Real Data Work

Azeez

09/12/2021

Exercise using real data Topic: Nigerian Migration Survey

Research Questions #1 Do transnational migrants households earn higher income? #2 Are migrants more educated than non-migrants? #3 What is the effect of household religion on income?

Steps #1 checking working directory #2 upload the file

getwd()

## [1] "C:/Users/dell/OneDrive/Documents/R/R Class"

library(haven)  
consolidated <- read\_dta("consolidated.dta")  
  
library(haven)  
individuals\_5 <- read\_dta("individuals 5.dta")  
  
library(haven)  
migrants\_2 <- read\_dta("migrants 2.dta")  
  
library(haven)  
non\_hh\_member\_migrants\_2 <- read\_dta("non hh member migrants 2.dta")

## Checking variables names

names(consolidated)

## [1] "record" "hhno"   
## [3] "batch" "no"   
## [5] "state" "lg"   
## [7] "censusunit" "hhtype"   
## [9] "villagetown" "ur"   
## [11] "noinhh" "respondentid"   
## [13] "refused" "tenurestatus"   
## [15] "typeofdwelling" "constructionmaterial"   
## [17] "separatekitchen" "noofseparaterooms"   
## [19] "electricity" "drinkingwatersource"   
## [21] "agricland" "nonagricland"   
## [23] "house" "otherbuildings"   
## [25] "bed" "radio"   
## [27] "tv" "fridge"   
## [29] "airconditioner" "soundsystem"   
## [31] "vcrdvd" "computer"   
## [33] "mobilephone" "nonmobilephone"   
## [35] "bicycle" "oxdrawncart"   
## [37] "cartruck" "motorcycle"   
## [39] "tractorharvester" "food"   
## [41] "meat" "cookigfuel"   
## [43] "trasport" "other"   
## [45] "clothigfootwear" "appliaces"   
## [47] "carmotorcycle" "mobilephoeacquisitio"   
## [49] "mobilephoeservices" "computerexp"   
## [51] "otherelectroics" "productiveassetsegsewigmachie"  
## [53] "farmigequipmt" "jewelryadluxurycars"   
## [55] "rent" "utilities"   
## [57] "educatioappreticeship" "health"   
## [59] "weddigsetc" "busiesssetup"   
## [61] "houseladpurchase" "homeimprovemts"   
## [63] "mortgageloanrepayment" "others"   
## [65] "region" "noinhhg"

names(individuals\_5)

## [1] "record" "hhno" "personid"   
## [4] "state" "lg" "censusunit"   
## [7] "hhtype" "weights" "town"   
## [10] "urbanrural" "rshiptohhh" "sex"   
## [13] "age" "maritalstatus" "placeofbirth"   
## [16] "religion" "ethnicity" "highestschooling"   
## [19] "schoolingyears" "highestdip" "curwrksit"   
## [22] "currentocc" "withbankacc" "howlong"   
## [25] "purpose" "aftermigrant" "atmdebitcard"   
## [28] "mobiletransact" "returnmigrant" "where"   
## [31] "whenmove" "whenreturn" "reasonformigration"   
## [34] "reasonforplace" "schoolinplace" "highestschoolplace"   
## [37] "highestdiplomaplace" "lastworksituation" "lastoccupation"   
## [40] "whyreturn" "sendmoney" "howsendmoney"   
## [43] "forpurpose" "sendmoneyforexpense" "sendgoods"   
## [46] "food" "education" "health"   
## [49] "rent" "marriagefuneral" "carstrucks"   
## [52] "rebuildhouse" "newhouse" "business"   
## [55] "landpurchase" "other" "refridgerators"   
## [58] "tv" "hifisystem" "washingmachine"   
## [61] "furniture" "stovecooker" "microwave"   
## [64] "airconditioners" "computer" "vcddvd"   
## [67] "motorbike" "cars" "buses"   
## [70] "trucks" "cornmill" "hairdressing"   
## [73] "sewingmachine" "tractor" "otheragric"   
## [76] "mobilephones" "migrantgroup" "foodremit"   
## [79] "educationremit" "healthremit" "rentremit"   
## [82] "V82" "carsremit" "V84"   
## [85] "buildhouse" "V86" "V87"   
## [88] "otherremit" "region" "educationgroup"   
## [91] "agegroup" "V92" "educyears"

names(migrants\_2)

## [1] "record" "HHNo"   
## [3] "MigrantID" "CensusUnit"   
## [5] "HHType" "Town"   
## [7] "Urbanrural" "Sex"   
## [9] "Age" "RshiptoHHH"   
## [11] "Birthplace" "Reasonforleaving"   
## [13] "Migrantin" "Howlong"   
## [15] "Maritalstatus" "Liveswith"   
## [17] "Highestschoolbeforeleaving" "Schoolyrsbeforeleaving"   
## [19] "Highestdipbeforeleaving" "Worksitbeforeleaving"   
## [21] "Currentworksit" "Currentocc"   
## [23] "Sendmoney" "How"   
## [25] "Howmanytimes" "Howmuch"   
## [27] "Sendfoodgoods" "Foodgoodsvalue"   
## [29] "Food" "Education"   
## [31] "Health" "Rent"   
## [33] "Marriagefuneral" "Carstrucks"   
## [35] "Rebuildhouse" "Newhouse"   
## [37] "Business" "Landpurchase"   
## [39] "Other" "Refridgerators"   
## [41] "Tv" "HiFiSystem"   
## [43] "Washingmachine" "Furniture"   
## [45] "Stovecooker" "Microwave"   
## [47] "Airconditioners" "Computer"   
## [49] "vcddvd" "Motorbike"   
## [51] "Cars" "Buses"   
## [53] "Trucks" "Cornmill"   
## [55] "Hairdressing" "Sewingmachine"   
## [57] "Tractor" "Otheragric"   
## [59] "Mobilephones" "Other2"   
## [61] "setupbiz" "builddwelling"   
## [63] "migrantgroup" "intmigrants"   
## [65] "agegroup" "state"   
## [67] "region" "V68"   
## [69] "V69" "V70"   
## [71] "V71" "V72"   
## [73] "cartrucks" "V74"   
## [75] "V75" "V76"   
## [77] "V77" "V78"   
## [79] "educationgroup" "V80"   
## [81] "remitfreq" "remitgroup"

names(non\_hh\_member\_migrants\_2)

## [1] "record" "HHNo" "MigrantID"   
## [4] "Censusunit" "HHType" "Town"   
## [7] "Urbanrural" "Receivedmoney" "Where"   
## [10] "RshiptoHH" "Sex" "Highestschooling"   
## [13] "Sendmoney" "How" "Howmanytimes"   
## [16] "Howmuch" "Foodgoods" "Valueofgoods"   
## [19] "Food" "Education" "Health"   
## [22] "Rent" "Marriage" "Cars"   
## [25] "Rebuildhouse" "Buildhouse" "Business"   
## [28] "Landpurchase" "Others" "variableidentifier"

## Getting new file by combining the consolidated and individuals

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

newdata <- left\_join(consolidated, individuals\_5, by = "record")  
newdata

## # A tibble: 2,251 x 158  
## record hhno.x batch no state.x lg.x censusunit.x hhtype.x villagetown  
## <dbl> <dbl> <dbl> <dbl> <chr> <chr> <chr> <dbl+lb> <chr>   
## 1 6406 12 5 12 Akwa Ibom Uyo Afaha Offot 1 [Non ~ Afaha Offot  
## 2 10430 3 3 3 NIGER CHANC~ Kissi II 2 [Inte~ Kissi II   
## 3 3988 13 6 13 Lagos Ajero~ Immam 2 [Inte~ Immam   
## 4 11583 1 3 1 OYO SOUTH~ Chief Eniray~ 3 [Inte~ Chief Enir~  
## 5 10531 20 3 20 NIGER CHANC~ Kissi II 1 [Non ~ Kissi II   
## 6 971 20 2 20 Edo Esan ~ Uromi 1 [Non ~ Uromi   
## 7 11637 9 3 9 OYO SOUTH~ Chief Eniray~ 1 [Non ~ Chief Enir~  
## 8 10935 1 2 1 ONDO AKOKO~ EPINMI 1 [Non ~ EPINMI   
## 9 6614 22 6 22 Akwa Ibom Uyo Effiat Offot 3 [Inte~ Effiat Off~  
## 10 11259 7 6 7 ONDO AKURE~ His Mercy Pl~ 3 [Inte~ His Mercy ~  
## # ... with 2,241 more rows, and 149 more variables: ur <dbl+lbl>, noinhh <dbl>,  
## # respondentid <dbl>, refused <dbl>, tenurestatus <dbl+lbl>,  
## # typeofdwelling <dbl+lbl>, constructionmaterial <dbl+lbl>,  
## # separatekitchen <dbl+lbl>, noofseparaterooms <dbl>, electricity <dbl+lbl>,  
## # drinkingwatersource <dbl+lbl>, agricland <dbl+lbl>, nonagricland <dbl+lbl>,  
## # house <dbl+lbl>, otherbuildings <dbl+lbl>, bed <dbl+lbl>, radio <dbl+lbl>,  
## # tv.x <dbl+lbl>, fridge <dbl+lbl>, airconditioner <dbl+lbl>, ...

## Selection of only needed variables

newdata1 <- newdata %>% select('record', 'ur',"religion", "maritalstatus", "age", "highestschooling", "food.x", "cookigfuel", 'clothigfootwear')  
newdata1

## # A tibble: 2,251 x 9  
## record ur religion maritalstatus age highestschooling food.x  
## <dbl> <dbl+lbl> <dbl+lbl> <dbl+lbl> <dbl> <dbl+lbl> <dbl>  
## 1 6406 1 [Urban] 4 [Pentec~ 1 [Married] 40 6 [Tertiary/Universi~ 22000  
## 2 10430 1 [Urban] 1 [Islam] 7 [Single/Nev~ 24 6 [Tertiary/Universi~ 2000  
## 3 3988 1 [Urban] 3 [Protes~ 1 [Married] 31 4 [Secondary School] 6000  
## 4 11583 1 [Urban] 1 [Islam] 1 [Married] 55 4 [Secondary School] 5200  
## 5 10531 1 [Urban] 3 [Protes~ 1 [Married] 47 6 [Tertiary/Universi~ 5000  
## 6 971 1 [Urban] 5 [Tradit~ 6 [Widowed] 70 3 [Primary School] 5000  
## 7 11637 1 [Urban] 1 [Islam] 1 [Married] 50 4 [Secondary School] 3800  
## 8 10935 1 [Urban] 4 [Pentec~ 5 [Divorced] 56 7 [Post-secondary Te~ 6400  
## 9 6614 1 [Urban] 6 [Other] 6 [Widowed] 45 4 [Secondary School] 5000  
## 10 11259 1 [Urban] 1 [Islam] 1 [Married] 52 6 [Tertiary/Universi~ 4000  
## # ... with 2,241 more rows, and 2 more variables: cookigfuel <dbl>,  
## # clothigfootwear <dbl>

## Calculating of mean

newdata1$food.x <- as.numeric(as.double(newdata1$food.x))  
  
mean(newdata1$food.x, na.rm=TRUE)

## [1] 6359.121

## Joining newdata1 with migrant

newdata2 <- left\_join(newdata1, migrants\_2, by = "record")  
newdata2

## # A tibble: 2,251 x 90  
## record ur religion maritalstatus age highestschooling food.x  
## <dbl> <dbl+lbl> <dbl+lbl> <dbl+lbl> <dbl> <dbl+lbl> <dbl>  
## 1 6406 1 [Urban] 4 [Pentec~ 1 [Married] 40 6 [Tertiary/Universi~ 22000  
## 2 10430 1 [Urban] 1 [Islam] 7 [Single/Nev~ 24 6 [Tertiary/Universi~ 2000  
## 3 3988 1 [Urban] 3 [Protes~ 1 [Married] 31 4 [Secondary School] 6000  
## 4 11583 1 [Urban] 1 [Islam] 1 [Married] 55 4 [Secondary School] 5200  
## 5 10531 1 [Urban] 3 [Protes~ 1 [Married] 47 6 [Tertiary/Universi~ 5000  
## 6 971 1 [Urban] 5 [Tradit~ 6 [Widowed] 70 3 [Primary School] 5000  
## 7 11637 1 [Urban] 1 [Islam] 1 [Married] 50 4 [Secondary School] 3800  
## 8 10935 1 [Urban] 4 [Pentec~ 5 [Divorced] 56 7 [Post-secondary Te~ 6400  
## 9 6614 1 [Urban] 6 [Other] 6 [Widowed] 45 4 [Secondary School] 5000  
## 10 11259 1 [Urban] 1 [Islam] 1 [Married] 52 6 [Tertiary/Universi~ 4000  
## # ... with 2,241 more rows, and 83 more variables: cookigfuel <dbl>,  
## # clothigfootwear <dbl>, HHNo <dbl>, MigrantID <dbl>, CensusUnit <chr>,  
## # HHType <dbl+lbl>, Town <chr>, Urbanrural <dbl+lbl>, Sex <dbl+lbl>,  
## # Age <dbl>, RshiptoHHH <dbl+lbl>, Birthplace <dbl+lbl>,  
## # Reasonforleaving <dbl+lbl>, Migrantin <dbl+lbl>, Howlong <dbl+lbl>,  
## # Maritalstatus <dbl+lbl>, Liveswith <dbl+lbl>,  
## # Highestschoolbeforeleaving <dbl+lbl>, Schoolyrsbeforeleaving <dbl>, ...

## adding new column in the data

#note: In dplyr: select is used to extract variables filter is used to extract rows mutate is used to create new column/variable

newdata3 <- newdata2 <- left\_join(newdata1, migrants\_2, by = "record") %>%   
 filter(ur==2) %>%   
 mutate(expendit = food.x + cookigfuel + clothigfootwear)  
newdata3$expendit

## [1] 30800 7200 9300 19740 9000 NA 27000 NA 35500 5750  
## [11] 15200 27000 3050 NA 48000 24500 42500 NA 4200 NA  
## [21] 6600 13840 13580 17400 9300 NA 9520 14760 7000 13800  
## [31] 17000 33250 15600 37600 13240 23250 NA NA NA 29360  
## [41] 11960 11500 5400 12140 5900 8800 85600 8000 14500 38300  
## [51] 25400 77000 20500 14100 5500 NA 20200 80500 15520 NA  
## [61] 3500 NA NA 40000 10000 NA 55500 NA 9700 14200  
## [71] 81000 NA 11950 20700 8550 107000 13700 NA 18300 NA  
## [81] 28700 NA 28500 NA 29800 NA 30560 42200 24700 18000  
## [91] NA 54100 45800 14020 NA 31200 23000 NA NA 17000  
## [101] NA 15800 54900 NA NA 23000 14500 NA 36300 NA  
## [111] 31120 22300 NA 8500 31200 3180 16360 61000 12800 24000  
## [121] 7850 12180 21200 12500 56500 5000 17000 22300 NA 11000  
## [131] 5620 13400 13570 32480 45000 16000 52000 4700 23000 NA  
## [141] 15500 NA 6520 13800 NA 50800 NA NA 50000 14500  
## [151] 19500 NA NA 46700 10000 24000 3800 77500 10500 39000  
## [161] 10000 NA 6760 NA NA 9600 NA 9700 26500 20500  
## [171] 9100 NA NA 23500 6140 35200 19000 NA NA NA  
## [181] NA 97750 NA NA 10600 12700 86000 NA 11400 29250  
## [191] NA NA NA NA NA 39600 28600 34500 NA 20800  
## [201] NA NA 44600 45500 4350 13000 15600 28750 10450 16000  
## [211] 113020 30300 14500 9600 6420 25000 NA 4250 8500 11300  
## [221] NA 66100 NA 18750 31500 33500 13600 75200 NA 37500  
## [231] NA 6000 NA 3350 12700 45500 1020 11200 4150 61470  
## [241] NA 27000 6100 5400 NA NA 4900 8700 26000 14000  
## [251] 54000 36200 15000 27000 14620 1520 NA NA 24500 13980  
## [261] 18000 13290 25000 54700 13500 13520 NA 62300 11000 17020  
## [271] 23700 18260 34500 67400 166500 8240 NA 4000 NA 11850  
## [281] 25700 11650 9900 10000 9800 NA 3470 9900 14500 71800  
## [291] 20730 161700 27500 45000 17190 11500 NA 19000 4340 5300  
## [301] NA NA NA 23900 11750 8700 6450 15350 7600 31000  
## [311] 5500 7300 14740 146000 NA 12300 NA 12100 15000 6450  
## [321] 11950 8300 9500 83500 56000 21500 62000 NA NA 4220  
## [331] 8200 NA 25700 NA 14500 17500 22000 18500 9260 45400  
## [341] 25500 50500 10750 40230 NA NA 12900 41000 11200 NA  
## [351] 9522 31000 NA 6800 15000 7400 25900 20250 30400 NA  
## [361] 8500 15000 64700 NA 20600 NA 46000 31500 28500 19200  
## [371] 10840 32000 17100 41000 NA 4900 44000 19500 21020 5200  
## [381] 12450 32200 6500 6500 33400 33700 15500 19100 NA 5860  
## [391] 12210 18300 19800 NA 16000 7640 41250 14350 6800 NA  
## [401] 10700 NA 50000 12500 11500 6600 36000 NA NA 8750  
## [411] NA 11600 12730 7100 NA 183000 74000 NA NA NA  
## [421] NA 7900 5000 5500 16560 30500 9255 NA NA 23400  
## [431] 31000 22300 16700 NA NA 22800 8480 NA 21000 NA  
## [441] NA 25000 19000 66800 108800 10300 NA 10962 15500 13000  
## [451] NA NA 11800 24500 76500 20800 47000 16600 55500 20700  
## [461] 9600 5500 14600 NA NA 15970 56925 NA NA NA  
## [471] NA 11500 14460 8600 8780 5620 8500 5050 12900 49000  
## [481] 12200 10300 NA 2250 10500 49750 35350 9260 17800 21400  
## [491] NA 14550 16200 10070 45500 NA 13900 13700 24000 11700  
## [501] 26000 94500 17000 13900 NA 16600 7960 85000 7900 NA  
## [511] 62500 37500 56950 NA 11000 41500 2020 NA 31000 12025  
## [521] 7500 NA NA 19250 41000 NA NA NA NA 8800  
## [531] 18000 8900 13000 35700 21100 44500 31500 5300 NA 54700  
## [541] 6200 12260 10500 60200 NA 110500 NA 31400 6300 38500  
## [551] 14500 NA NA 4600 4860 11300 NA 33500 3200 29800  
## [561] 18780 20950 60000 NA 49600 NA 15000 20260 5650 NA  
## [571] 8800 6150 NA NA 18400 37700 19300 17520 13000 8800  
## [581] 17600 13700 25500 15000 6000 3100 31000 8350 17800 13550  
## [591] 9690 NA 30200 17700 35540 NA 34700 11700 10600 12800  
## [601] 40800 6400 67900 NA NA 49850 15500 41250 NA 8100  
## [611] NA NA 9000 8500 15380 12300 20400 15450 NA 14000  
## [621] 59000 NA NA 6400 10500 13000 12240 14400 12360 NA  
## [631] NA 20600 10820 NA 9200 25550 31500 16500 33600 52000  
## [641] NA NA NA 64000 12800 25600 10800 26200 NA 11900  
## [651] 106600 20300 19880 18520 81200 8780 NA NA 10850 8692  
## [661] NA NA 5700 NA 35000 46700 NA NA 19500 NA  
## [671] NA 18000 NA 12050 21000 39980 21000 8370 43500 NA  
## [681] 16000 5720 6500 17000 NA 19500 NA 25500 35700 28500  
## [691] NA NA 31840 23500 15000 NA 28950 13300 17500 40500  
## [701] 11230 24000 NA NA 11700 NA 7100 NA 13600 7300  
## [711] NA 10900 NA NA 8100 118000 NA 23000 NA 11600  
## [721] 72000 NA NA 23250 NA 23800 31000 22480 18710 30200  
## [731] NA NA 30000 8800 17200 NA 50000 17000 12700 3640  
## [741] 19200 12200 10100 13860 28300 7180 56500 12450 29550 11240  
## [751] 10800 9500 17300 14700 12500 23250 38400 NA 6500 16800  
## [761] NA 87000 60000 NA 13500 8720 NA 13000 75000 11800  
## [771] 35500 57200 12480 36000 NA 38600 5700 18800 12000 6900  
## [781] NA 54750 10300 9500 11000 17000 8250 9410 NA 11880  
## [791] 12500 NA 10462 22000 16120 7400 16020 NA 18000 13300  
## [801] 23000 8800 33500 7200 NA 13450 NA NA NA 28000  
## [811] NA 13400 NA NA 17360 33000 42000 8150 6250 33500  
## [821] NA 9050 NA NA 72200 9520 45000 18600 NA 53500  
## [831] 4800 10370 NA 4550 44900 7600 NA 23000 7000 9300  
## [841] NA 104800 9600 NA NA 7600 NA 54800 14200 NA  
## [851] NA 12900 18100 21500 26520 35500 26000 15500 NA 16500  
## [861] 8140 10000 NA NA 13260 27000 13970 32520 21000 16000  
## [871] 127000 15300 33000 18500 NA 14400 23600 12200 8820 28300  
## [881] 37000 20000 15000 17000 11300 20550 91000 68000 NA 12800  
## [891] 8300 19400 17200 9000 NA 58500 27250 9500 NA 5300  
## [901] 10800 19800 32500 7800 27000 6400 NA NA 12000 NA  
## [911] 18500 20750 7800 48100 14600 NA 7220 NA 14500 33000  
## [921] 32700 56000 5500 14480 18400 NA 6500 8200 NA 20400  
## [931] 3600 6250 20250 28000 NA 23800 78000 19150 5700 16700  
## [941] NA NA 18000 NA 16000 66000 NA 14240 NA 8200  
## [951] NA 11200 4700 NA NA 35700 6000 26500 NA 31300  
## [961] 16340 NA 15600 25000 76200 17600 12700 17200 11300 NA  
## [971] 18600 NA 9000 10600 9500 7600 NA NA 9000 NA  
## [981] 8200 7700 31000 NA NA NA 26000 7220 40500 6200  
## [991] 43500 11320 13000 NA 9000 NA NA 7200 NA 7250  
## [1001] NA NA 13500 16000 NA NA 78000 15000 19000 21300  
## [1011] 28000 16700 11100 7200 8000 10240 67100 5240 NA 6350  
## [1021] 14600 32500 15400 NA 13250 NA NA 18020 19000 NA  
## [1031] 30600 20002 3600 22500 NA 14100 44250 14800 17200 NA  
## [1041] 13000 16400 102000 22600 13000 10000 5200 29900 NA 123250  
## [1051] 8670 NA 16500 32000 78000 33750 17800 NA 34200 24300  
## [1061] 22800 78000 16000 NA 7100 NA 60000 16240 NA 7400  
## [1071] NA 10100 36500 17600 5900 36000 8200 NA NA 11250  
## [1081] NA NA 51000 48520 36352 18500 13500 17000 NA NA  
## [1091] 15000 5600 NA 6000 24800 41500 24700 35000 12500 19300  
## [1101] 29500 24120 8200 13700 40460 34000 2830 7500 3500 NA  
## [1111] 17000 116500 18100 4500 5740 28500 NA 42600 16000 NA  
## [1121] 19000 2600 9800 NA 8400 19150 41000 89620 18900 14200  
## [1131] 14000 NA 11000 105000 14500 9750 NA 15000 NA 23500  
## [1141] 13200 36000 4200 11000 10700 NA 8500 39000 13500 NA  
## [1151] 11200 NA NA 114000 NA NA 19000 8100 6540 23000  
## [1161] NA 9360 10100 16000  
## attr(,"label")  
## [1] "Expenditure on cooking fuels in past 1 week"  
## attr(,"format.stata")  
## [1] "%12.0g"

## Regression Analysis

Note: when computing effect with two level (yes,no) use binomial i.e gm  
 otherwise use lm (linear regression)

regression1 <- lm(expendit ~ factor(religion)+ factor(maritalstatus), data=newdata3)  
summary(regression1)

##   
## Call:  
## lm(formula = expendit ~ factor(religion) + factor(maritalstatus),   
## data = newdata3)  
##   
## Residuals:  
## Min 1Q Median 3Q Max   
## -40771 -11841 -5812 5218 163218   
##   
## Coefficients:  
## Estimate Std. Error t value Pr(>|t|)   
## (Intercept) 19782 1215 16.280 < 2e-16 \*\*\*  
## factor(religion)2 1896 2067 0.918 0.3591   
## factor(religion)3 16863 2330 7.238 1.02e-12 \*\*\*  
## factor(religion)4 4370 2020 2.164 0.0308 \*   
## factor(religion)5 -1119 4109 -0.272 0.7854   
## factor(religion)6 24001 5394 4.450 9.73e-06 \*\*\*  
## factor(maritalstatus)2 -10282 12632 -0.814 0.4159   
## factor(maritalstatus)4 4188 5988 0.699 0.4845   
## factor(maritalstatus)5 8780 8292 1.059 0.2900   
## factor(maritalstatus)6 -5282 2706 -1.952 0.0512 .   
## factor(maritalstatus)7 6036 6131 0.984 0.3252   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Residual standard error: 21760 on 852 degrees of freedom  
## (301 observations deleted due to missingness)  
## Multiple R-squared: 0.08416, Adjusted R-squared: 0.07341   
## F-statistic: 7.83 on 10 and 852 DF, p-value: 4.246e-12

## Interpretation of the Regression result

y=a+bx+c

The result make reference to one of the religion 1(Islam). Showing that religion2 is earning 1896 + 19782, religion3 earned 16863 more of religion1.

Conclusion Religion 3 and 4 are statistically significant from the other religions i.e they spent more.