet 419.94  
## 599 5 9.2125 1/26/2019 18:53 Cash 184.25  
## 600 2 7.0320 3/24/2019 14:22 Ewallet 140.64  
## 601 1 4.1540 1/23/2019 17:16 Ewallet 83.08  
## 602 1 3.2495 1/26/2019 10:06 Credit card 64.99  
## 603 10 38.7800 3/14/2019 20:35 Ewallet 775.60  
## 604 6 16.3530 3/17/2019 13:54 Ewallet 327.06  
## 605 7 18.1615 1/8/2019 20:08 Cash 363.23  
## 606 4 6.3500 2/8/2019 15:26 Cash 127.00  
## 607 7 18.7775 2/10/2019 12:56 Ewallet 375.55  
## 608 4 9.9580 3/28/2019 19:16 Credit card 199.16  
## 609 1 1.5305 1/23/2019 12:20 Ewallet 30.61  
## 610 2 5.7890 1/17/2019 10:37 Ewallet 115.78  
## 611 1 1.4480 2/7/2019 10:18 Credit card 28.96  
## 612 9 44.5365 3/9/2019 11:23 Cash 890.73  
## 613 3 13.9830 1/24/2019 11:45 Cash 279.66  
## 614 1 4.0465 1/19/2019 16:08 Credit card 80.93  
## 615 10 33.7250 2/3/2019 11:25 Ewallet 674.50  
## 616 9 17.4240 3/20/2019 12:24 Ewallet 348.48  
## 617 6 21.7800 1/13/2019 19:51 Cash 435.60  
## 618 5 21.9775 3/14/2019 18:10 Ewallet 439.55  
## 619 6 29.5590 1/23/2019 11:22 Credit card 591.18  
## 620 6 13.0380 2/7/2019 17:55 Ewallet 260.76  
## 621 3 10.7520 3/28/2019 15:30 Credit card 215.04  
## 622 1 4.5805 3/20/2019 19:44 Cash 91.61  
## 623 7 33.1065 1/17/2019 15:27 Credit card 662.13  
## 624 10 41.6250 1/12/2019 11:25 Credit card 832.50  
## 625 1 4.5675 2/16/2019 15:42 Cash 91.35  
## 626 2 7.8880 1/26/2019 16:04 Cash 157.76  
## 627 2 6.0870 3/9/2019 12:37 Ewallet 121.74  
## 628 10 41.2900 3/14/2019 14:41 Cash 825.80  
## 629 3 7.9950 1/25/2019 14:19 Ewallet 159.90  
## 630 1 0.6045 1/26/2019 18:19 Credit card 12.09  
## 631 10 32.0950 1/19/2019 14:08 Credit card 641.90  
## 632 3 11.7465 3/5/2019 16:38 Ewallet 234.93  
## 633 2 8.3770 1/15/2019 10:54 Credit card 167.54  
## 634 3 14.9550 3/18/2019 11:29 Ewallet 299.10  
## 635 3 11.9865 3/20/2019 19:28 Credit card 239.73  
## 636 10 33.2350 1/15/2019 15:01 Credit card 664.70  
## 637 7 10.1325 3/3/2019 20:31 Credit card 202.65  
## 638 1 2.3100 3/19/2019 12:16 Cash 46.20  
## 639 5 4.4075 3/8/2019 15:27 Cash 88.15  
## 640 3 7.8630 2/27/2019 17:36 Ewallet 157.26  
## 641 3 14.8185 2/23/2019 20:00 Ewallet 296.37  
## 642 8 35.4200 3/19/2019 15:29 Ewallet 708.40  
## 643 2 5.5670 3/27/2019 15:08 Ewallet 111.34  
## 644 8 29.0080 3/30/2019 19:26 Credit card 580.16  
## 645 5 3.0125 2/16/2019 15:53 Ewallet 60.25  
## 646 9 8.7120 1/18/2019 18:43 Ewallet 174.24  
## 647 6 21.0630 3/30/2019 14:58 Cash 421.26  
## 648 1 1.6815 3/20/2019 19:55 Cash 33.63  
## 649 2 1.5490 1/16/2019 15:10 Cash 30.98  
## 650 10 12.3700 2/24/2019 16:44 Cash 247.40  
## 651 5 18.9150 1/15/2019 18:22 Ewallet 378.30  
## 652 6 16.7430 1/22/2019 11:52 Cash 334.86  
## 653 10 36.3900 2/3/2019 17:24 Cash 727.80  
## 654 9 16.7940 3/6/2019 15:31 Ewallet 335.88  
## 655 4 12.0360 2/16/2019 18:04 Credit card 240.72  
## 656 3 2.3535 3/14/2019 14:13 Credit card 47.07  
## 657 1 4.9845 2/27/2019 10:23 Credit card 99.69  
## 658 3 13.2225 1/18/2019 10:11 Ewallet 264.45  
## 659 5 6.9825 1/29/2019 15:48 Cash 139.65  
## 660 1 2.7725 2/26/2019 17:46 Credit card 55.45  
## 661 3 6.4455 2/3/2019 11:46 Cash 128.91  
## 662 7 5.9990 1/16/2019 12:07 Credit card 119.98  
## 663 6 17.6250 3/24/2019 18:14 Credit card 352.50  
## 664 10 43.5500 2/12/2019 14:45 Credit card 871.00  
## 665 2 9.8800 2/21/2019 11:39 Cash 197.60  
## 666 4 9.7260 2/4/2019 15:44 Ewallet 194.52  
## 667 3 8.6610 2/20/2019 13:06 Ewallet 173.22  
## 668 4 3.5940 2/23/2019 20:43 Ewallet 71.88  
## 669 6 14.3130 2/16/2019 14:19 Ewallet 286.26  
## 670 2 4.0620 1/17/2019 10:01 Credit card 81.24  
## 671 10 28.0200 1/14/2019 19:30 Ewallet 560.40  
## 672 2 9.3400 3/30/2019 16:34 Cash 186.80  
## 673 3 11.0115 3/2/2019 13:10 Ewallet 220.23  
## 674 8 13.4560 2/15/2019 17:10 Credit card 269.12  
## 675 10 22.7400 3/1/2019 10:22 Credit card 454.80  
## 676 2 8.3770 2/24/2019 19:57 Cash 167.54  
## 677 7 22.4280 2/19/2019 19:29 Credit card 448.56  
## 678 4 14.6940 2/23/2019 18:30 Cash 293.88  
## 679 10 29.4750 2/7/2019 14:27 Ewallet 589.50  
## 680 6 14.5500 1/11/2019 13:57 Ewallet 291.00  
## 681 1 1.9740 2/12/2019 19:43 Cash 39.48  
## 682 1 1.7405 1/14/2019 10:11 Credit card 34.81  
## 683 6 14.7960 1/9/2019 13:46 Ewallet 295.92  
## 684 2 2.1480 2/27/2019 12:22 Ewallet 42.96  
## 685 6 6.9240 1/24/2019 19:20 Ewallet 138.48  
## 686 2 4.9100 1/8/2019 12:58 Credit card 98.20  
## 687 2 6.4830 1/8/2019 11:59 Credit card 129.66  
## 688 10 31.7800 1/16/2019 17:59 Cash 635.60  
## 689 2 7.2880 3/13/2019 12:51 Cash 145.76  
## 690 3 10.0650 2/15/2019 10:36 Cash 201.30  
## 691 9 31.5855 1/25/2019 13:38 Cash 631.71  
## 692 7 19.2640 3/12/2019 19:39 Ewallet 385.28  
## 693 10 24.3150 3/4/2019 12:44 Cash 486.30  
## 694 7 25.6830 2/10/2019 13:56 Cash 513.66  
## 695 9 23.6700 1/16/2019 14:42 Cash 473.40  
## 696 5 21.8425 1/29/2019 19:45 Cash 436.85  
## 697 4 5.4080 1/1/2019 20:26 Ewallet 108.16  
## 698 4 12.4380 1/6/2019 19:46 Ewallet 248.76  
## 699 9 31.3110 2/19/2019 19:38 Credit card 626.22  
## 700 10 48.7500 1/12/2019 16:18 Ewallet 975.00  
## 701 8 24.1640 2/7/2019 12:23 Ewallet 483.28  
## 702 3 4.8480 3/27/2019 19:11 Credit card 96.96  
## 703 10 9.8850 2/27/2019 18:57 Credit card 197.70  
## 704 9 36.2115 1/6/2019 11:18 Cash 724.23  
## 705 9 39.7755 3/2/2019 12:40 Cash 795.51  
## 706 7 25.1195 3/29/2019 14:06 Cash 502.39  
## 707 4 8.6000 1/31/2019 20:48 Ewallet 172.00  
## 708 1 3.4490 1/21/2019 20:13 Cash 68.98  
## 709 8 6.2480 1/20/2019 20:37 Ewallet 124.96  
## 710 3 3.8550 1/17/2019 17:59 Ewallet 77.10  
## 711 6 24.1860 2/28/2019 20:18 Cash 483.72  
## 712 4 15.1060 3/19/2019 15:52 Ewallet 302.12  
## 713 9 34.9335 2/19/2019 15:14 Ewallet 698.67  
## 714 9 6.2325 2/4/2019 12:50 Ewallet 124.65  
## 715 8 39.4800 1/31/2019 10:36 Ewallet 789.60  
## 716 5 8.9200 2/6/2019 18:33 Credit card 178.40  
## 717 7 25.0110 3/28/2019 16:06 Ewallet 500.22  
## 718 3 1.7910 1/19/2019 12:47 Credit card 35.82  
## 719 3 6.8070 2/17/2019 13:34 Credit card 136.14  
## 720 6 5.2440 1/18/2019 15:04 Credit card 104.88  
## 721 7 8.9460 2/2/2019 20:42 Cash 178.92  
## 722 9 40.7835 1/18/2019 15:28 Cash 815.67  
## 723 3 6.6180 3/18/2019 13:45 Credit card 132.36  
## 724 7 12.8695 1/11/2019 20:10 Cash 257.39  
## 725 4 4.6680 2/4/2019 18:53 Ewallet 93.36  
## 726 8 11.4000 2/6/2019 14:24 Cash 228.00  
## 727 3 8.3355 1/8/2019 11:42 Credit card 166.71  
## 728 10 34.8700 3/5/2019 17:49 Credit card 697.40  
## 729 4 19.4520 3/16/2019 15:33 Ewallet 389.04  
## 730 7 18.2630 3/9/2019 10:54 Cash 365.26  
## 731 4 4.4640 3/1/2019 16:23 Credit card 89.28  
## 732 3 8.4000 2/28/2019 19:33 Ewallet 168.00  
## 733 1 0.9850 2/8/2019 11:39 Ewallet 19.70  
## 734 7 26.5580 1/24/2019 10:38 Ewallet 531.16  
## 735 1 2.6860 3/1/2019 20:03 Ewallet 53.72  
## 736 10 40.9750 3/10/2019 12:39 Credit card 819.50  
## 737 7 28.4200 3/23/2019 15:59 Credit card 568.40  
## 738 10 29.3800 1/29/2019 14:26 Ewallet 587.60  
## 739 8 36.6240 1/12/2019 18:22 Ewallet 732.48  
## 740 9 42.2820 3/20/2019 11:32 Cash 845.64  
## 741 7 19.4635 3/23/2019 12:41 Cash 389.27  
## 742 1 4.2415 1/14/2019 15:20 Ewallet 84.83  
## 743 2 7.1630 2/12/2019 14:33 Ewallet 143.26  
## 744 2 3.7690 2/20/2019 15:29 Ewallet 75.38  
## 745 8 12.6680 1/2/2019 16:19 Credit card 253.36  
## 746 1 1.9210 2/2/2019 16:33 Cash 38.42  
## 747 10 32.6150 1/8/2019 19:07 Credit card 652.30  
## 748 5 2.6325 1/30/2019 14:43 Credit card 52.65  
## 749 9 5.5305 3/26/2019 19:28 Credit card 110.61  
## 750 7 28.4305 1/15/2019 20:44 Cash 568.61  
## 751 4 4.4640 3/14/2019 11:16 Ewallet 89.28  
## 752 5 6.8200 2/3/2019 10:31 Credit card 136.40  
## 753 10 8.7100 2/22/2019 12:30 Ewallet 174.20  
## 754 5 18.3200 1/24/2019 15:05 Ewallet 366.40  
## 755 3 12.7305 1/25/2019 18:30 Ewallet 254.61  
## 756 8 38.9160 3/9/2019 13:18 Credit card 778.32  
## 757 8 14.2960 2/17/2019 15:28 Ewallet 285.92  
## 758 6 28.9560 1/11/2019 11:52 Cash 579.12  
## 759 10 9.4250 2/27/2019 18:24 Ewallet 188.50  
## 760 4 11.0780 3/25/2019 15:19 Ewallet 221.56  
## 761 10 38.6000 2/11/2019 10:38 Credit card 772.00  
## 762 10 36.0650 1/31/2019 15:12 Credit card 721.30  
## 763 8 25.5520 1/20/2019 17:48 Ewallet 511.04  
## 764 5 2.6725 3/26/2019 11:07 Ewallet 53.45  
## 765 4 11.1000 1/20/2019 15:48 Credit card 222.00  
## 766 8 38.1840 3/5/2019 19:40 Ewallet 763.68  
## 767 3 11.4090 1/5/2019 20:30 Credit card 228.18  
## 768 6 4.1070 2/13/2019 13:59 Cash 82.14  
## 769 4 19.1280 3/16/2019 18:51 Cash 382.56  
## 770 6 3.4290 1/15/2019 17:24 Cash 68.58  
## 771 4 19.1080 2/26/2019 11:58 Ewallet 382.16  
## 772 7 30.0545 2/27/2019 19:01 Credit card 601.09  
## 773 7 23.7965 2/17/2019 16:50 Ewallet 475.93  
## 774 1 2.6210 2/6/2019 10:22 Credit card 52.42  
## 775 2 6.5650 1/17/2019 16:46 Cash 131.30  
## 776 5 7.2150 1/22/2019 18:08 Credit card 144.30  
## 777 7 22.8585 3/5/2019 18:02 Credit card 457.17  
## 778 1 4.6690 1/3/2019 13:07 Cash 93.38  
## 779 5 6.3125 3/20/2019 17:52 Cash 126.25  
## 780 9 39.5415 1/31/2019 20:32 Ewallet 790.83  
## 781 8 8.7200 2/19/2019 19:24 Cash 174.40  
## 782 4 18.9520 2/11/2019 16:06 Ewallet 379.04  
## 783 1 1.5310 2/5/2019 14:14 Credit card 30.62  
## 784 8 17.6040 3/3/2019 17:36 Cash 352.08  
## 785 5 2.5400 2/24/2019 13:08 Ewallet 50.80  
## 786 7 26.1030 2/4/2019 16:09 Credit card 522.06  
## 787 8 28.7560 2/19/2019 11:33 Ewallet 575.12  
## 788 5 2.7475 1/23/2019 10:18 Credit card 54.95  
## 789 3 9.0705 1/14/2019 10:55 Credit card 181.41  
## 790 7 20.6185 1/17/2019 15:15 Ewallet 412.37  
## 791 1 2.3205 3/3/2019 20:06 Credit card 46.41  
## 792 4 13.7100 2/15/2019 20:21 Credit card 274.20  
## 793 10 48.6850 1/15/2019 13:48 Credit card 973.70  
## 794 7 32.4100 2/27/2019 12:52 Credit card 648.20  
## 795 2 4.6610 2/26/2019 12:28 Credit card 93.22  
## 796 2 2.7180 3/15/2019 16:26 Ewallet 54.36  
## 797 1 3.0435 1/24/2019 13:24 Cash 60.87  
## 798 10 12.2450 2/22/2019 15:15 Cash 244.90  
## 799 1 4.6390 3/15/2019 10:50 Credit card 92.78  
## 800 5 21.6725 2/11/2019 18:38 Ewallet 433.45  
## 801 6 6.9030 1/12/2019 16:45 Ewallet 138.06  
## 802 8 12.0800 3/3/2019 19:30 Ewallet 241.60  
## 803 7 23.5865 3/23/2019 13:23 Ewallet 471.73  
## 804 9 22.0320 3/4/2019 11:27 Cash 440.64  
## 805 9 34.0155 2/23/2019 11:12 Cash 680.31  
## 806 4 15.4940 3/17/2019 16:36 Cash 309.88  
## 807 2 9.3180 1/16/2019 18:41 Credit card 186.36  
## 808 4 10.0460 1/8/2019 17:12 Cash 200.92  
## 809 1 0.8875 1/14/2019 10:38 Cash 17.75  
## 810 10 31.0900 1/31/2019 10:33 Ewallet 621.80  
## 811 8 4.3000 3/15/2019 14:38 Ewallet 86.00  
## 812 10 20.1300 2/24/2019 18:06 Credit card 402.60  
## 813 5 16.2425 2/8/2019 12:52 Credit card 324.85  
## 814 1 4.7575 3/22/2019 14:00 Cash 95.15  
## 815 8 19.4480 1/24/2019 10:57 Cash 388.96  
## 816 8 21.2840 3/14/2019 16:45 Ewallet 425.68  
## 817 7 15.9040 1/23/2019 11:15 Cash 318.08  
## 818 8 13.5520 1/19/2019 20:29 Ewallet 271.04  
## 819 4 19.2320 1/27/2019 20:03 Credit card 384.64  
## 820 5 11.7900 2/3/2019 14:35 Credit card 235.80  
## 821 4 10.5780 3/25/2019 16:32 Ewallet 211.56  
## 822 2 4.7680 2/24/2019 10:10 Credit card 95.36  
## 823 1 0.5085 2/7/2019 14:15 Cash 10.17  
## 824 3 10.3065 3/4/2019 10:05 Cash 206.13  
## 825 7 21.0280 2/14/2019 11:36 Credit card 420.56  
## 826 4 4.4020 1/29/2019 18:15 Credit card 88.04  
## 827 9 32.4495 1/28/2019 13:53 Credit card 648.99  
## 828 3 6.1920 3/26/2019 18:37 Credit card 123.84  
## 829 10 32.4750 3/24/2019 18:27 Cash 649.50  
## 830 10 37.1100 1/1/2019 14:42 Credit card 742.20  
## 831 8 4.2240 1/24/2019 17:43 Cash 84.48  
## 832 4 12.5140 2/25/2019 18:37 Cash 250.28  
## 833 8 4.7400 1/9/2019 16:34 Cash 94.80  
## 834 1 4.5650 2/14/2019 14:42 Ewallet 91.30  
## 835 7 14.2555 3/12/2019 11:01 Ewallet 285.11  
## 836 1 2.6190 3/26/2019 19:44 Cash 52.38  
## 837 5 9.6350 1/9/2019 13:34 Ewallet 192.70  
## 838 6 13.3890 1/2/2019 20:08 Credit card 267.78  
## 839 10 27.9350 1/15/2019 15:01 Cash 558.70  
## 840 6 8.7660 1/1/2019 11:40 Ewallet 175.32  
## 841 3 7.7910 2/15/2019 15:21 Cash 155.82  
## 842 1 3.0150 2/28/2019 17:38 Cash 60.30  
## 843 2 3.9470 3/2/2019 16:16 Credit card 78.94  
## 844 2 1.4870 2/13/2019 18:15 Credit card 29.74  
## 845 1 1.0660 1/26/2019 12:43 Cash 21.32  
## 846 3 14.0670 1/30/2019 11:32 Credit card 281.34  
## 847 1 3.6630 1/27/2019 18:08 Ewallet 73.26  
## 848 1 1.1190 1/30/2019 17:08 Credit card 22.38  
## 849 9 32.7960 1/8/2019 19:38 Cash 655.92  
## 850 6 29.7300 1/19/2019 13:11 Cash 594.60  
## 851 1 3.7050 1/25/2019 11:05 Cash 74.10  
## 852 2 9.8480 2/19/2019 10:12 Ewallet 196.96  
## 853 7 18.6165 1/14/2019 15:42 Ewallet 372.33  
## 854 10 26.3950 2/25/2019 11:58 Ewallet 527.90  
## 855 5 23.9875 1/23/2019 14:21 Ewallet 479.75  
## 856 9 16.4295 2/16/2019 10:52 Cash 328.59  
## 857 8 8.4480 1/1/2019 19:31 Cash 168.96  
## 858 4 5.6620 3/7/2019 18:35 Cash 113.24  
## 859 6 17.2770 2/15/2019 13:51 Cash 345.54  
## 860 9 21.4335 1/23/2019 12:35 Cash 428.67  
## 861 1 4.3135 2/20/2019 13:24 Ewallet 86.27  
## 862 2 1.2760 1/8/2019 18:06 Ewallet 25.52  
## 863 9 5.0760 3/17/2019 11:55 Credit card 101.52  
## 864 7 17.8745 1/12/2019 11:42 Cash 357.49  
## 865 3 11.9385 1/8/2019 14:30 Cash 238.77  
## 866 3 5.0715 1/26/2019 15:11 Ewallet 101.43  
## 867 8 36.2120 3/15/2019 14:48 Credit card 724.24  
## 868 2 6.2820 1/17/2019 12:36 Ewallet 125.64  
## 869 3 3.6465 1/8/2019 19:09 Credit card 72.93  
## 870 4 12.9180 1/6/2019 13:35 Ewallet 258.36  
## 871 7 8.6870 2/16/2019 10:33 Credit card 173.74  
## 872 1 2.8250 3/13/2019 15:45 Ewallet 56.50  
## 873 10 10.7150 1/28/2019 11:51 Cash 214.30  
## 874 6 26.7180 1/18/2019 17:26 Cash 534.36  
## 875 4 4.6580 3/19/2019 11:52 Credit card 93.16  
## 876 8 26.1040 3/15/2019 14:04 Ewallet 522.08  
## 877 1 2.6175 2/12/2019 17:49 Cash 52.35  
## 878 1 1.9875 2/25/2019 20:19 Cash 39.75  
## 879 8 36.0080 3/21/2019 16:08 Credit card 720.16  
## 880 8 4.8400 1/19/2019 10:17 Ewallet 96.80  
## 881 10 16.6050 1/8/2019 14:25 Ewallet 332.10  
## 882 8 4.0720 3/30/2019 12:51 Credit card 81.44  
## 883 10 15.9950 2/20/2019 15:18 Credit card 319.90  
## 884 6 10.3260 3/30/2019 12:45 Ewallet 206.52  
## 885 2 8.3340 3/19/2019 13:37 Cash 166.68  
## 886 7 15.9530 1/13/2019 10:03 Cash 319.06  
## 887 1 4.3950 2/5/2019 19:42 Ewallet 87.90  
## 888 10 36.7350 3/23/2019 13:14 Ewallet 734.70  
## 889 8 4.8760 3/13/2019 12:47 Ewallet 97.52  
## 890 10 38.4600 3/17/2019 19:53 Ewallet 769.20  
## 891 5 20.9150 2/21/2019 10:26 Cash 418.30  
## 892 8 23.1640 2/7/2019 15:06 Cash 463.28  
## 893 5 23.1225 3/2/2019 16:35 Credit card 462.45  
## 894 5 7.0950 3/6/2019 20:57 Cash 141.90  
## 895 6 15.1350 2/6/2019 15:16 Credit card 302.70  
## 896 8 39.6640 1/28/2019 17:47 Credit card 793.28  
## 897 7 21.2590 1/18/2019 16:23 Ewallet 425.18  
## 898 6 14.1810 2/5/2019 10:17 Cash 283.62  
## 899 7 29.9600 3/2/2019 13:50 Cash 599.20  
## 900 9 15.7680 2/9/2019 19:17 Ewallet 315.36  
## 901 9 20.1780 1/14/2019 14:00 Credit card 403.56  
## 902 4 9.1940 2/9/2019 12:02 Ewallet 183.88  
## 903 5 6.9325 3/26/2019 20:21 Credit card 138.65  
## 904 7 4.0355 1/28/2019 17:35 Cash 80.71  
## 905 2 5.8320 2/14/2019 12:42 Ewallet 116.64  
## 906 4 15.6760 3/24/2019 17:56 Cash 313.52  
## 907 10 42.3050 2/9/2019 18:58 Credit card 846.10  
## 908 5 20.7200 3/24/2019 14:08 Credit card 414.40  
## 909 2 7.9540 3/27/2019 16:30 Ewallet 159.08  
## 910 10 24.5050 1/27/2019 10:44 Credit card 490.10  
## 911 3 4.3725 3/27/2019 20:29 Credit card 87.45  
## 912 4 11.2260 1/19/2019 11:43 Ewallet 224.52  
## 913 8 37.2480 2/7/2019 10:09 Cash 744.96  
## 914 8 20.5360 1/31/2019 10:00 Ewallet 410.72  
## 915 3 14.9400 2/25/2019 18:45 Cash 298.80  
## 916 6 10.6470 2/2/2019 12:40 Cash 212.94  
## 917 1 2.1425 3/14/2019 15:36 Credit card 42.85  
## 918 4 18.9340 3/11/2019 12:04 Cash 378.68  
## 919 3 10.3455 2/22/2019 11:26 Ewallet 206.91  
## 920 3 3.9390 3/2/2019 12:36 Ewallet 78.78  
## 921 9 16.1055 3/10/2019 15:06 Credit card 322.11  
## 922 6 4.9110 2/8/2019 10:58 Cash 98.22  
## 923 2 1.2730 2/22/2019 12:10 Credit card 25.46  
## 924 7 29.0990 1/10/2019 10:31 Credit card 581.98  
## 925 6 10.5660 3/14/2019 13:49 Ewallet 211.32  
## 926 4 2.7560 1/10/2019 11:10 Ewallet 55.12  
## 927 1 4.4155 2/15/2019 17:38 Credit card 88.31  
## 928 9 17.8290 1/13/2019 17:54 Credit card 356.58  
## 929 9 39.7125 2/15/2019 20:51 Credit card 794.25  
## 930 2 2.5310 3/2/2019 19:26 Ewallet 50.62  
## 931 6 29.9760 3/24/2019 13:33 Ewallet 599.52  
## 932 2 8.3350 2/2/2019 14:05 Credit card 166.70  
## 933 10 37.2200 2/27/2019 11:40 Ewallet 744.40  
## 934 7 22.4280 1/20/2019 12:27 Ewallet 448.56  
## 935 6 18.9450 1/3/2019 20:24 Ewallet 378.90  
## 936 3 12.8580 1/24/2019 20:59 Ewallet 257.16  
## 937 7 27.6115 1/5/2019 19:48 Ewallet 552.23  
## 938 5 22.3700 3/30/2019 10:18 Cash 447.40  
## 939 3 13.8135 2/17/2019 16:27 Cash 276.27  
## 940 6 17.1870 3/21/2019 17:04 Ewallet 343.74  
## 941 4 13.3040 3/2/2019 18:14 Ewallet 266.08  
## 942 9 44.9190 3/27/2019 10:43 Cash 898.38  
## 943 10 22.8400 1/19/2019 19:30 Ewallet 456.80  
## 944 5 12.6975 2/19/2019 14:53 Credit card 253.95  
## 945 7 3.5280 3/28/2019 20:14 Cash 70.56  
## 946 7 32.8580 1/5/2019 11:51 Credit card 657.16  
## 947 2 8.4250 3/26/2019 14:13 Credit card 168.50  
## 948 1 2.6890 2/3/2019 20:13 Ewallet 53.78  
## 949 5 8.9525 2/6/2019 18:44 Ewallet 179.05  
## 950 8 10.5720 2/24/2019 14:26 Ewallet 211.44  
## 951 3 5.9865 2/21/2019 12:40 Ewallet 119.73  
## 952 3 3.2850 1/9/2019 18:43 Ewallet 65.70  
## 953 4 12.5700 2/25/2019 13:22 Ewallet 251.40  
## 954 4 4.2080 1/13/2019 13:58 Cash 84.16  
## 955 6 19.7730 2/9/2019 11:45 Cash 395.46  
## 956 7 14.8995 1/6/2019 11:51 Cash 297.99  
## 957 9 22.7205 1/10/2019 17:16 Cash 454.41  
## 958 6 13.8060 2/7/2019 15:55 Cash 276.12  
## 959 10 7.9000 1/9/2019 12:07 Cash 158.00  
## 960 9 44.3970 2/19/2019 15:07 Cash 887.94  
## 961 1 4.5990 3/18/2019 15:29 Cash 91.98  
## 962 2 2.0890 2/5/2019 18:45 Cash 41.78  
## 963 1 0.7750 3/19/2019 15:23 Credit card 15.50  
## 964 3 14.5230 3/30/2019 20:37 Cash 290.46  
## 965 2 3.3330 1/26/2019 14:41 Credit card 66.66  
## 966 2 3.8270 3/2/2019 18:18 Credit card 76.54  
## 967 9 14.9850 3/4/2019 15:27 Ewallet 299.70  
## 968 3 12.1515 1/13/2019 12:55 Credit card 243.03  
## 969 3 2.3700 3/25/2019 18:02 Cash 47.40  
## 970 5 8.6225 3/11/2019 19:44 Credit card 172.45  
## 971 10 42.3150 1/1/2019 11:36 Credit card 846.30  
## 972 7 12.9185 2/10/2019 13:51 Ewallet 258.37  
## 973 7 30.4780 1/26/2019 15:17 Cash 609.56  
## 974 3 12.0120 2/11/2019 15:29 Cash 240.24  
## 975 2 8.6130 2/7/2019 17:59 Cash 172.26  
## 976 2 4.9920 3/6/2019 11:55 Credit card 99.84  
## 977 4 14.9320 3/4/2019 10:39 Cash 298.64  
## 978 6 7.9800 2/26/2019 15:10 Ewallet 159.60  
## 979 1 1.2725 3/10/2019 18:10 Credit card 25.45  
## 980 1 3.3885 2/4/2019 20:43 Credit card 67.77  
## 981 4 11.9180 1/19/2019 12:46 Cash 238.36  
## 982 4 11.6300 1/23/2019 17:44 Cash 232.60  
## 983 9 43.8660 3/14/2019 14:19 Ewallet 877.32  
## 984 7 34.9860 1/23/2019 10:33 Cash 699.72  
## 985 7 33.7295 1/9/2019 11:40 Cash 674.59  
## 986 5 15.9275 2/7/2019 19:30 Ewallet 318.55  
## 987 2 1.4760 2/18/2019 14:42 Ewallet 29.52  
## 988 8 24.8000 1/3/2019 19:08 Credit card 496.00  
## 989 10 41.1700 3/29/2019 19:12 Ewallet 823.40  
## 990 8 30.1480 1/28/2019 15:46 Credit card 602.96  
## 991 5 14.1400 3/22/2019 19:06 Credit card 282.80  
## 992 10 38.3000 1/24/2019 18:10 Ewallet 766.00  
## 993 2 5.8030 3/10/2019 20:46 Ewallet 116.06  
## 994 10 8.7450 2/22/2019 18:35 Ewallet 174.90  
## 995 1 3.0475 2/18/2019 11:40 Ewallet 60.95  
## 996 1 2.0175 1/29/2019 13:46 Ewallet 40.35  
## 997 10 48.6900 3/2/2019 17:16 Ewallet 973.80  
## 998 1 1.5920 2/9/2019 13:22 Cash 31.84  
## 999 1 3.2910 2/22/2019 15:33 Cash 65.82  
## 1000 7 30.9190 2/18/2019 13:28 Cash 618.38  
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## 1 4.761905 26.1415 9.1 548.9715  
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## 5 4.761905 30.2085 5.3 634.3785  
## 6 4.761905 29.8865 4.1 627.6165  
## 7 4.761905 20.6520 5.8 433.6920  
## 8 4.761905 36.7800 8.0 772.3800  
## 9 4.761905 3.6260 7.2 76.1460  
## 10 4.761905 8.2260 5.9 172.7460  
## 11 4.761905 2.8960 4.5 60.8160  
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## 16 4.761905 28.1160 4.5 590.4360  
## 17 4.761905 24.1255 4.6 506.6355  
## 18 4.761905 21.7830 6.9 457.4430  
## 19 4.761905 8.2005 8.6 172.2105  
## 20 4.761905 4.0300 4.4 84.6300  
## 21 4.761905 21.5100 4.8 451.7100  
## 22 4.761905 13.1970 5.1 277.1370  
## 23 4.761905 3.3200 4.4 69.7200  
## 24 4.761905 8.6400 9.9 181.4400  
## 25 4.761905 13.2945 6.0 279.1845  
## 26 4.761905 21.0360 8.5 441.7560  
## 27 4.761905 1.6760 6.7 35.1960  
## 28 4.761905 8.7670 7.7 184.1070  
## 29 4.761905 22.0900 9.6 463.8900  
## 30 4.761905 11.2005 7.4 235.2105  
## 31 4.761905 23.5325 4.8 494.1825  
## 32 4.761905 35.1315 4.5 737.7615  
## 33 4.761905 33.5120 5.1 703.7520  
## 34 4.761905 9.6580 5.1 202.8180  
## 35 4.761905 19.8840 7.5 417.5640  
## 36 4.761905 3.4060 6.8 71.5260  
## 37 4.761905 15.6550 7.0 328.7550  
## 38 4.761905 27.3960 4.7 575.3160  
## 39 4.761905 21.9680 7.6 461.3280  
## 40 4.761905 12.0480 7.7 253.0080  
## 41 4.761905 4.3360 7.9 91.0560  
## 42 4.761905 5.6110 6.3 117.8310  
## 43 4.761905 20.7360 5.6 435.4560  
## 44 4.761905 39.4800 7.6 829.0800  
## 45 4.761905 1.5370 7.2 32.2770  
## 46 4.761905 18.7920 9.5 394.6320  
## 47 4.761905 25.5105 8.4 535.7205  
## 48 4.761905 9.0045 4.1 189.0945  
## 49 4.761905 5.6790 8.1 119.2590  
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## 53 4.761905 3.5740 6.5 75.0540  
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## 55 4.761905 1.6160 6.5 33.9360  
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## 84 4.761905 16.0720 8.3 337.5120  
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## 105 4.761905 10.6225 8.0 223.0725  
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## 107 4.761905 8.2140 7.9 172.4940  
## 108 4.761905 18.6390 7.4 391.4190  
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## 162 4.761905 3.1845 6.0 66.8745  
## 163 4.761905 16.0265 7.0 336.5565  
## 164 4.761905 7.6400 6.5 160.4400  
## 165 4.761905 19.9500 5.9 418.9500  
## 166 4.761905 17.0280 5.6 357.5880  
## 167 4.761905 47.7900 4.8 1003.5900  
## 168 4.761905 49.4900 8.7 1039.2900  
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## 170 4.761905 24.3320 8.5 510.9720  
## 171 4.761905 17.5025 5.5 367.5525  
## 172 4.761905 20.0125 9.4 420.2625  
## 173 4.761905 8.3400 6.3 175.1400  
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## 177 4.761905 8.8680 9.6 186.2280  
## 178 4.761905 7.8785 4.8 165.4485  
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## 183 4.761905 7.7500 8.0 162.7500  
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## 193 4.761905 39.5100 9.2 829.7100  
## 194 4.761905 5.1100 5.7 107.3100  
## 195 4.761905 8.1775 9.9 171.7275  
## 196 4.761905 3.7145 5.0 78.0045  
## 197 4.761905 4.3700 4.9 91.7700  
## 198 4.761905 1.2645 6.1 26.5545  
## 199 4.761905 8.3000 8.2 174.3000  
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## 207 4.761905 29.9925 9.7 629.8425  
## 208 4.761905 14.2650 7.8 299.5650  
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## 225 4.761905 4.3250 6.2 90.8250  
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## 970 4.761905 8.6225 9.0 181.0725  
## 971 4.761905 42.3150 9.0 888.6150  
## 972 4.761905 12.9185 6.7 271.2885  
## 973 4.761905 30.4780 5.5 640.0380  
## 974 4.761905 12.0120 5.4 252.2520  
## 975 4.761905 8.6130 8.2 180.8730  
## 976 4.761905 4.9920 7.0 104.8320  
## 977 4.761905 14.9320 8.5 313.5720  
## 978 4.761905 7.9800 4.9 167.5800  
## 979 4.761905 1.2725 5.1 26.7225  
## 980 4.761905 3.3885 6.5 71.1585  
## 981 4.761905 11.9180 9.8 250.2780  
## 982 4.761905 11.6300 8.4 244.2300  
## 983 4.761905 43.8660 7.4 921.1860  
## 984 4.761905 34.9860 6.1 734.7060  
## 985 4.761905 33.7295 6.0 708.3195  
## 986 4.761905 15.9275 8.5 334.4775  
## 987 4.761905 1.4760 4.3 30.9960  
## 988 4.761905 24.8000 6.2 520.8000  
## 989 4.761905 41.1700 4.3 864.5700  
## 990 4.761905 30.1480 8.4 633.1080  
## 991 4.761905 14.1400 4.5 296.9400  
## 992 4.761905 38.3000 6.0 804.3000  
## 993 4.761905 5.8030 8.8 121.8630  
## 994 4.761905 8.7450 6.6 183.6450  
## 995 4.761905 3.0475 5.9 63.9975  
## 996 4.761905 2.0175 6.2 42.3675  
## 997 4.761905 48.6900 4.4 1022.4900  
## 998 4.761905 1.5920 7.7 33.4320  
## 999 4.761905 3.2910 4.1 69.1110  
## 1000 4.761905 30.9190 6.6 649.2990

#viewing the dataset  
head(superm)

## Invoice.ID Branch Customer.type Gender Product.line Unit.price  
## 1 750-67-8428 A Member Female Health and beauty 74.69  
## 2 226-31-3081 C Normal Female Electronic accessories 15.28  
## 3 631-41-3108 A Normal Male Home and lifestyle 46.33  
## 4 123-19-1176 A Member Male Health and beauty 58.22  
## 5 373-73-7910 A Normal Male Sports and travel 86.31  
## 6 699-14-3026 C Normal Male Electronic accessories 85.39  
## Quantity Tax Date Time Payment cogs gross.margin.percentage  
## 1 7 26.1415 1/5/2019 13:08 Ewallet 522.83 4.761905  
## 2 5 3.8200 3/8/2019 10:29 Cash 76.40 4.761905  
## 3 7 16.2155 3/3/2019 13:23 Credit card 324.31 4.761905  
## 4 8 23.2880 1/27/2019 20:33 Ewallet 465.76 4.761905  
## 5 7 30.2085 2/8/2019 10:37 Ewallet 604.17 4.761905  
## 6 7 29.8865 3/25/2019 18:30 Ewallet 597.73 4.761905  
## gross.income Rating Total  
## 1 26.1415 9.1 548.9715  
## 2 3.8200 9.6 80.2200  
## 3 16.2155 7.4 340.5255  
## 4 23.2880 8.4 489.0480  
## 5 30.2085 5.3 634.3785  
## 6 29.8865 4.1 627.6165

#Viewing tail of the dataset  
tail(superm)

## Invoice.ID Branch Customer.type Gender Product.line Unit.price  
## 995 652-49-6720 C Member Female Electronic accessories 60.95  
## 996 233-67-5758 C Normal Male Health and beauty 40.35  
## 997 303-96-2227 B Normal Female Home and lifestyle 97.38  
## 998 727-02-1313 A Member Male Food and beverages 31.84  
## 999 347-56-2442 A Normal Male Home and lifestyle 65.82  
## 1000 849-09-3807 A Member Female Fashion accessories 88.34  
## Quantity Tax Date Time Payment cogs gross.margin.percentage  
## 995 1 3.0475 2/18/2019 11:40 Ewallet 60.95 4.761905  
## 996 1 2.0175 1/29/2019 13:46 Ewallet 40.35 4.761905  
## 997 10 48.6900 3/2/2019 17:16 Ewallet 973.80 4.761905  
## 998 1 1.5920 2/9/2019 13:22 Cash 31.84 4.761905  
## 999 1 3.2910 2/22/2019 15:33 Cash 65.82 4.761905  
## 1000 7 30.9190 2/18/2019 13:28 Cash 618.38 4.761905  
## gross.income Rating Total  
## 995 3.0475 5.9 63.9975  
## 996 2.0175 6.2 42.3675  
## 997 48.6900 4.4 1022.4900  
## 998 1.5920 7.7 33.4320  
## 999 3.2910 4.1 69.1110  
## 1000 30.9190 6.6 649.2990

#Checking the number of rows and columns  
dim(superm)

## [1] 1000 16

The dataset has 1000 entries and 16 columns

#Checking the names of the columns in the dataset  
superm$name

## NULL

#Checking the column datatypes  
sapply(superm, class)

## Invoice.ID Branch Customer.type   
## "character" "character" "character"   
## Gender Product.line Unit.price   
## "character" "character" "numeric"   
## Quantity Tax Date   
## "integer" "numeric" "character"   
## Time Payment cogs   
## "character" "character" "numeric"   
## gross.margin.percentage gross.income Rating   
## "numeric" "numeric" "numeric"   
## Total   
## "numeric"

#Summary of the dataset  
summary(superm)

## Invoice.ID Branch Customer.type Gender   
## Length:1000 Length:1000 Length:1000 Length:1000   
## Class :character Class :character Class :character Class :character   
## Mode :character Mode :character Mode :character Mode :character   
##   
##   
##   
## Product.line Unit.price Quantity Tax   
## Length:1000 Min. :10.08 Min. : 1.00 Min. : 0.5085   
## Class :character 1st Qu.:32.88 1st Qu.: 3.00 1st Qu.: 5.9249   
## Mode :character Median :55.23 Median : 5.00 Median :12.0880   
## Mean :55.67 Mean : 5.51 Mean :15.3794   
## 3rd Qu.:77.94 3rd Qu.: 8.00 3rd Qu.:22.4453   
## Max. :99.96 Max. :10.00 Max. :49.6500   
## Date Time Payment cogs   
## Length:1000 Length:1000 Length:1000 Min. : 10.17   
## Class :character Class :character Class :character 1st Qu.:118.50   
## Mode :character Mode :character Mode :character Median :241.76   
## Mean :307.59   
## 3rd Qu.:448.90   
## Max. :993.00   
## gross.margin.percentage gross.income Rating Total   
## Min. :4.762 Min. : 0.5085 Min. : 4.000 Min. : 10.68   
## 1st Qu.:4.762 1st Qu.: 5.9249 1st Qu.: 5.500 1st Qu.: 124.42   
## Median :4.762 Median :12.0880 Median : 7.000 Median : 253.85   
## Mean :4.762 Mean :15.3794 Mean : 6.973 Mean : 322.97   
## 3rd Qu.:4.762 3rd Qu.:22.4453 3rd Qu.: 8.500 3rd Qu.: 471.35   
## Max. :4.762 Max. :49.6500 Max. :10.000 Max. :1042.65

The summaries of the superm dataset outline the max, min

##DATA CLEANING

#Checking for missing values in the dataset  
is.na(superm)

## Invoice.ID Branch Customer.type Gender Product.line Unit.price Quantity  
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## [4,] FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
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#Checking for the total number of missing values in the columns as confirmation  
colSums(is.na(superm))

## Invoice.ID Branch Customer.type   
## 0 0 0   
## Gender Product.line Unit.price   
## 0 0 0   
## Quantity Tax Date   
## 0 0 0   
## Time Payment cogs   
## 0 0 0   
## gross.margin.percentage gross.income Rating   
## 0 0 0   
## Total   
## 0

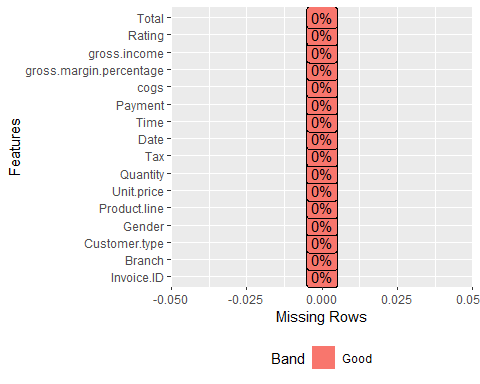
#Plotting missing values  
library(ggplot2)  
library(data.table)

##   
## Attaching package: 'data.table'

## The following objects are masked from 'package:lubridate':  
##   
## hour, isoweek, mday, minute, month, quarter, second, wday, week,  
## yday, year

## The following objects are masked from 'package:dplyr':  
##   
## between, first, last

library(DataExplorer)  
plot\_missing(superm)



The dataset contains no missing values

#Checking for duplicates in the dataset  
duplicated\_rows <- superm[duplicated(superm),]  
duplicated\_rows

## [1] Invoice.ID Branch Customer.type   
## [4] Gender Product.line Unit.price   
## [7] Quantity Tax Date   
## [10] Time Payment cogs   
## [13] gross.margin.percentage gross.income Rating   
## [16] Total   
## <0 rows> (or 0-length row.names)

The dataset contains no duplicates

###Tyding the Dataset

#Checking for anomalies in the dataset  
anom <- lapply(superm,unique)  
anom

## $Invoice.ID  
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## [6] "699-14-3026" "355-53-5943" "315-22-5665" "665-32-9167" "692-92-5582"  
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## [25] 88.63 52.59 33.52 87.67 88.36 24.89 94.13 78.07 83.78 96.58 99.42 68.12  
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## [937] 32.8580 8.4250 2.6890 8.9525 10.5720 5.9865 3.2850 4.2080 19.7730  
## [946] 14.8995 22.7205 13.8060 7.9000 44.3970 4.5990 2.0890 0.7750 14.5230  
## [955] 3.3330 3.8270 14.9850 12.1515 2.3700 8.6225 42.3150 12.9185 30.4780  
## [964] 12.0120 8.6130 4.9920 14.9320 7.9800 1.2725 3.3885 11.9180 11.6300  
## [973] 43.8660 34.9860 33.7295 15.9275 1.4760 24.8000 41.1700 30.1480 14.1400  
## [982] 38.3000 5.8030 8.7450 3.0475 2.0175 48.6900 1.5920 3.2910 30.9190  
##   
## $Rating  
## [1] 9.1 9.6 7.4 8.4 5.3 4.1 5.8 8.0 7.2 5.9 4.5 6.8 7.1 8.2 5.7  
## [16] 4.6 6.9 8.6 4.4 4.8 5.1 9.9 6.0 8.5 6.7 7.7 7.5 7.0 4.7 7.6  
## [31] 7.9 6.3 5.6 9.5 8.1 6.5 6.1 6.6 5.4 9.3 10.0 6.4 4.3 4.0 8.7  
## [46] 9.4 5.5 8.3 7.3 4.9 4.2 9.2 7.8 5.2 9.0 8.8 6.2 9.8 9.7 5.0  
## [61] 8.9  
##   
## $Total  
## [1] 548.9715 80.2200 340.5255 489.0480 634.3785 627.6165 433.6920  
## [8] 772.3800 76.1460 172.7460 60.8160 107.1420 246.4875 453.4950  
## [15] 749.4900 590.4360 506.6355 457.4430 172.2105 84.6300 451.7100  
## [22] 277.1370 69.7200 181.4400 279.1845 441.7560 35.1960 184.1070  
## [29] 463.8900 235.2105 494.1825 737.7615 703.7520 202.8180 417.5640  
## [36] 71.5260 328.7550 575.3160 461.3280 253.0080 91.0560 117.8310  
## [43] 435.4560 829.0800 32.2770 394.6320 535.7205 189.0945 119.2590  
## [50] 867.6150 671.7900 234.0975 75.0540 16.2015 33.9360 722.2320  
## [57] 93.1140 752.6400 759.6750 192.8430 77.9310 351.0990 520.4115  
## [64] 166.0050 318.1080 166.6350 70.2870 614.9430 827.0850 19.2465  
## [71] 939.5400 652.2600 152.8380 478.2330 705.6315 437.3250 463.4280  
## [78] 822.2550 106.9950 624.8970 304.5420 161.7000 337.5120 256.7775  
## [85] 610.4910 401.7300 362.9430 44.5935 485.0370 198.9960 471.0300  
## [92] 161.5530 608.2020 94.2375 102.0180 922.6350 78.4350 166.1625  
## [99] 521.0100 51.1455 742.2975 218.0115 367.0380 223.0725 931.0350  
## [106] 172.4940 391.4190 321.1110 860.6850 34.6290 309.3615 535.3740  
## [113] 548.7615 763.4655 85.1130 115.1850 53.9280 115.0800 112.2240  
## [120] 836.3040 419.8320 944.6220 536.8440 474.3480 688.6215 169.3125  
## [127] 299.8485 575.7360 853.1460 291.2070 580.4190 146.3280 550.9350  
## [134] 512.1900 284.1930 138.1275 216.8460 545.0550 609.0000 942.9000  
## [141] 950.2500 720.3000 31.9305 491.0850 291.4380 316.4700 277.7880  
## [148] 603.6240 272.6640 384.4680 254.0160 786.6180 103.8240 680.1480  
## [155] 484.5225 75.7785 263.9700 918.7290 588.3570 362.7120 66.8745  
## [162] 336.5565 160.4400 418.9500 357.5880 1003.5900 1039.2900 323.0640  
## [169] 510.9720 367.5525 420.2625 175.1400 333.2070 166.2360 319.7880  
## [176] 186.2280 165.4485 465.4440 273.4200 472.3110 323.1480 162.7500  
## [183] 288.2040 90.6990 56.9520 793.7160 195.1740 77.7735 293.2020  
## [190] 242.6760 154.3920 829.7100 107.3100 171.7275 78.0045 91.7700  
## [197] 26.5545 174.3000 374.7975 120.6450 241.4580 451.3635 271.9500  
## [204] 93.2925 217.6335 629.8425 299.5650 95.6655 942.4485 247.8735  
## [211] 881.3070 484.8900 146.2230 19.1940 130.0425 298.1160 796.9080  
## [218] 180.6210 285.7050 456.2880 62.0025 13.1670 90.8250 183.0360  
## [225] 655.5465 155.6520 571.4100 532.7280 170.8770 33.3585 794.6505  
## [232] 310.0440 545.3700 195.5940 91.4025 232.1550 69.4050 94.1745  
## [239] 235.6830 125.5170 195.7200 263.1300 788.5080 399.7560 256.4100  
## [246] 94.1850 326.4240 536.9910 439.8975 369.4950 30.2190 99.7500  
## [253] 494.7600 137.0040 69.6675 163.2330 135.4500 276.9480 709.3170  
## [260] 69.0900 160.8600 233.5200 57.1725 723.2400 148.9740 783.3000  
## [267] 297.1080 373.1700 354.0075 44.3520 203.5530 25.2630 628.1730  
## [274] 352.5795 229.1100 400.7640 745.3950 462.2100 587.6640 38.8500  
## [281] 16.1070 628.9290 200.2140 350.0700 78.6030 224.4375 356.5485  
## [288] 697.3680 423.1500 204.6975 65.6040 76.3560 190.1550 272.5800  
## [295] 121.1280 493.7940 252.0420 93.0405 209.6220 40.9605 51.0405  
## [302] 214.9980 125.6640 530.6700 295.6905 745.8360 83.4120 172.0110  
## [309] 503.5590 145.5930 74.7075 146.9475 820.3650 208.6770 66.4020  
## [316] 392.6475 218.0745 185.0940 216.6885 41.3910 96.1380 324.2925  
## [323] 135.5760 410.5080 523.8450 395.8920 214.7460 152.7120 208.0890  
## [330] 103.6350 404.3550 49.3080 77.1750 149.3625 721.9800 365.0850  
## [337] 150.0975 404.6490 151.4835 411.3795 565.2150 509.4075 140.6475  
## [344] 736.4385 75.5475 749.7000 191.2470 141.7500 1042.6500 379.9215  
## [351] 402.2655 255.1500 31.7520 374.3880 394.2750 1002.1200 86.6250  
## [358] 78.7185 680.0640 793.5480 209.5590 461.2860 173.2080 343.0560  
## [365] 484.9740 150.7800 203.1750 193.0110 128.0160 441.6930 265.1040  
## [372] 352.2225 507.6750 334.3410 701.8515 407.3160 99.3300 345.7860  
## [379] 55.8810 523.3725 314.5380 214.9350 79.6110 294.6510 339.3600  
## [386] 510.9615 133.9170 253.5120 398.4750 80.6610 548.7300 83.7270  
## [393] 406.8750 284.9175 128.4255 258.6780 181.8180 248.4090 194.1240  
## [400] 14.6790 208.6875 718.7565 282.4920 72.3975 288.5820 237.4260  
## [407] 125.0550 359.2050 45.9270 110.0925 81.3960 427.8120 100.9155  
## [414] 190.5960 85.5855 120.1620 185.3670 121.5900 264.7575 1020.7050  
## [421] 213.5280 17.0940 383.7645 390.7995 65.7405 353.1675 951.8250  
## [428] 145.0680 90.8670 147.7980 702.2190 49.8120 937.8180 348.3060  
## [435] 214.1370 71.5680 343.2240 91.5600 742.8120 843.0345 13.4190  
## [442] 140.3850 20.1075 290.4300 144.0810 28.4235 41.0760 470.6730  
## [449] 138.6630 333.9525 26.2500 87.2340 155.1900 731.4300 833.5950  
## [456] 488.9850 37.6845 212.7300 767.0250 310.5900 23.7510 269.5350  
## [463] 572.7750 273.0525 233.2260 22.6590 103.7820 527.7510 168.2100  
## [470] 452.8650 609.5880 338.3100 205.3170 174.6150 353.0940 360.8850  
## [477] 40.5300 554.1480 344.4000 194.9850 633.9900 388.2900 207.8580  
## [484] 431.4450 156.0300 24.1080 734.0760 72.8700 206.4300 212.6880  
## [491] 127.2600 209.7690 637.7280 132.7620 568.5120 103.0365 432.7680  
## [498] 77.6685 33.4950 145.7400 195.9510 92.8725 203.1120 152.7750  
## [505] 529.5150 321.7725 100.4850 666.9390 225.2775 398.9580 731.6925  
## [512] 429.1665 54.0435 288.0150 206.7975 72.9330 377.5800 143.9865  
## [519] 523.9710 235.8720 132.0270 514.7730 479.9025 164.6820 125.7060  
## [526] 570.7800 926.9505 160.2090 728.1120 240.9750 154.1295 148.6800  
## [533] 122.5245 77.6580 102.8370 306.8100 551.1240 96.6420 79.6740  
## [540] 84.7560 118.2510 74.7600 163.0020 308.9100 575.9775 270.5850  
## [547] 416.1780 180.4005 513.2295 550.3680 139.9230 142.0020 118.0620  
## [554] 151.2840 1034.4600 262.4580 228.1230 203.9310 936.6000 356.3280  
## [561] 469.4130 208.4250 852.7050 517.9650 621.2430 586.9710 543.7530  
## [568] 430.7100 280.0350 74.4555 152.0190 451.0275 597.6285 253.2600  
## [575] 133.4340 269.9340 145.9710 85.7430 326.2560 195.2580 75.9360  
## [582] 198.6390 217.1820 164.8710 226.0650 625.9050 76.7550 293.1390  
## [589] 178.1640 47.8590 236.8800 304.9200 46.6830 164.4300 440.9370  
## [596] 193.4625 147.6720 68.2395 814.3800 343.4130 381.3915 133.3500  
## [603] 394.3275 209.1180 32.1405 121.5690 30.4080 935.2665 293.6430  
## [610] 84.9765 708.2250 365.9040 457.3800 461.5275 620.7390 273.7980  
## [617] 225.7920 96.1905 695.2365 874.1250 95.9175 165.6480 127.8270  
## [624] 867.0900 167.8950 12.6945 673.9950 246.6765 175.9170 314.0550  
## [631] 251.7165 697.9350 212.7825 48.5100 92.5575 165.1230 311.1885  
## [638] 743.8200 116.9070 609.1680 63.2625 182.9520 442.3230 35.3115  
## [645] 32.5290 259.7700 397.2150 351.6030 764.1900 352.6740 252.7560  
## [652] 49.4235 104.6745 277.6725 146.6325 58.2225 135.3555 125.9790  
## [659] 370.1250 914.5500 207.4800 204.2460 181.8810 75.4740 300.5730  
## [666] 85.3020 588.4200 196.1400 231.2415 282.5760 477.5400 470.9880  
## [673] 308.5740 618.9750 305.5500 41.4540 36.5505 310.7160 45.1080  
## [680] 145.4040 103.1100 136.1430 667.3800 153.0480 211.3650 663.2955  
## [687] 404.5440 510.6150 539.3430 497.0700 458.6925 113.5680 261.1980  
## [694] 657.5310 1023.7500 507.4440 101.8080 207.5850 760.4415 835.2855  
## [701] 527.5095 180.6000 72.4290 131.2080 80.9550 507.9060 317.2260  
## [708] 733.6035 130.8825 187.3200 525.2310 37.6110 142.9470 110.1240  
## [715] 187.8660 856.4535 138.9780 270.2595 98.0280 239.4000 175.0455  
## [722] 732.2700 408.4920 383.5230 93.7440 176.4000 20.6850 557.7180  
## [729] 56.4060 860.4750 596.8200 616.9800 769.1040 887.9220 408.7335  
## [736] 89.0715 150.4230 79.1490 266.0280 40.3410 684.9150 55.2825  
## [743] 116.1405 597.0405 143.2200 182.9100 384.7200 267.3405 817.2360  
## [750] 300.2160 608.0760 197.9250 232.6380 810.6000 757.3650 536.5920  
## [757] 56.1225 233.1000 801.8640 239.5890 86.2470 401.6880 72.0090  
## [764] 401.2680 631.1445 499.7265 55.0410 137.8650 151.5150 480.0285  
## [771] 98.0490 132.5625 830.3715 183.1200 397.9920 32.1510 369.6840  
## [778] 53.3400 548.1630 603.8760 57.6975 190.4805 432.9885 48.7305  
## [785] 287.9100 1022.3850 680.6100 97.8810 57.0780 63.9135 257.1450  
## [792] 97.4190 455.1225 144.9630 253.6800 495.3165 462.6720 714.3255  
## [799] 325.3740 195.6780 210.9660 18.6375 652.8900 90.3000 422.7300  
## [806] 341.0925 99.9075 408.4080 446.9640 333.9840 284.5920 403.8720  
## [813] 247.5900 222.1380 100.1280 10.6785 216.4365 441.5880 92.4420  
## [820] 681.4395 130.0320 681.9750 779.3100 88.7040 262.7940 99.5400  
## [827] 95.8650 299.3655 54.9990 202.3350 281.1690 586.6350 184.0860  
## [834] 163.6110 63.3150 82.8870 31.2270 22.3860 295.4070 76.9230  
## [841] 23.4990 688.7160 624.3300 77.8050 206.8080 390.9465 554.2950  
## [848] 503.7375 345.0195 177.4080 118.9020 362.8170 450.1035 90.5835  
## [855] 26.7960 106.5960 375.3645 250.7085 106.5015 760.4520 131.9220  
## [862] 76.5765 271.2780 182.4270 59.3250 225.0150 561.0780 97.8180  
## [869] 548.1840 54.9675 41.7375 756.1680 101.6400 348.7050 85.5120  
## [876] 335.8950 175.0140 335.0130 92.2950 771.4350 102.3960 807.6600  
## [883] 439.2150 486.4440 485.5725 148.9950 317.8350 832.9440 446.4390  
## [890] 297.8010 629.1600 331.1280 423.7380 193.0740 145.5825 84.7455  
## [897] 122.4720 329.1960 888.4050 435.1200 167.0340 514.6050 91.8225  
## [904] 235.7460 782.2080 431.2560 313.7400 223.5870 44.9925 397.6140  
## [911] 217.2555 82.7190 338.2155 103.1310 26.7330 611.0790 221.8860  
## [918] 57.8760 92.7255 374.4090 833.9625 53.1510 629.4960 175.0350  
## [925] 781.6200 397.8450 270.0180 579.8415 469.7700 290.0835 360.9270  
## [932] 279.3840 943.2990 479.6400 266.6475 74.0880 690.0180 176.9250  
## [939] 56.4690 188.0025 222.0120 125.7165 68.9850 88.3680 415.2330  
## [946] 312.8895 477.1305 289.9260 165.9000 932.3370 96.5790 43.8690  
## [953] 16.2750 304.9830 69.9930 80.3670 314.6850 255.1815 49.7700  
## [960] 181.0725 888.6150 271.2885 640.0380 252.2520 180.8730 104.8320  
## [967] 313.5720 167.5800 26.7225 71.1585 250.2780 244.2300 921.1860  
## [974] 734.7060 708.3195 334.4775 30.9960 520.8000 864.5700 633.1080  
## [981] 296.9400 804.3000 121.8630 183.6450 63.9975 42.3675 1022.4900  
## [988] 33.4320 69.1110 649.2990

#number of unique elements in the Superm dataset  
lapply(superm, function(x) length(table(x)))

## $Invoice.ID  
## [1] 1000  
##   
## $Branch  
## [1] 3  
##   
## $Customer.type  
## [1] 2  
##   
## $Gender  
## [1] 2  
##   
## $Product.line  
## [1] 6  
##   
## $Unit.price  
## [1] 943  
##   
## $Quantity  
## [1] 10  
##   
## $Tax  
## [1] 990  
##   
## $Date  
## [1] 89  
##   
## $Time  
## [1] 506  
##   
## $Payment  
## [1] 3  
##   
## $cogs  
## [1] 990  
##   
## $gross.margin.percentage  
## [1] 1  
##   
## $gross.income  
## [1] 990  
##   
## $Rating  
## [1] 61  
##   
## $Total  
## [1] 990

The number of unique values is listed above

#Converting the date column to numeric datatype  
superm$Date <-as.Date(as.character(superm$Date))

###PCA

# Selecting the numerical data (excluding the categorical variables vs and am)  
df <- superm[c(6:8,12:16)]  
head(df)

## Unit.price Quantity Tax cogs gross.margin.percentage gross.income  
## 1 74.69 7 26.1415 522.83 4.761905 26.1415  
## 2 15.28 5 3.8200 76.40 4.761905 3.8200  
## 3 46.33 7 16.2155 324.31 4.761905 16.2155  
## 4 58.22 8 23.2880 465.76 4.761905 23.2880  
## 5 86.31 7 30.2085 604.17 4.761905 30.2085  
## 6 85.39 7 29.8865 597.73 4.761905 29.8865  
## Rating Total  
## 1 9.1 548.9715  
## 2 9.6 80.2200  
## 3 7.4 340.5255  
## 4 8.4 489.0480  
## 5 5.3 634.3785  
## 6 4.1 627.6165

# Ensuring our variances is not 0  
vdf <- df[ , which(apply(df, 2, var) != 0)]  
head(vdf)

## Unit.price Quantity Tax cogs gross.income Rating Total  
## 1 74.69 7 26.1415 522.83 26.1415 9.1 548.9715  
## 2 15.28 5 3.8200 76.40 3.8200 9.6 80.2200  
## 3 46.33 7 16.2155 324.31 16.2155 7.4 340.5255  
## 4 58.22 8 23.2880 465.76 23.2880 8.4 489.0480  
## 5 86.31 7 30.2085 604.17 30.2085 5.3 634.3785  
## 6 85.39 7 29.8865 597.73 29.8865 4.1 627.6165

The changes have been made

vdf.pca <- prcomp(vdf, center = TRUE, scale. = TRUE)  
summary(vdf.pca)

## Importance of components:  
## PC1 PC2 PC3 PC4 PC5 PC6  
## Standard deviation 2.2185 1.0002 0.9939 0.30001 2.981e-16 1.493e-16  
## Proportion of Variance 0.7031 0.1429 0.1411 0.01286 0.000e+00 0.000e+00  
## Cumulative Proportion 0.7031 0.8460 0.9871 1.00000 1.000e+00 1.000e+00  
## PC7  
## Standard deviation 9.831e-17  
## Proportion of Variance 0.000e+00  
## Cumulative Proportion 1.000e+00

A total of 7 PCa models have been recorded

#Calling the structure of the pca  
str(vdf.pca)

## List of 5  
## $ sdev : num [1:7] 2.22 1.00 9.94e-01 3.00e-01 2.98e-16 ...  
## $ rotation: num [1:7, 1:7] -0.292 -0.325 -0.45 -0.45 -0.45 ...  
## ..- attr(\*, "dimnames")=List of 2  
## .. ..$ : chr [1:7] "Unit.price" "Quantity" "Tax" "cogs" ...  
## .. ..$ : chr [1:7] "PC1" "PC2" "PC3" "PC4" ...  
## $ center : Named num [1:7] 55.67 5.51 15.38 307.59 15.38 ...  
## ..- attr(\*, "names")= chr [1:7] "Unit.price" "Quantity" "Tax" "cogs" ...  
## $ scale : Named num [1:7] 26.49 2.92 11.71 234.18 11.71 ...  
## ..- attr(\*, "names")= chr [1:7] "Unit.price" "Quantity" "Tax" "cogs" ...  
## $ x : num [1:1000, 1:7] -2.005 2.306 -0.186 -1.504 -2.8 ...  
## ..- attr(\*, "dimnames")=List of 2  
## .. ..$ : NULL  
## .. ..$ : chr [1:7] "PC1" "PC2" "PC3" "PC4" ...  
## - attr(\*, "class")= chr "prcomp"

#Installing the visualization libraries  
library(devtools)

## Loading required package: usethis

install\_github("vqv/ggbiplot")

## Skipping install of 'ggbiplot' from a github remote, the SHA1 (7325e880) has not changed since last install.  
## Use `force = TRUE` to force installation

#Plotting the pca models  
library(ggbiplot)

## Loading required package: plyr

## ------------------------------------------------------------------------------

## You have loaded plyr after dplyr - this is likely to cause problems.  
## If you need functions from both plyr and dplyr, please load plyr first, then dplyr:  
## library(plyr); library(dplyr)

## ------------------------------------------------------------------------------

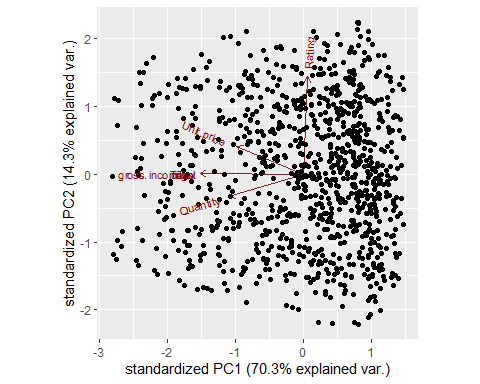
##   
## Attaching package: 'plyr'

## The following objects are masked from 'package:dplyr':  
##   
## arrange, count, desc, failwith, id, mutate, rename, summarise,  
## summarize

## Loading required package: scales

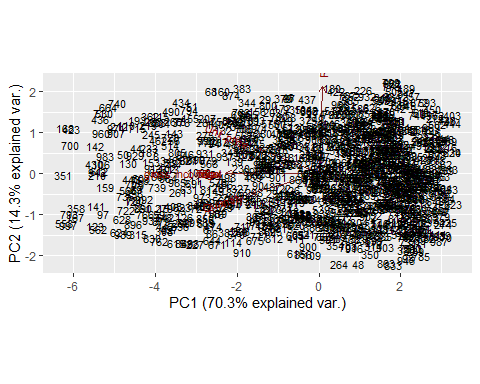
## Loading required package: grid

ggbiplot(vdf.pca)



The reduction technique has yielded datapoints that are of high rating and high quality.

#Adding more details to the plot  
ggbiplot(vdf.pca, labels=rownames(vdf), obs.scale = 1, var.scale = 1)

 The reduction technique has yielded datapoints that are of high rating and high quality.

#FEATURE SELECTION

## Installing and loading our caret package  
  
suppressWarnings(  
 suppressMessages(if  
 (!require(caret, quietly=TRUE))  
 install.packages("caret")))  
library(caret)

# Installing and loading the corrplot package for plotting  
# ---  
#   
suppressWarnings(  
 suppressMessages(if  
 (!require(corrplot, quietly=TRUE))  
 install.packages("corrplot")))  
library(corrplot)

#Calculating the corralation matrix  
correlationMatrix <- cor(df)

## Warning in cor(df): the standard deviation is zero

# Find attributes that are highly correlated  
highlyCorrelated <- findCorrelation(correlationMatrix, cutoff=0.75)

# Highly correlated attributes  
#   
highlyCorrelated

## [1] 4 8 3

names(df[,highlyCorrelated])

## [1] "cogs" "Total" "Tax"

The above represent the highly correlated values

# Removing Redundant Features   
df2<-df[-highlyCorrelated]

###Association Rules

# Loading the arules library  
  
library(arules)

## Loading required package: Matrix

##   
## Attaching package: 'Matrix'

## The following objects are masked from 'package:tidyr':  
##   
## expand, pack, unpack

##   
## Attaching package: 'arules'

## The following object is masked from 'package:dplyr':  
##   
## recode

## The following objects are masked from 'package:base':  
##   
## abbreviate, write

#Installing the datasets

path <-"http://bit.ly/SupermarketDatasetII"  
  
smak<-read.transactions(path, sep = ",")

## Warning in asMethod(object): removing duplicated items in transactions

smak

## transactions in sparse format with  
## 7501 transactions (rows) and  
## 119 items (columns)

7501 transactions were captured. The dataset had a further 119 variables. Duplicates were also eliminated

#Viewing the dataset  
head(smak)

## transactions in sparse format with  
## 6 transactions (rows) and  
## 119 items (columns)

#Viewing the tail of the dataset  
tail(smak)

## transactions in sparse format with  
## 6 transactions (rows) and  
## 119 items (columns)

#Summary of the dataset  
summary(smak)

## transactions as itemMatrix in sparse format with  
## 7501 rows (elements/itemsets/transactions) and  
## 119 columns (items) and a density of 0.03288973   
##   
## most frequent items:  
## mineral water eggs spaghetti french fries chocolate   
## 1788 1348 1306 1282 1229   
## (Other)   
## 22405   
##   
## element (itemset/transaction) length distribution:  
## sizes  
## 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16   
## 1754 1358 1044 816 667 493 391 324 259 139 102 67 40 22 17 4   
## 18 19 20   
## 1 2 1   
##   
## Min. 1st Qu. Median Mean 3rd Qu. Max.   
## 1.000 2.000 3.000 3.914 5.000 20.000   
##   
## includes extended item information - examples:  
## labels  
## 1 almonds  
## 2 antioxydant juice  
## 3 asparagus

The summaries of the measurements of dispersion and central tendency have been captured.

#Step 2: Verrifying the transaction class  
 class(smak)

## [1] "transactions"  
## attr(,"package")  
## [1] "arules"

The arule package is now in use

#Step 3: preview the first 6 transactions  
inspect(smak[1:6])

## items   
## [1] {almonds,   
## antioxydant juice,   
## avocado,   
## cottage cheese,   
## energy drink,   
## frozen smoothie,   
## green grapes,   
## green tea,   
## honey,   
## low fat yogurt,   
## mineral water,   
## olive oil,   
## salad,   
## salmon,   
## shrimp,   
## spinach,   
## tomato juice,   
## vegetables mix,   
## whole weat flour,   
## yams}   
## [2] {burgers,   
## eggs,   
## meatballs}   
## [3] {chutney}   
## [4] {avocado,   
## turkey}   
## [5] {energy bar,   
## green tea,   
## milk,   
## mineral water,   
## whole wheat rice}   
## [6] {low fat yogurt}

#Checking the composition of the dataset  
items<-as.data.frame(itemLabels(smak))  
colnames(items) <- "Item"  
head(items, 10)

## Item  
## 1 almonds  
## 2 antioxydant juice  
## 3 asparagus  
## 4 avocado  
## 5 babies food  
## 6 bacon  
## 7 barbecue sauce  
## 8 black tea  
## 9 blueberries  
## 10 body spray

#Step 4: Performing some frequency analysis, transactions ranging 7:10  
itemFrequency(smak[, 7:10],type = "absolute")

## barbecue sauce black tea blueberries body spray   
## 81 107 69 86

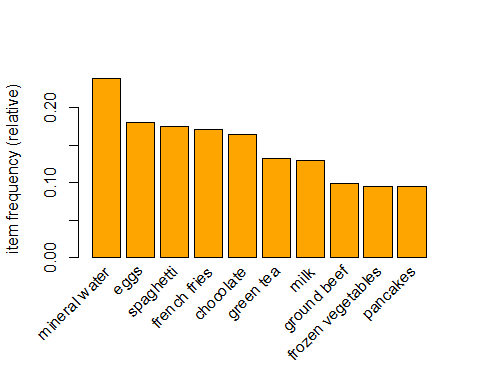
round(itemFrequency(smak[, 7:10],type = "relative")\*100,2)

## barbecue sauce black tea blueberries body spray   
## 1.08 1.43 0.92 1.15

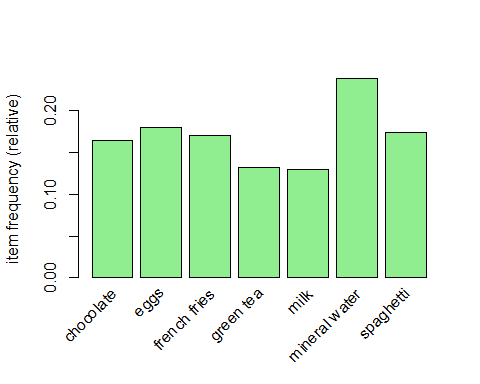
The output dsiplays items with the most frequencies. The second model displays the most common items per 100 items

## Step 5: Visualizations of the above outputs, we will display 10 items  
par(mfrow = c(1, 2))

# plot the frequency of items  
itemFrequencyPlot(smak, topN = 10,col="Orange")



itemFrequencyPlot(smak, support = 0.1,col="lightgreen")

 The graphs plot items that are popular among shoppers

#Step 6:Buidling a model: support = 0.001, confidence 0.85.   
rule <- apriori (smak, parameter = list(supp = 0.001, conf = 0.85))

## Apriori  
##   
## Parameter specification:  
## confidence minval smax arem aval originalSupport maxtime support minlen  
## 0.85 0.1 1 none FALSE TRUE 5 0.001 1  
## maxlen target ext  
## 10 rules TRUE  
##   
## Algorithmic control:  
## filter tree heap memopt load sort verbose  
## 0.1 TRUE TRUE FALSE TRUE 2 TRUE  
##   
## Absolute minimum support count: 7   
##   
## set item appearances ...[0 item(s)] done [0.00s].  
## set transactions ...[119 item(s), 7501 transaction(s)] done [0.00s].  
## sorting and recoding items ... [116 item(s)] done [0.00s].  
## creating transaction tree ... done [0.00s].  
## checking subsets of size 1 2 3 4 5 6 done [0.01s].  
## writing ... [29 rule(s)] done [0.00s].  
## creating S4 object ... done [0.00s].

rule

## set of 29 rules

The model has yielded 29 rules.The rules are moderate since the model does not loose intresting rules due to a high level of support or generate many rules that will not be useful

#Summary of the above models  
summary(rule)

## set of 29 rules  
##   
## rule length distribution (lhs + rhs):sizes  
## 3 4 5 6   
## 5 19 4 1   
##   
## Min. 1st Qu. Median Mean 3rd Qu. Max.   
## 3.000 4.000 4.000 4.034 4.000 6.000   
##   
## summary of quality measures:  
## support confidence coverage lift   
## Min. :0.001067 Min. :0.8571 Min. :0.001067 Min. : 3.596   
## 1st Qu.:0.001067 1st Qu.:0.8889 1st Qu.:0.001200 1st Qu.: 3.729   
## Median :0.001067 Median :0.8889 Median :0.001200 Median : 4.946   
## Mean :0.001273 Mean :0.9070 Mean :0.001407 Mean : 6.050   
## 3rd Qu.:0.001333 3rd Qu.:0.9091 3rd Qu.:0.001466 3rd Qu.: 7.717   
## Max. :0.002533 Max. :1.0000 Max. :0.002666 Max. :12.722   
## count   
## Min. : 8.000   
## 1st Qu.: 8.000   
## Median : 8.000   
## Mean : 9.552   
## 3rd Qu.:10.000   
## Max. :19.000   
##   
## mining info:  
## data ntransactions support confidence  
## smak 7501 0.001 0.85  
## call  
## apriori(data = smak, parameter = list(supp = 0.001, conf = 0.85))

The summary captures summary statistics. 7501 are ntransaction with a 0.001 min support and 85% level of confidence.

#Making an observations on the rules we have built in the first model, the first five   
  
inspect(rule[1:5])

## lhs rhs support confidence  
## [1] {frozen smoothie, spinach} => {mineral water} 0.001066524 0.8888889   
## [2] {ground beef, nonfat milk} => {mineral water} 0.001599787 0.8571429   
## [3] {mushroom cream sauce, pasta} => {escalope} 0.002532996 0.9500000   
## [4] {milk, pasta} => {shrimp} 0.001599787 0.8571429   
## [5] {red wine, soup} => {mineral water} 0.001866418 0.9333333   
## coverage lift count  
## [1] 0.001199840 3.729058 8   
## [2] 0.001866418 3.595877 12   
## [3] 0.002666311 11.976387 19   
## [4] 0.001866418 11.995203 12   
## [5] 0.001999733 3.915511 14

##Interpretation #Rule 1 A client who has purchased a froozen smopthie and a spinach has an 88.9% chance of buying mineral water. #Rule 3 Has the highest level at 95% A client that has purchased mushroom cream sauce has a 95% chance of purchasing an escalope

#Changing the criteria and using the level of confidence  
  
rule <-sort(rule, by="confidence", decreasing=TRUE)  
inspect(rule[1:5])

## lhs rhs support confidence coverage lift count  
## [1] {french fries,   
## mushroom cream sauce,   
## pasta} => {escalope} 0.001066524 1.00 0.001066524 12.606723 8  
## [2] {ground beef,   
## light cream,   
## olive oil} => {mineral water} 0.001199840 1.00 0.001199840 4.195190 9  
## [3] {cake,   
## meatballs,   
## mineral water} => {milk} 0.001066524 1.00 0.001066524 7.717078 8  
## [4] {cake,   
## olive oil,   
## shrimp} => {mineral water} 0.001199840 1.00 0.001199840 4.195190 9  
## [5] {mushroom cream sauce,   
## pasta} => {escalope} 0.002532996 0.95 0.002666311 11.976387 19

All models yield a 100% accuracy except rule number 5 which yields a 95% accuracy.

#Since escalope was the most common output,we try and predict what customers' characteristics. This may help Carrefour promote its sale  
#Finding out what products customers bought before buying mineral water  
mineralwater <- subset(rule, subset = rhs %pin% "mineralwater")

####Anomaly Detection

#Installing the packages needed and Running the libraries  
library(anomalize)

## == Use anomalize to improve your Forecasts by 50%! =============================  
## Business Science offers a 1-hour course - Lab #18: Time Series Anomaly Detection!  
## </> Learn more at: https://university.business-science.io/p/learning-labs-pro </>

# Reading the top of the data  
sales <- read.csv("http://bit.ly/CarreFourSalesDataset")  
head(sales)

## Date Sales  
## 1 1/5/2019 548.9715  
## 2 3/8/2019 80.2200  
## 3 3/3/2019 340.5255  
## 4 1/27/2019 489.0480  
## 5 2/8/2019 634.3785  
## 6 3/25/2019 627.6165

#Viewig the tail of the dataset  
tail(sales)

## Date Sales  
## 995 2/18/2019 63.9975  
## 996 1/29/2019 42.3675  
## 997 3/2/2019 1022.4900  
## 998 2/9/2019 33.4320  
## 999 2/22/2019 69.1110  
## 1000 2/18/2019 649.2990

The dataset contains 1000 entries and 2 columns

#Viewing the structure of the dataset  
str(sales)

## 'data.frame': 1000 obs. of 2 variables:  
## $ Date : chr "1/5/2019" "3/8/2019" "3/3/2019" "1/27/2019" ...  
## $ Sales: num 549 80.2 340.5 489 634.4 ...

Date=character, sales numerical

#Changing the date column to date datatype from Character  
Date = as.Date(sales$Date)

# Convert df to a tibble  
sales\_1 <- as\_tibble(sales)  
class(sales\_1)

## [1] "tbl\_df" "tbl" "data.frame"

# Converting a data.frame to a `tbl\_time`  
sales\_1$Date <- as.Date(sales\_1$Date, format = "%m/%d/%y")

#Convertion to POCIXct type  
sales\_1$Date <- as.POSIXct(sales\_1$Date)

#Using the anomalize package  
anomalized <- sales\_1 %>%  
 time\_decompose(Sales, merge = TRUE) %>%  
 anomalize(remainder) %>%  
 time\_recompose()

## Converting from tbl\_df to tbl\_time.  
## Auto-index message: index = Date

## Note: Index not ordered. tibbletime assumes index is in ascending order. Results may not be as desired.

## frequency = 12 seconds

## Note: Index not ordered. tibbletime assumes index is in ascending order. Results may not be as desired.

## trend = 12 seconds

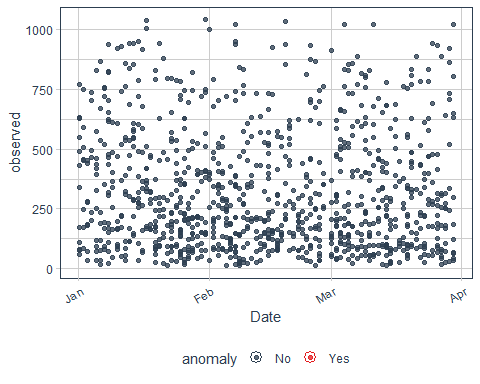
## Registered S3 method overwritten by 'quantmod':  
## method from  
## as.zoo.data.frame zoo

anomalized %>% glimpse()

## Rows: 1,000  
## Columns: 11  
## $ Date <dttm> 2020-01-01 03:00:00, 2020-01-01 03:00:00, 2020-01-01 03~  
## $ Sales <dbl> 457.4430, 399.7560, 470.6730, 388.2900, 132.7620, 132.02~  
## $ observed <dbl> 548.9715, 80.2200, 340.5255, 489.0480, 634.3785, 627.616~  
## $ season <dbl> -14.359190, -4.462252, 28.744495, 23.243172, -13.844108,~  
## $ trend <dbl> 445.2248, 445.5012, 445.7776, 435.9271, 426.0767, 416.19~  
## $ remainder <dbl> 118.105886, -360.818930, -133.996555, 29.877684, 222.145~  
## $ remainder\_l1 <dbl> -917.358, -917.358, -917.358, -917.358, -917.358, -917.3~  
## $ remainder\_l2 <dbl> 946.1539, 946.1539, 946.1539, 946.1539, 946.1539, 946.15~  
## $ anomaly <chr> "No", "No", "No", "No", "No", "No", "No", "No", "No", "N~  
## $ recomposed\_l1 <dbl> -486.4924, -476.3191, -442.8360, -458.1877, -505.1254, -~  
## $ recomposed\_l2 <dbl> 1377.020, 1387.193, 1420.676, 1405.324, 1358.387, 1372.7~

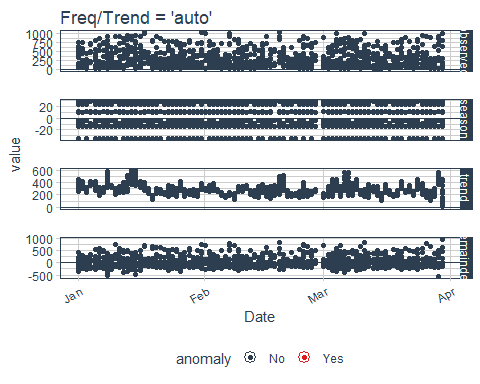
The output helps us to investigate and identify the outliers.The anomalies have not yet been identified

#Visualizing the above command  
anomalized %>% plot\_anomalies(ncol = 3, alpha\_dots = 0.75)



The data needs adjustments to weed out anomalies

#Adjusting trend and seasonality  
dfg <- anomalized %>%  
 plot\_anomaly\_decomposition() +  
 ggtitle("Freq/Trend = 'auto'")  
dfg



The data’s anomaly is still yet to be identified

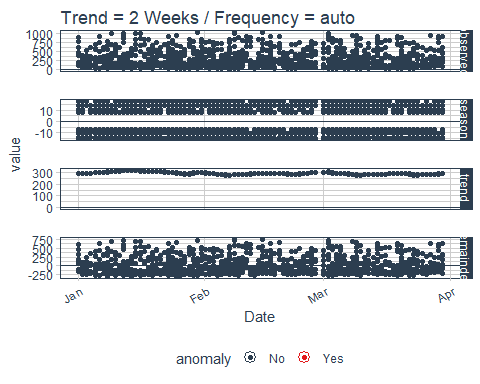
#Ajusted and logical arguements  
anomalized %>%  
 time\_decompose(Sales, frequency = "auto", trend = "2 weeks")%>%  
 anomalize(remainder)%>%  
 plot\_anomaly\_decomposition()+  
 ggtitle("Trend = 2 Weeks / Frequency = auto ")

## frequency = 11 seconds

## Warning in lubridate::floor\_date(x, unit): Multi-unit not supported for weeks.  
## Ignoring.

## Warning in lubridate::ceiling\_date(x, unit): Multi-unit not supported for weeks.  
## Ignoring.

## trend = 153 seconds



# tuning parameters using (0.05 confidence level)  
sales\_1%>%  
 time\_decompose(Sales)%>%  
 anomalize(remainder, alpha = 0.05)%>%  
 time\_recompose()%>%  
 plot\_anomalies(time\_recompose = T)+  
 ggtitle("alpha = 0.05")

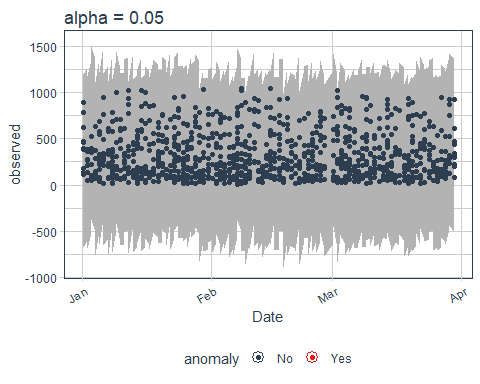
## Converting from tbl\_df to tbl\_time.  
## Auto-index message: index = Date

## Note: Index not ordered. tibbletime assumes index is in ascending order. Results may not be as desired.

## frequency = 12 seconds

## Note: Index not ordered. tibbletime assumes index is in ascending order. Results may not be as desired.

## trend = 12 seconds



Their still no visible anomalies, changing the confidence interval

#Adjusting the alpha level to 0.025  
sales\_1%>%  
 time\_decompose(Sales)%>%  
 anomalize(remainder, alpha = 0.025)%>%  
 time\_recompose()%>%  
 plot\_anomalies(time\_recompose = T)+  
 ggtitle("alpha = 0.025")

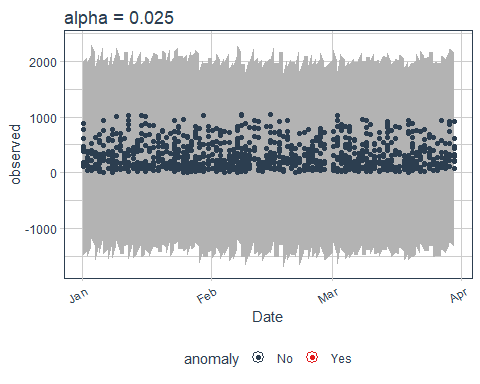
## Converting from tbl\_df to tbl\_time.  
## Auto-index message: index = Date

## Note: Index not ordered. tibbletime assumes index is in ascending order. Results may not be as desired.

## frequency = 12 seconds

## Note: Index not ordered. tibbletime assumes index is in ascending order. Results may not be as desired.

## trend = 12 seconds



#Adjusting the anomaly limit  
sales\_1%>%  
 time\_decompose(Sales)%>%  
 anomalize(remainder, alpha = 0.2, max\_anoms = 0.2)%>%  
 time\_recompose()%>%  
 plot\_anomalies(time\_recompose = T)+  
 ggtitle("Anomaly limit = 20%")

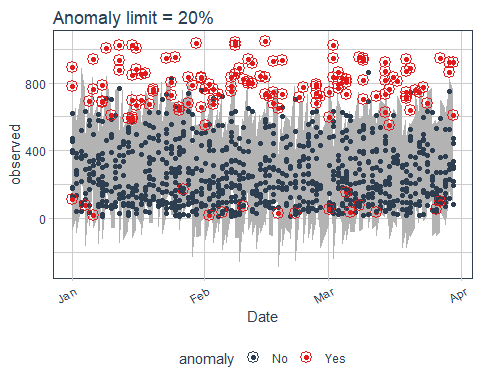
## Converting from tbl\_df to tbl\_time.  
## Auto-index message: index = Date

## Note: Index not ordered. tibbletime assumes index is in ascending order. Results may not be as desired.

## frequency = 12 seconds

## Note: Index not ordered. tibbletime assumes index is in ascending order. Results may not be as desired.

## trend = 12 seconds

 The anomalies can now be seen and viewed. The extreme values are now vsisible

#Reducing the anomaly limit and observing the changes  
sales\_1%>%  
 time\_decompose(Sales)%>%  
 anomalize(remainder, alpha = 0.2, max\_anoms = 0.05)%>%  
 time\_recompose()%>%  
 plot\_anomalies(time\_recompose = T)+  
 ggtitle("Anomaly limit = 5%")

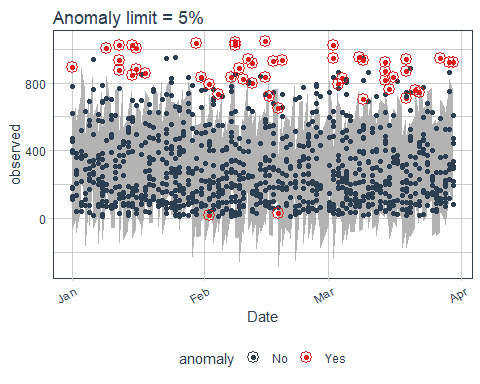
## Converting from tbl\_df to tbl\_time.  
## Auto-index message: index = Date

## Note: Index not ordered. tibbletime assumes index is in ascending order. Results may not be as desired.

## frequency = 12 seconds

## Note: Index not ordered. tibbletime assumes index is in ascending order. Results may not be as desired.

## trend = 12 seconds

 The anomalies reduced significantly among most months.The most affected months were January and February.

###Conclusion Sales have dramatically increased between January to March, meaning that the marketing campaigns have been effective.

###Recomendations The marketing team should consider expounding their research data to other months.