CAnD3 RRWM

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```
#Read in downloaded data
d1 <- read.csv("C:\\Users\\Galiba\\Desktop\\gss-12M0025-E-2017-c-31_F1.csv")
#Check variable names and summaries of variable
names(d1)
```

```
##    [1] "PUMFID"   "WGHT_PER" "AGEC"     "AGEDC"    "AGEGR5"   "AGEGR10"
##    [7] "SEX"      "MARSTAT"  "SEXPR"    "PRTYPEC"  "CHRTIME6" "CHRINHDC"
##   [13] "CHH0014C" "LIVARR12" "HSDSIZEC" "MULTIGEN" "FAMTYPE"  "PRV"
##   [19] "REGION"   "LUC_RST"  "GU_110"   "GU_120"   "GU_130C"  "GU_150C"
##   [25] "GU_170"   "GU_180"   "GU_190"   "GU_210"   "APARSEPC" "APARDIVC"
##   [31] "MTHERLIV" "AMDIEDC"  "AMOTHC"   "LAM_50"   "BRTHMCAN" "FTHERLIV"
##   [37] "AFDIEDC"  "AFATHC"   "LAF_50"   "BRTHFCAN" "GPARLIV"  "GPR_110A"
##   [43] "GPR_110B" "GPR_110C" "GPR_110D" "NLFTHOMC" "ALHOMFC"  "REALFTFA"
##   [49] "REALFTFB" "REALFTFC" "REALFTFD" "REALFTFE" "REALFTFF" "REALFTFG"
##   [55] "REALFTFO" "ARTHOMFC" "REARETFA" "REARETFB" "REARETFC" "REARETFD"
##   [61] "REARETFE" "REARETFF" "REARETFG" "REARETFH" "REARETFI" "REARETFJ"
##   [67] "REARETFO" "ALFHOMLC" "REALFTLA" "REALFTLB" "REALFTLC" "REALFTLD"
##   [73] "REALFTLE" "REALFTLF" "REALFTLG" "REALFTLO" "ARTHOMLC" "REARETLA"
##   [79] "REARETLB" "REARETLC" "REARETLD" "REARETLE" "REARETLF" "REARETLG"
##   [85] "REARETLH" "REARETLI" "REARETLJ" "LHN_110"  "REARETLO" "LHH_110"
##   [91] "TOTUNC"   "NMAREVRC" "TOTCLWC"  "NSEPEVR"  "LEGMARST" "EVERMAR"
##   [97] "EVERCL"   "MA0RNKC"  "ASEPMA0C" "AGEMA0C"  "MA0_120"  "APRMA0C"
##  [103] "ADFGRMA0" "MA0_133"  "MA0_139"  "MA0_150"  "ACLMA0C"  "MA0_220"
##  [109] "MA1RNKC"  "AGEMA1C"  "APRMA1C"  "MA1_150"  "ACLMA1C"  "MA1_165"
##  [115] "MA1_170"  "ASEPMA1C" "ADIVMA1C" "ADTHMA1C" "MA1_220"  "MA1_230"
##  [121] "MA2RNKC"  "AGEMA2C"  "APRMA2C"  "MA2_150"  "ACLMA2C"  "MA2_165"
##  [127] "MA2_170C" "ASEPMA2C" "ADIVMA2C" "ADTHMA2C" "MA2_220"  "MA2_230"
##  [133] "MA3RNKC"  "AGEMA3C"  "APRMA3C"  "MA3_150"  "MA3_165"  "MA3_170C"
##  [139] "ASEPMA3C" "ADIVMA3C" "PR_CL"    "CU0RNKC"  "CU0_107"  "ACU0C"
##  [145] "CU0_120"  "APRCU0C"  "ADFGRCU0" "CU0_132"  "CU0_133"  "CU0_139"
##  [151] "CU0_220"  "CU1RNKC"  "ACU1C"    "APRCU1C"  "CU1_170"  "ASEPCU1C"
##  [157] "ADTHCU1C" "CU1_190"  "CU1_230"  "CU2RNKC"  "ACU2C"    "APRCU2C"
##  [163] "CU2_170"  "ASEPCU2C" "CU2_190"  "CU2_230"  "CU3RNKC"  "ACU3C"
##  [169] "APRCU3C"  "ASEPCU3C" "CU3_190"  "LAT_120"  "ALATC"    "LAT_123A"
##  [175] "LAT_140"  "LAT_141"  "RSH_125A" "RSH_125B" "RSH_131A" "RSH_131B"
##  [181] "RSH_133"  "MAC_110"  "WEVERMAR" "MIC_120"  "MCI_150"  "CLI_160"
##  [187] "CUI_150"  "COR_015"  "COR_020"  "COR_031"  "COR_041"  "TOTCHDC"
##  [193] "RCI10_1"  "RCI10_2"  "RCI10_3"  "RCI10_4"  "RCI10_5"  "RCI10_6"
##  [199] "RCI10_7"  "ACHD_1C"  "ACHD_2C"  "ACHD_3C"  "ACHD_4C"  "ACHD_5C"
##  [205] "ACHD_6C"  "ACHD_7C"  "ACHB1C"   "ACHB2C"   "ACHB3C"   "ACHB4C"
##  [211] "ACHB5C"   "ACHB6C"   "ACHB7C"   "PRTCH1C"  "PRTCH2C"  "PRTCH3C"
##  [217] "PRTCH4C"  "PRTCH5C"  "PRTCH6C"  "PRTCH7C"  "RCI30_1"  "RCI30_2"
##  [223] "RCI30_3"  "RCI30_4"  "RCI30_5"  "RCI30_6"  "RCI30_7"  "ACHJ1C"
##  [229] "ACHJ2C"   "ACHJ3C"   "ACHJ4C"   "ACHJ5C"   "ACHJ6C"   "ACHJ7C"
##  [235] "CHDINFTC" "CHDINPTC" "CHDOUTC"  "CHDDECC"  "HHDCHD1"  "HHDCHD2"
##  [241] "HHDCHD3"  "HHDCHD4"  "HHDCHD5"  "HHDCHD6"  "HHDCHD7"  "HHDSTA1"
##  [247] "HHDSTA2"  "HHDSTA3"  "HHDSTA4"  "HHDSTA5"  "HHDSTA6"  "HHDSTA7"
##  [253] "RCI65_1"  "RCI65_2"  "RCI65_3"  "RCI65_4"  "RCI65_5"  "RCI65_6"
##  [259] "RCI65_7"  "RCI701C"  "RCI702C"  "RCI703C"  "RCI704C"  "RCI705C"
##  [265] "RCI706C"  "RCI707C"  "SCO101C"  "SCO102C"  "SCO103C"  "SCO104C"
##  [271] "SCO105C"  "SCO106C"  "SCO107C"  "SCO20_1"  "SCO20_2"  "SCO20_3"
##  [277] "SCO20_4"  "SCO20_5"  "SCO20_6"  "SCO20_7"  "SCO30_1"  "SCO30_2"
##  [283] "SCO30_3"  "SCO30_4"  "SCO30_5"  "SCO30_6"  "SCO30_7"  "TOTCCAR"
##  [289] "TOTCCPS"  "TOTCCSA"  "CC_10_1"  "CC_10_2"  "CC_10_3"  "CC_10_4"
##  [295] "CC_10_5"  "CC_10_6"  "CC_10_7"  "CC_20_1"  "CC_20_2"  "CC_20_3"
##  [301] "CC_20_4"  "CC_20_5"  "CC_20_6"  "CC_20_7"  "CC_30_1"  "CC_30_2"
##  [307] "CC_30_3"  "CC_30_4"  "CC_30_5"  "CC_30_6"  "CC_30_7"  "CC_40_1"
```

```
##  [313] "CC_40_2"  "CC_40_3"  "CC_40_4"  "CC_40_5"  "CC_40_6"  "CC_40_7"
##  [319] "CC_50_1"  "CC_50_2"  "CC_50_3"  "CC_50_4"  "CC_50_5"  "CC_50_6"
##  [325] "CC_50_7"  "CC_60_1"  "CC_60_2"  "CC_60_3"  "CC_60_4"  "CC_60_5"
##  [331] "CC_60_6"  "CC_60_7"  "CCA50_1"  "CCA50_2"  "CCA50_3"  "CCA50_4"
##  [337] "CCA50_5"  "CCA50_6"  "CCA50_7"  "CCA551C"  "CCA552C"  "CCA553C"
##  [343] "CCA554C"  "CCA555C"  "CCA556C"  "CCA557C"  "CCA651C"  "CCA652C"
##  [349] "CCA653C"  "CCA654C"  "CCA655C"  "CCA656C"  "CCA657C"  "CCA70_1"
##  [355] "CCA70_2"  "CCA70_3"  "CCA70_4"  "CCA70_5"  "CCA70_6"  "CCA70_7"
##  [361] "CCDYC1C"  "CCDYC2C"  "CCDYC3C"  "CCDYC4C"  "CCDYC5C"  "CCDYC6C"
##  [367] "CCDYC7C"  "CCWKC1C"  "CCWKC2C"  "CCWKC3C"  "CCWKC4C"  "CCWKC5C"
##  [373] "CCWKC6C"  "CCWKC7C"  "CCW2C1C"  "CCW2C2C"  "CCW2C3C"  "CCW2C4C"
##  [379] "CCW2C5C"  "CCW2C6C"  "CCW2C7C"  "CCMOC1C"  "CCMOC2C"  "CCMOC3C"
##  [385] "CCMOC4C"  "CCMOC5C"  "CCMOC6C"  "CCMOC7C"  "CP_10_1"  "CP_10_2"
##  [391] "CP_10_3"  "CP_10_4"  "CP_10_5"  "CP_10_6"  "CP_10_7"  "CP_20_1"
##  [397] "CP_20_2"  "CP_20_3"  "CP_20_4"  "CP_20_5"  "CP_20_6"  "CP_20_7"
##  [403] "CP30_1C"  "CP30_2C"  "CP30_3C"  "CP30_4C"  "CP30_5C"  "CP30_6C"
##  [409] "CP30_7C"  "NUC1_1C"  "NUC1_2C"  "NUC1_3C"  "NUC1_4C"  "NUC1_5C"
##  [415] "NUC1_6C"  "NUC1_7C"  "NUC2_1C"  "NUC2_2C"  "NUC2_3C"  "NUC2_4C"
##  [421] "NUC2_5C"  "NUC2_6C"  "NUC2_7C"  "ARHCL1C"  "ARHCL2C"  "ARHCL3C"
##  [427] "ARHCL4C"  "ARHCL5C"  "ARHCL6C"  "ARHCL7C"  "ARNCL1C"  "ARNCL2C"
##  [433] "ARNCL3C"  "ARNCL4C"  "ARNCL5C"  "ARNCL6C"  "ARNCL7C"  "ADIELH1"
##  [439] "ADIELH2"  "ADIELH3"  "ADIELH4"  "ADIELH5"  "ADIELH6"  "ADIELH7"
##  [445] "REHCLA1"  "REHCLB1"  "REHCLC1"  "REHCLE1"  "REHCLF1"  "REHCLG1"
##  [451] "REHCLH1"  "REHCLI1"  "REHCLJ1"  "REHCLA2"  "REHCLB2"  "REHCLC2"
##  [457] "REHCLE2"  "REHCLF2"  "REHCLG2"  "REHCLH2"  "REHCLI2"  "REHCLJ2"
##  [463] "REHCLA3"  "REHCLB3"  "REHCLC3"  "REHCLE3"  "REHCLF3"  "REHCLG3"
##  [469] "REHCLH3"  "REHCLI3"  "REHCLJ3"  "REHCLA4"  "REHCLB4"  "REHCLC4"
##  [475] "REHCLE4"  "REHCLF4"  "REHCLG4"  "REHCLH4"  "REHCLI4"  "REHCLJ4"
##  [481] "REHCLA5"  "REHCLB5"  "REHCLC5"  "REHCLE5"  "REHCLF5"  "REHCLG5"
##  [487] "REHCLH5"  "REHCLI5"  "REHCLJ5"  "REHCLA6"  "REHCLB6"  "REHCLC6"
##  [493] "REHCLE6"  "REHCLF6"  "REHCLG6"  "REHCLH6"  "REHCLI6"  "REHCLJ6"
##  [499] "REHCLA7"  "REHCLB7"  "REHCLC7"  "REHCLE7"  "REHCLF7"  "REHCLG7"
##  [505] "REHCLH7"  "REHCLI7"  "REHCLJ7"  "RENCLA1"  "RENCLB1"  "RENCLC1"
##  [511] "RENCLD1"  "RENCLE1"  "RENCLF1"  "RENCLG1"  "RENCLH1"  "RENCLI1"
##  [517] "RENCLJ1"  "RENCLA2"  "RENCLB2"  "RENCLC2"  "RENCLD2"  "RENCLE2"
##  [523] "RENCLF2"  "RENCLG2"  "RENCLH2"  "RENCLI2"  "RENCLJ2"  "RENCLA3"
##  [529] "RENCLB3"  "RENCLC3"  "RENCLD3"  "RENCLE3"  "RENCLF3"  "RENCLG3"
##  [535] "RENCLH3"  "RENCLI3"  "RENCLJ3"  "RENCLA4"  "RENCLB4"  "RENCLC4"
##  [541] "RENCLD4"  "RENCLE4"  "RENCLF4"  "RENCLG4"  "RENCLH4"  "RENCLI4"
##  [547] "RENCLJ4"  "RENCLA5"  "RENCLB5"  "RENCLC5"  "RENCLD5"  "RENCLE5"
##  [553] "RENCLF5"  "RENCLG5"  "RENCLH5"  "RENCLI5"  "RENCLJ5"  "RENCLA6"
##  [559] "RENCLB6"  "RENCLC6"  "RENCLD6"  "RENCLE6"  "RENCLF6"  "RENCLG6"
##  [565] "RENCLH6"  "RENCLI6"  "RENCLJ6"  "RENCLA7"  "RENCLB7"  "RENCLC7"
##  [571] "RENCLD7"  "RENCLE7"  "RENCLF7"  "RENCLG7"  "RENCLH7"  "RENCLI7"
##  [577] "RENCLJ7"  "REDCLA1"  "REDCLB1"  "REDCLC1"  "REDCLG1"  "REDCLA2"
##  [583] "REDCLB2"  "REDCLC2"  "REDCLG2"  "REDCLA3"  "REDCLB3"  "REDCLC3"
##  [589] "REDCLG3"  "REDCLA4"  "REDCLB4"  "REDCLC4"  "REDCLG4"  "REDCLA5"
##  [595] "REDCLB5"  "REDCLC5"  "REDCLG5"  "REDCLA6"  "REDCLB6"  "REDCLC6"
##  [601] "REDCLG6"  "REDCLA7"  "REDCLB7"  "REDCLC7"  "REDCLG7"  "NGRDCHDC"
##  [607] "GRNDPA"   "GCH_070"  "AGRNDPAC" "FI_100"   "FI_105"   "FI_110"
##  [613] "NOCHRICC" "FI_130"   "FI_131"   "ASTERGR"  "FI_140"   "FI_230"
##  [619] "FI_231"   "APSTERGR" "FI_240"   "FI_500"   "FI_505"   "FI_510A"
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##  [625] "FI_510B"  "FI_510C"  "FI_510D"  "FI_510E"  "FI_510F"  "FI_510G"
##  [631] "FI_510H"  "FI_510I"  "FI_510J"  "FI_510K"  "BAPAST5Y" "ACHDMPL"
##  [637] "MPL_105A" "MPL_105B" "MPL_105C" "MPL_105D" "MPL_105E" "MPL_105I"
##  [643] "MPL_107"  "MPL_108"  "RTO_100"  "RTO_101"  "RTO_110"  "RTO_120"
##  [649] "RTO_130A" "RTO_130B" "RTO_130C" "RTO_130D" "RTO_130E" "RTO_130F"
##  [655] "RTO_130G" "ARSTPWKC" "DSW_110"  "ARRETWK"  "RTW_300"  "OTO_100"
##  [661] "OSW_110"  "COM_105"  "COM_110"  "COM_115"  "COM_120"  "COM_125"
##  [667] "COM_130"  "COM_135"  "COM_140"  "COM_145"  "COM_150"  "COM_155"
##  [673] "COM_200"  "COM_205A" "COM_205B" "COM_205C" "COM_205D" "COM_205E"
##  [679] "COM_210A" "COM_210B" "COM_210C" "COM_210D" "COM_210E" "COM_212"
##  [685] "COM_215"  "COM_220"  "COM_225"  "COM_230"  "COM_235"  "SEP20YR"
##  [691] "SEP5YR"   "LSTSEP20" "LSTSEP5"  "LDS_100"  "LDS_110C" "TSA_010"
##  [697] "TSA_020"  "TSA_030"  "TSA_040"  "TSA_050"  "TSA_060"  "TSA_070"
##  [703] "TSA_080"  "EXR_110"  "EXR_115C" "ATS_120"  "ATS_130"  "ATS_140"
##  [709] "ATS_145"  "STS_410"  "STS_420"  "STS_450"  "STS_460"  "NTS_100C"
##  [715] "MDC_117"  "MDC_120"  "MDC_130"  "FSE_100"  "FSE_105"  "FSE_110A"
##  [721] "FSE_110B" "FSE_110C" "FSE_110D" "CSP_100"  "CSP_105"  "CSP_110A"
##  [727] "CSP_110B" "CSP_110C" "CSP_110D" "CSP_150"  "CSP_160"  "CSP_170"
##  [733] "FSP_130"  "FSP135GR" "FSP_320"  "FSR_130"  "FSR135GR" "FSR_310"
##  [739] "NBSERV"   "UPS_500"  "UPS_510"  "UPS_520"  "UPS_530"  "UPS_540"
##  [745] "UPS_600"  "WORKLW"   "LMAM_01"  "LMAM_02"  "LMAM_03C" "WORKLYR"
##  [751] "REW_10"   "COW_10"   "NAIC12CW" "NAIC12CY" "NOC1610W" "NOC1610"
##  [757] "NWE_110"  "UHW_16GR" "UWS_230"  "TOE_240"  "TOE_241"  "ESC1_01"
##  [763] "EDE_01A"  "EDE_01B"  "EDE_01C"  "EDE_02"   "ACOMPSTC" "EHG3_01B"
##  [769] "EHG3_02B" "EHG3_03B" "EHG3_04B" "EHG3_05B" "ACMPRYR"  "MAP_110"
##  [775] "MAP_120C" "MAP_130"  "MAP_155"  "EOP_200"  "EOP_210"  "EOP_220"
##  [781] "EOP_230"  "EOP_240"  "SRH_110"  "SRH_115"  "SLM_01"   "DWELC"
##  [787] "ODR_10"   "ODR_15A"  "ODR_15B"  "ODR_15C"  "ODR_15D"  "ODR_15E"
##  [793] "BRTHMACR" "BRTHCAN"  "BRTHPRVC" "YRARRI"   "BPR_16"   "ALNDIMMG"
##  [799] "BPR_19"   "BRTHPCAN" "BRTPPRVC" "AMB_01"   "AIP_01"   "VISMIN"
##  [805] "VISMINPR" "RELIGFLG" "REE_02"   "REE_03"   "RLR_110"  "LAN_01"
##  [811] "LANHOME"  "LANHMULT" "LANMT"    "LANMTMUL" "TTLINCG2" "FAMINCG2"
##  [817] "WTBS_001" "WTBS_002" "WTBS_003" "WTBS_004" "WTBS_005" "WTBS_006"
##  [823] "WTBS_007" "WTBS_008" "WTBS_009" "WTBS_010" "WTBS_011" "WTBS_012"
##  [829] "WTBS_013" "WTBS_014" "WTBS_015" "WTBS_016" "WTBS_017" "WTBS_018"
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##  [913] "WTBS_097" "WTBS_098" "WTBS_099" "WTBS_100" "WTBS_101" "WTBS_102"
##  [919] "WTBS_103" "WTBS_104" "WTBS_105" "WTBS_106" "WTBS_107" "WTBS_108"
##  [925] "WTBS_109" "WTBS_110" "WTBS_111" "WTBS_112" "WTBS_113" "WTBS_114"
##  [931] "WTBS_115" "WTBS_116" "WTBS_117" "WTBS_118" "WTBS_119" "WTBS_120"
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##  [991] "WTBS_175" "WTBS_176" "WTBS_177" "WTBS_178" "WTBS_179" "WTBS_180"
##  [997] "WTBS_181" "WTBS_182" "WTBS_183" "WTBS_184" "WTBS_185" "WTBS_186"
## [1003] "WTBS_187" "WTBS_188" "WTBS_189" "WTBS_190" "WTBS_191" "WTBS_192"
## [1009] "WTBS_193" "WTBS_194" "WTBS_195" "WTBS_196" "WTBS_197" "WTBS_198"
## [1015] "WTBS_199" "WTBS_200" "WTBS_201" "WTBS_202" "WTBS_203" "WTBS_204"
## [1021] "WTBS_205" "WTBS_206" "WTBS_207" "WTBS_208" "WTBS_209" "WTBS_210"
## [1027] "WTBS_211" "WTBS_212" "WTBS_213" "WTBS_214" "WTBS_215" "WTBS_216"
## [1033] "WTBS_217" "WTBS_218" "WTBS_219" "WTBS_220" "WTBS_221" "WTBS_222"
## [1039] "WTBS_223" "WTBS_224" "WTBS_225" "WTBS_226" "WTBS_227" "WTBS_228"
## [1045] "WTBS_229" "WTBS_230" "WTBS_231" "WTBS_232" "WTBS_233" "WTBS_234"
## [1051] "WTBS_235" "WTBS_236" "WTBS_237" "WTBS_238" "WTBS_239" "WTBS_240"
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## [1093] "WTBS_277" "WTBS_278" "WTBS_279" "WTBS_280" "WTBS_281" "WTBS_282"
## [1099] "WTBS_283" "WTBS_284" "WTBS_285" "WTBS_286" "WTBS_287" "WTBS_288"
## [1105] "WTBS_289" "WTBS_290" "WTBS_291" "WTBS_292" "WTBS_293" "WTBS_294"
## [1111] "WTBS_295" "WTBS_296" "WTBS_297" "WTBS_298" "WTBS_299" "WTBS_300"
## [1117] "WTBS_301" "WTBS_302" "WTBS_303" "WTBS_304" "WTBS_305" "WTBS_306"
## [1123] "WTBS_307" "WTBS_308" "WTBS_309" "WTBS_310" "WTBS_311" "WTBS_312"
## [1129] "WTBS_313" "WTBS_314" "WTBS_315" "WTBS_316" "WTBS_317" "WTBS_318"
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## [1207] "WTBS_391" "WTBS_392" "WTBS_393" "WTBS_394" "WTBS_395" "WTBS_396"
## [1213] "WTBS_397" "WTBS_398" "WTBS_399" "WTBS_400" "WTBS_401" "WTBS_402"
## [1219] "WTBS_403" "WTBS_404" "WTBS_405" "WTBS_406" "WTBS_407" "WTBS_408"
## [1225] "WTBS_409" "WTBS_410" "WTBS_411" "WTBS_412" "WTBS_413" "WTBS_414"
## [1231] "WTBS_415" "WTBS_416" "WTBS_417" "WTBS_418" "WTBS_419" "WTBS_420"
## [1237] "WTBS_421" "WTBS_422" "WTBS_423" "WTBS_424" "WTBS_425" "WTBS_426"
## [1243] "WTBS_427" "WTBS_428" "WTBS_429" "WTBS_430" "WTBS_431" "WTBS_432"
```

```
## [1249] "WTBS_433" "WTBS_434" "WTBS_435" "WTBS_436" "WTBS_437" "WTBS_438"
## [1255] "WTBS_439" "WTBS_440" "WTBS_441" "WTBS_442" "WTBS_443" "WTBS_444"
## [1261] "WTBS_445" "WTBS_446" "WTBS_447" "WTBS_448" "WTBS_449" "WTBS_450"
## [1267] "WTBS_451" "WTBS_452" "WTBS_453" "WTBS_454" "WTBS_455" "WTBS_456"
## [1273] "WTBS_457" "WTBS_458" "WTBS_459" "WTBS_460" "WTBS_461" "WTBS_462"
## [1279] "WTBS_463" "WTBS_464" "WTBS_465" "WTBS_466" "WTBS_467" "WTBS_468"
## [1285] "WTBS_469" "WTBS_470" "WTBS_471" "WTBS_472" "WTBS_473" "WTBS_474"
## [1291] "WTBS_475" "WTBS_476" "WTBS_477" "WTBS_478" "WTBS_479" "WTBS_480"
## [1297] "WTBS_481" "WTBS_482" "WTBS_483" "WTBS_484" "WTBS_485" "WTBS_486"
## [1303] "WTBS_487" "WTBS_488" "WTBS_489" "WTBS_490" "WTBS_491" "WTBS_492"
## [1309] "WTBS_493" "WTBS_494" "WTBS_495" "WTBS_496" "WTBS_497" "WTBS_498"
## [1315] "WTBS_499" "WTBS_500"
```

```
table(d1$SEX)
```

```
##
##     1     2
##  9399 11203
```

```
table(d1$MARSTAT)
```

```
##
##    1    2    3    4    5    6   97   98
## 9501 2075 1899  643 1767 4710    2    5
```

```
summary(d1$AGEC)
```

```
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##   15.00   37.00   54.00   51.71   66.00   80.00
```

```
#load packages using the following code
library(tidyverse)
```

```
## ── Attaching core tidyverse packages ──────────────────────── tidyverse 2.0.0 ──
## ✓ dplyr     1.1.4     ✓ readr     2.1.5
## ✓ forcats   1.0.0     ✓ stringr   1.5.1
## ✓ ggplot2   3.5.1     ✓ tibble    3.2.1
## ✓ lubridate 1.9.3     ✓ tidyr     1.3.1
## ✓ purrr     1.0.2
## ── Conflicts ────────────────────────────────────────── tidyverse_conflicts() ──
## ✖ dplyr::filter() masks stats::filter()
## ✖ dplyr::lag()    masks stats::lag()
## ℹ Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to becom
e errors
```

```
library(tibble)
library(dplyr)

#recode variable MARSTAT
d1$MARSTAT2 <- recode(d1$MARSTAT,
                      "1" = "married/common-law",
                      "2" = "married/common-law",
                      "3" = "single now/previously married",
                      "4" = "single now/previously married",
                      "5" = "single now/previously married",
                      "6" = "never married",
                      "96" = NA_character_,
                      "97" = NA_character_,
                      "98" = NA_character_,
                      "99" = NA_character_)
# table featuring descriptive stats
table(d1$MARSTAT2)
```

```
##
##            married/common-law                 never married
##                         11576                          4710
## single now/previously married
##                          4309
```

```
# regression analysis
library(broom)

reg1 <- lm(AGEC ~ SEX + MARSTAT2, data = d1)
reg1
```

```
##
## Call:
## lm(formula = AGEC ~ SEX + MARSTAT2, data = d1)
##
## Coefficients:
##                           (Intercept)                                   SEX
##                               53.6822                               -0.7473
##                MARSTAT2never married  MARSTAT2single now/previously married
##                              -15.0132                               12.4708
```

```
#table featuring regression results
tidy_results <- tidy(reg1)
print(tidy_results)
```

```
## # A tibble: 4 × 5
##   term                                estimate std.error statistic  p.value
##   <chr>                                  <dbl>     <dbl>     <dbl>    <dbl>
## 1 (Intercept)                             53.7     0.357    150.   0
## 2 SEX                                     -0.747   0.216     -3.45 0.000558
## 3 MARSTAT2never married                  -15.0     0.264    -56.8  0
## 4 MARSTAT2single now/previously married   12.5     0.276     45.3  0
```