hw5

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library(readxl)  
df <- read\_excel("C:/Users/Yue Sun/Desktop/msca/fall 2020/msca 31015 consulting/week 4/Fitness Club Data.xlsx")  
df = subset(df, (age > 5) & (df$age < 80)) # clean the data  
df = subset(df, df$price != df$downpmt)  
View(df)  
head(df)

## # A tibble: 6 x 9  
## enrolldt price downpmt monthdue pmttype use age gender default  
## <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl>  
## 1 19971221 1378 175 4 1 0 10 2 0  
## 2 19980602 899 100 10 1 0 10 2 0  
## 3 19990129 1986 1000 9 4 0 10 2 0  
## 4 19980622 1536. 55 6 4 0 13 2 0  
## 5 19981118 1505. 51 8 4 1 13 1 0  
## 6 19990303 1553 100 2 5 3 13 2 0

# 1. Calculate basic stats descriptive statistics (mean, median, min, max, standard deviation) for each field

range.date = c(min(df$enrolldt) , max(df$enrolldt))  
range.date

## [1] 19970101 19990331

c(sd(df$price),sd(df$downpmt), sd(df$monthdue),sd(df$age),sd(df$default))

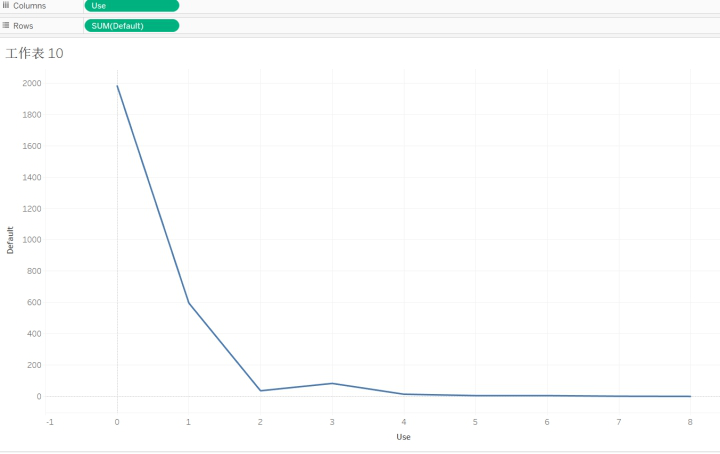
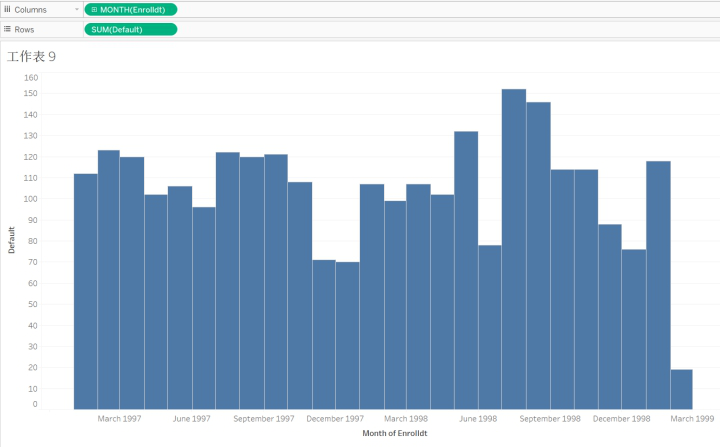
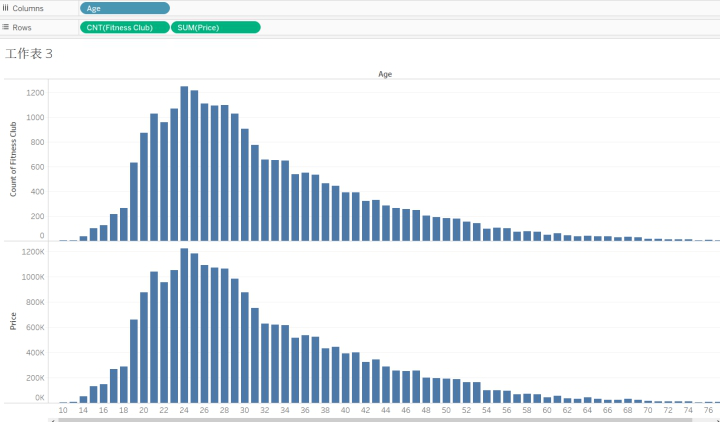
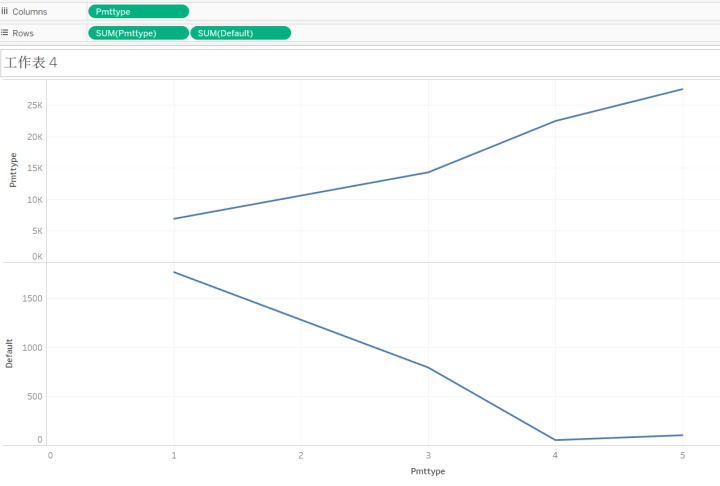
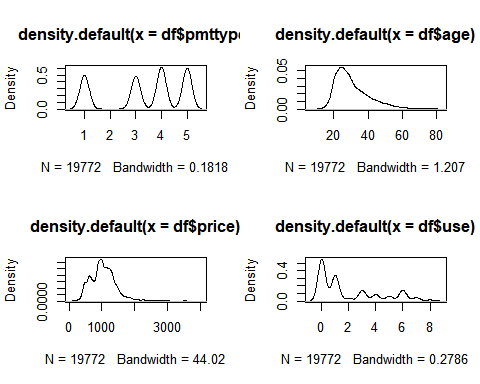
## [1] 373.9580485 97.3342736 5.8927015 10.1041751 0.3446146

summary(df)

## enrolldt price downpmt monthdue   
## Min. :19970101 Min. : 176.4 Min. : 0.0 Min. : 0.000   
## 1st Qu.:19970915 1st Qu.: 780.0 1st Qu.: 30.0 1st Qu.: 5.000   
## Median :19980416 Median : 999.0 Median : 76.0 Median : 6.000   
## Mean :19978565 Mean :1038.1 Mean : 102.5 Mean : 8.002   
## 3rd Qu.:19981026 3rd Qu.:1254.0 3rd Qu.: 150.0 3rd Qu.: 9.000   
## Max. :19990331 Max. :3893.8 Max. :1323.0 Max. :81.510   
## pmttype use age gender   
## Min. :1.000 Min. :0.000 Min. :10.00 Min. :1.000   
## 1st Qu.:3.000 1st Qu.:0.000 1st Qu.:23.00 1st Qu.:1.000   
## Median :4.000 Median :1.000 Median :28.00 Median :1.000   
## Mean :3.374 Mean :1.952 Mean :30.74 Mean :1.494   
## 3rd Qu.:5.000 3rd Qu.:3.000 3rd Qu.:36.00 3rd Qu.:2.000   
## Max. :5.000 Max. :8.000 Max. :79.00 Max. :2.000   
## default   
## Min. :0.0000   
## 1st Qu.:0.0000   
## Median :0.0000   
## Mean :0.1377   
## 3rd Qu.:0.0000   
## Max. :1.0000

# 2. Visualize distributions of data elements using histograms for key variables and predict which variables you expect to be most correlated with default/churn.

par(mfrow=c(2,2))  
plot(density(df$pmttype))  
plot(density(df$age))  
plot(density(df$price))  
plot(density(df$use))



correlation = c(age.factor = cor(df$age , df$default), payment.type.factor = cor(df$pmttype,df$default),   
 gender = cor(df$gender,df$default), price.factor = cor(df$price, df$default),  
 downpmt.factor = cor(df$downpmt, df$default), monthdue = cor(df$monthdue,df$default),  
 use = cor(df$use,df$default))  
sort(correlation)

## payment.type.factor use downpmt.factor age.factor   
## -0.43019874 -0.27351641 -0.19717950 -0.09142983   
## gender monthdue price.factor   
## -0.04457216 -0.02417072 -0.00289382

# payment type is most correlated with default

# 3.Calculate Linear and/or Logistic Regression Models to Predict Churn/Retention, you may choose to identify groups within the data to narrow your focus on. (The “default” variable = churn, you may choose to only use age and payment type to build a model to predict “default” = churn)

#model = lm(df$default~df$age + df$pmttype + df$use + df$downpmt)  
#summary(model)  
#predict(model)  
input\_ones = df[which(df$default == 1), ]  
input\_zeros = df[which(df$default == 0), ]  
set.seed(100)  
input\_ones\_training\_rows = sample(1:nrow(input\_ones), 0.7\*nrow(input\_ones))  
input\_zeros\_training\_rows <- sample(1:nrow(input\_zeros), 0.7\*nrow(input\_ones)) # 0's for training. Pick as many 0's as 1's  
training\_ones <- input\_ones[input\_ones\_training\_rows, ]   
training\_zeros <- input\_zeros[input\_zeros\_training\_rows, ]  
trainingData <- rbind(training\_ones, training\_zeros) # row bind the 1's and 0's   
  
# Create Test Data  
test\_ones <- input\_ones[-input\_ones\_training\_rows, ]  
test\_zeros <- input\_zeros[-input\_zeros\_training\_rows, ]  
testData <- rbind(test\_ones, test\_zeros)   
  
logitMod = glm(default ~ price+ pmttype + use + downpmt, data = df, family = binomial(link = "logit"))  
predicted <- plogis(predict(logitMod, testData))  
predicted

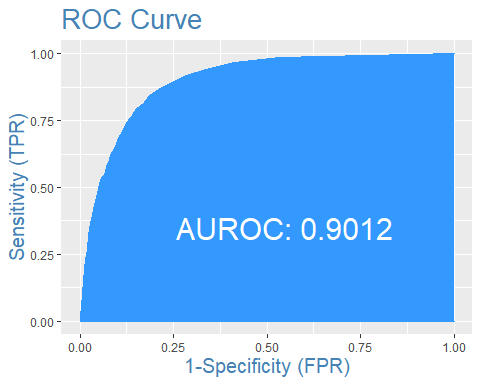
## 1 2 3 4 5 6   
## 2.277987e-01 7.128639e-02 7.543786e-01 6.804295e-01 2.170165e-01 4.647691e-02   
## 7 8 9 10 11 12   
## 5.930496e-01 5.287717e-01 3.422942e-01 4.505063e-01 5.272568e-01 6.153376e-01   
## 13 14 15 16 17 18   
## 6.423429e-01 1.788154e-01 6.209331e-01 6.949921e-02 6.640772e-01 1.743941e-02   
## 19 20 21 22 23 24   
## 3.908047e-01 2.358865e-01 2.776062e-01 1.689722e-01 2.342991e-01 6.751553e-01   
## 25 26 27 28 29 30   
## 3.071577e-01 4.490924e-01 5.389165e-02 1.597647e-01 2.440033e-01 1.265729e-01   
## 31 32 33 34 35 36   
## 2.070946e-01 2.169580e-01 1.471035e-01 1.249785e-02 8.022261e-01 8.022261e-01   
## 37 38 39 40 41 42   
## 6.041629e-01 4.181873e-01 2.926235e-01 6.602019e-01 5.812761e-01 6.666291e-01   
## 43 44 45 46 47 48   
## 5.178220e-01 4.020031e-01 6.692150e-01 4.960640e-01 4.554442e-01 6.087516e-01   
## 49 50 51 52 53 54   
## 7.039879e-01 6.620212e-01 6.906438e-01 6.220017e-01 3.776423e-01 6.361198e-02   
## 55 56 57 58 59 60   
## 4.028132e-01 4.073593e-01 6.120542e-01 5.109320e-01 6.849689e-02 7.630075e-01   
## 61 62 63 64 65 66   
## 1.321216e-01 6.615621e-01 1.136177e-01 4.778999e-01 4.996101e-01 7.340408e-01   
## 67 68 69 70 71 72   
## 5.054137e-02 6.043484e-01 7.010568e-01 3.553710e-01 9.853792e-02 5.195655e-01   
## 73 74 75 76 77 78   
## 1.943181e-01 1.832928e-01 2.445500e-01 4.428732e-01 7.280106e-01 7.182308e-01   
## 79 80 81 82 83 84   
## 6.910564e-01 5.511027e-01 7.502484e-01 5.901965e-01 6.906017e-01 6.709250e-01   
## 85 86 87 88 89 90   
## 6.589130e-01 5.879620e-01 5.819460e-01 5.819780e-01 5.450469e-01 5.812761e-01   
## 91 92 93 94 95 96   
## 5.669158e-01 5.812761e-01 9.606753e-02 6.180654e-01 2.097090e-01 9.450175e-01   
## 97 98 99 100 101 102   
## 1.325887e-01 7.808101e-01 7.630075e-01 6.652800e-01 5.463952e-01 6.268550e-01   
## 103 104 105 106 107 108   
## 5.317249e-01 5.377757e-01 6.087516e-01 5.889055e-01 8.448425e-01 6.240997e-01   
## 109 110 111 112 113 114   
## 4.611839e-01 5.829768e-01 5.707405e-01 6.300300e-01 5.429149e-01 5.058901e-01   
## 115 116 117 118 119 120   
## 5.109320e-01 7.426728e-02 1.860081e-02 6.090134e-01 1.567110e-01 1.176747e-01   
## 121 122 123 124 125 126   
## 5.013076e-01 2.731406e-01 3.534262e-01 3.466002e-01 6.849472e-02 2.424296e-01   
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## 5.343806e-02 3.732638e-01 2.325547e-01 8.788643e-02 3.830249e-01 1.872530e-01   
## 133 134 135 136 137 138   
## 1.103742e-01 1.945678e-01 6.317118e-01 6.529745e-01 6.330953e-01 5.429149e-01   
## 139 140 141 142 143 144   
## 6.902973e-01 7.289995e-01 6.078372e-01 7.630075e-01 5.226999e-01 6.207801e-01   
## 145 146 147 148 149 150   
## 6.396254e-01 6.336848e-01 6.965491e-01 6.776823e-01 5.769706e-01 7.261534e-01   
## 151 152 153 154 155 156   
## 7.412864e-01 6.071071e-01 9.862785e-02 5.343224e-01 6.430714e-01 5.223797e-01   
## 157 158 159 160 161 162   
## 6.769383e-01 6.832571e-01 5.935446e-01 7.110985e-01 6.207801e-01 5.317249e-01   
## 163 164 165 166 167 168   
## 4.462367e-01 7.581044e-01 4.749870e-01 8.898025e-01 5.048370e-01 4.073593e-01   
## 169 170 171 172 173 174   
## 6.139706e-01 6.615621e-01 7.093090e-01 2.196362e-01 3.212621e-01 2.451517e-01   
## 175 176 177 178 179 180   
## 2.909626e-01 7.454586e-02 3.071577e-01 1.945678e-01 3.154122e-01 2.546267e-01   
## 181 182 183 184 185 186   
## 2.030188e-02 1.825562e-01 3.260408e-01 7.609986e-02 3.607815e-02 2.275996e-01   
## 187 188 189 190 191 192   
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## 193 194 195 196 197 198   
## 8.151006e-01 6.978487e-01 7.720416e-01 6.331707e-01 6.333961e-01 5.059855e-01   
## 199 200 201 202 203 204   
## 7.768389e-01 3.534521e-01 2.751049e-01 6.003423e-01 6.765611e-01 3.837008e-01   
## 205 206 207 208 209 210   
## 5.767231e-01 3.414624e-01 6.709250e-01 6.366682e-01 6.125127e-01 5.669158e-01   
## 211 212 213 214 215 216   
## 4.722129e-01 6.893388e-01 4.727629e-01 5.463952e-01 6.561072e-01 7.264660e-01   
## 217 218 219 220 221 222   
## 1.027804e-01 3.032214e-01 7.698995e-01 5.384126e-01 5.986806e-01 4.887955e-01   
## 223 224 225 226 227 228   
## 5.723469e-01 9.263440e-02 6.396254e-01 6.040414e-01 6.719473e-01 5.148799e-01   
## 229 230 231 232 233 234   
## 5.048370e-01 6.708086e-01 2.120221e-01 5.144451e-01 5.048370e-01 4.611839e-01   
## 235 236 237 238 239 240   
## 7.746737e-04 5.984956e-01 2.599123e-01 2.575787e-01 6.931225e-01 5.206966e-03   
## 241 242 243 244 245 246   
## 1.588381e-01 2.468532e-01 4.714752e-02 2.067093e-01 3.945025e-01 1.489341e-01   
## 247 248 249 250 251 252   
## 2.610118e-01 1.544091e-01 6.813999e-01 6.041629e-01 6.849351e-01 6.528361e-01   
## 253 254 255 256 257 258   
## 4.711389e-01 6.177243e-01 5.901965e-01 4.427502e-01 7.545553e-01 6.709250e-01   
## 259 260 261 262 263 264   
## 2.643029e-01 6.396254e-01 5.450067e-01 7.842636e-01 5.272568e-01 5.635097e-01   
## 265 266 267 268 269 270   
## 3.598856e-01 4.409401e-01 1.434009e-01 7.614249e-01 4.272587e-02 6.044957e-01   
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## 307 308 309 310 311 312   
## 8.822822e-02 8.173704e-01 6.396254e-01 6.064596e-01 6.849351e-01 6.083857e-01   
## 313 314 315 316 317 318   
## 5.246081e-01 6.180654e-01 6.271059e-01 5.583377e-01 8.918174e-01 7.630075e-01   
## 319 320 321 322 323 324   
## 5.935446e-01 4.238361e-01 7.219827e-01 4.949806e-01 4.887955e-01 5.193181e-01   
## 325 326 327 328 329 330   
## 4.408426e-01 3.973774e-01 4.020031e-01 6.087897e-01 6.414881e-01 2.858270e-01   
## 331 332 333 334 335 336   
## 6.849351e-01 4.301166e-01 1.693477e-01 6.259482e-02 7.008294e-01 3.238248e-01   
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## 1.963334e-01 1.641769e-01 1.606847e-01 1.641769e-01 2.258110e-01 6.264894e-02   
## 343 344 345 346 347 348   
## 1.011231e-01 2.073676e-01 4.826303e-01 2.279408e-01 3.066272e-01 3.066272e-01   
## 349 350 351 352 353 354   
## 3.926274e-01 6.268190e-01 6.589130e-01 6.497625e-02 5.145417e-01 7.545553e-01   
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## 6.620212e-01 7.630075e-01 7.289995e-01 6.315108e-01 6.592278e-01 5.730374e-01   
## 361 362 363 364 365 366   
## 5.463952e-01 4.672491e-01 3.861827e-01 7.630075e-01 7.545553e-01 1.067884e-01   
## 367 368 369 370 371 372   
## 6.589130e-01 6.620212e-01 7.583345e-01 7.289995e-01 7.630075e-01 5.635097e-01   
## 373 374 375 376 377 378   
## 5.968840e-01 4.166029e-01 8.210441e-01 4.427502e-01 6.162446e-01 4.549584e-01   
## 379 380 381 382 383 384   
## 6.849290e-01 6.646584e-01 7.817150e-01 7.259996e-01 2.240676e-01 2.100492e-01   
## 385 386 387 388 389 390   
## 2.480819e-01 3.534262e-01 1.483409e-01 3.941782e-01 1.205908e-01 3.397115e-01   
## 391 392 393 394 395 396   
## 2.468532e-01 5.391126e-02 3.187141e-02 1.606847e-01 1.338437e-01 1.414812e-01   
## 397 398 399 400 401 402   
## 6.646584e-01 4.789565e-01 4.539113e-01 7.708068e-01 5.904514e-01 7.979195e-01   
## 403 404 405 406 407 408   
## 6.967750e-01 5.904514e-01 4.238361e-01 9.547430e-02 6.180654e-01 1.094101e-01   
## 409 410 411 412 413 414   
## 6.583269e-01 2.991205e-01 5.778988e-01 6.495906e-01 5.681151e-01 4.527283e-01   
## 415 416 417 418 419 420   
## 6.646584e-01 2.741994e-01 1.081029e-01 6.709250e-01 3.375269e-01 3.696369e-01   
## 421 422 423 424 425 426   
## 5.000363e-01 6.423429e-01 4.996101e-01 7.630075e-01 7.044211e-01 7.805063e-01   
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## 433 434 435 436 437 438   
## 1.689722e-01 4.057868e-01 1.357904e-01 3.400640e-01 1.205908e-01 2.805391e-01   
## 439 440 441 442 443 444   
## 2.818362e-01 1.356287e-01 6.431878e-01 6.109449e-01 6.021886e-01 9.143626e-01   
## 445 446 447 448 449 450   
## 7.757312e-01 6.589130e-01 5.748477e-01 5.096419e-01 5.748408e-01 4.251856e-01   
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## 463 464 465 466 467 468   
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## 469 470 471 472 473 474   
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## 475 476 477 478 479 480   
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## 481 482 483 484 485 486   
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## 487 488 489 490 491 492   
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## 493 494 495 496 497 498   
## 1.849278e-01 7.224870e-01 5.070968e-02 5.066716e-01 2.454599e-02 5.576780e-01   
## 499 500 501 502 503 504   
## 3.421885e-01 6.646584e-01 6.848133e-01 2.312746e-01 4.690863e-01 4.996101e-01   
## 505 506 507 508 509 510   
## 5.545842e-01 2.765709e-01 2.787794e-01 2.107538e-01 9.502972e-02 1.011231e-01   
## 511 512 513 514 515 516   
## 3.071577e-01 3.841293e-01 1.020279e-01 2.240891e-01 3.521732e-01 7.289995e-01   
## 517 518 519 520 521 522   
## 7.039879e-01 6.003478e-01 1.205662e-01 2.751049e-01 4.116622e-01 5.317404e-01   
## 523 524 525 526 527 528   
## 6.281716e-01 5.801490e-01 5.748408e-01 6.119878e-01 3.423656e-02 5.143605e-01   
## 529 530 531 532 533 534   
## 7.387515e-01 7.060960e-02 1.096419e-01 7.252304e-01 5.707405e-01 5.981943e-01   
## 535 536 537 538 539 540   
## 6.195171e-01 3.097272e-02 4.499568e-01 6.029222e-01 8.331807e-01 7.630075e-01   
## 541 542 543 544 545 546   
## 1.178021e-01 4.194381e-02 2.930828e-01 3.865109e-01 1.825562e-01 2.326517e-01   
## 547 548 549 550 551 552   
## 6.825586e-02 1.679845e-03 8.901855e-02 4.033147e-03 1.606847e-01 6.011268e-02   
## 553 554 555 556 557 558   
## 1.291243e-01 6.824641e-01 5.935446e-01 9.450175e-01 3.604712e-02 6.978487e-01   
## 559 560 561 562 563 564   
## 6.646584e-01 6.583269e-01 3.341730e-01 3.138366e-01 6.611677e-01 2.749197e-01   
## 565 566 567 568 569 570   
## 6.738621e-01 7.583345e-01 5.066716e-01 4.356116e-01 6.455209e-01 6.875605e-01   
## 571 572 573 574 575 576   
## 3.233506e-02 2.508367e-02 1.254154e-01 4.493610e-01 5.101448e-02 7.630075e-01   
## 577 578 579 580 581 582   
## 7.267328e-01 2.357275e-01 3.637652e-01 3.212621e-01 3.530786e-01 2.371833e-02   
## 583 584 585 586 587 588   
## 5.616794e-02 6.170902e-02 5.426493e-02 6.459901e-01 6.330953e-01 6.849351e-01   
## 589 590 591 592 593 594   
## 5.636698e-01 4.314710e-01 7.096333e-01 7.337432e-01 5.717079e-01 5.754777e-01   
## 595 596 597 598 599 600   
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## 15949 15950 15951 15952 15953 15954   
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## 15955 15956 15957 15958 15959 15960   
## 1.492449e-04 1.067927e-02 2.079127e-02 5.205291e-03 4.092583e-02 4.164721e-02

summary(logitMod)

##   
## Call:  
## glm(formula = default ~ price + pmttype + use + downpmt, family = binomial(link = "logit"),   
## data = df)  
##   
## Deviance Residuals:   
## Min 1Q Median 3Q Max   
## -2.2271 -0.4018 -0.1726 -0.0438 4.3098   
##   
## Coefficients:  
## Estimate Std. Error z value Pr(>|z|)   
## (Intercept) 8.091e-01 8.317e-02 9.728 <2e-16 \*\*\*  
## price 1.283e-03 7.925e-05 16.196 <2e-16 \*\*\*  
## pmttype -8.527e-01 1.945e-02 -43.852 <2e-16 \*\*\*  
## use -6.857e-01 2.664e-02 -25.739 <2e-16 \*\*\*  
## downpmt -1.386e-02 5.593e-04 -24.780 <2e-16 \*\*\*  
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## (Dispersion parameter for binomial family taken to be 1)  
##   
## Null deviance: 15849.4 on 19771 degrees of freedom  
## Residual deviance: 9853.6 on 19767 degrees of freedom  
## AIC: 9863.6  
##   
## Number of Fisher Scoring iterations: 7

# 4. Display the output visually using charts of your choosing and explain your choice. (ROC Curve)

#install.packages("InformationValue")  
library(InformationValue)  
plotROC(testData$default, predicted)



4. When the cut-off value of prediction probability is reduced from 1 to 0, the receiver operating characteristic curve tracks the percentage of true positives accurately predicted by the given logit model. For a good model, the curve should rise sharply, indicating that TPR (Y-axis) grows faster than fpr (x-axis) with the decrease of boundary points. The larger the area under the ROC curve, the better the prediction ability of the model. In this graph, the precision is 0.9012.

5. In addition to the spreadsheet/code or programming output you submit, include a separate written document of 250-500 words that summarizes your process.

At first, I used tableau to analyze the data by segments. Then I found that there was a great correlation between payment type and default. Payment type 1 had the least number of payment transactions, but had the most default. Payment type 5 had the most payment times but had the least default. This finding can be incorporated into the dependent variables of the prediction model. Then I use R to calculate the stats of variables of the data, including the average value, median value, maximum value and minimum value and use the correlation function to calculate the correlation between default and each variable. Then I found that the default and payment method have a relatively large negative correlation. Then I referred to the method on the website <http://r-statistics.co/Logistic-Regression-With-R.html> and selected logistic regression model for prediction. Originally, I tried to use linear regression, but I found that the R squared I got was less than 30%. I realized that the linear regression could not well predict the default value which follows the Bernoulli distribution, so I changed to logistic regression model. First, I separate the two result data of default, then create training and test samples, and use the corresponding code to build logit models and to predict. Finally, referring to the methods on the website, I used ROC to present the accuracy of prediction. I tried to adjust the dependent variable. At present, I only found that the combination of down payment, payment type, price and use can achieve a relatively high precision value.

6. Discuss why certain variables you expected to be significant are/are not and any other unexpected insights.

Based on quantitative data, I visualized payment type versus default and found out the obvious pattern between these two variables. I also found the similar pattern between default and use. When I saw the line graph about age and default, I saw clearly that the individual whose age is between 21 and 24 is more likely to default while people who are younger or older are not. This is also a certain pattern that can been considered in the model. So I add age in the predictive model as another variable. On the graph of use versus default, I can see that as use increases, default decreases dramatically. It makes sense because if customers are more frequently to use the fitness center often, they will not necessarily default. I add use as another variable. In terms of down payment, customers tend to default as they have less down payment. Later on, I removed age because after I add all these variables, the precision decreased by 1%. The precision increased by 1% after I removed age.