Problem Set 1 - PSID: Labor Market Outcomes

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psid_raw <- read_dta("~/SchoolWork/Y2S1/Macro/Data/PSID/PSID.dta")</pre>
cpi_data <- tibble(</pre>
  year = c(1999, 2001, 2003, 2005, 2007, 2009, 2011, 2013, 2015, 2017),
  cpi_2020_ratio = c(1.54, 1.44, 1.37, 1.26, 1.14, 1.18, 1.10, 1.08, 1.07, 1.02)
create_psid_panel <- function(data) {</pre>
  var_mapping <- tribble(</pre>
      ~year, ~age_var, ~sex_var, ~earnings_var, ~hours_var, ~wage_var, ~educ_var, ~ind_var,
      # These are PSID variable codes - you MUST verify these match your data
      1999, "ER13010", "ER13011", "ER13218", "ER13363", "ER13224", "ER15937", "ER13216", "ER
      2001, "ER17013", "ER17014", "ER17229", "ER17393", "ER17235", "ER19998", "ER17227", "ER
      2003, "ER21017", "ER21018", "ER21153", "ER21356", "ER21159", "ER23435", "ER21146", "ER
      2005, "ER25017", "ER25018", "ER25142", "ER25345", "ER25148", "ER27402", "ER25128", "ER
      2007, "ER36017", "ER36018", "ER36147", "ER36350", "ER36153", "ER40574", "ER36133", "ER
      2009, "ER42017", "ER42018", "ER42182", "ER42148", "ER42188", "ER46552", "ER42168", "ER
      2011, "ER47317", "ER47318", "ER47495", "ER47456", "ER47501", "ER51913", "ER47480", "ER
      2013, "ER53017", "ER53018", "ER53195", "ER53156", "ER53201", "ER57669", "ER53180", "ER
      2015, "ER60017", "ER60018", "ER60210", "ER60171", "ER60216", "ER64821", "ER60195", "ER
      2017, "ER66017", "ER66018", "ER66211", "ER66172", "ER66492", "ER70755", "ER66196", "ER
  )
  data <- data %>%
    mutate(
      famid = coalesce(ER66009, ER60009, ER53009, ER47309, ER42009,
                      ER36009, ER25009, ER21009, ER17022, ER13019)
    panel_data <- map_dfr(1:nrow(var_mapping), function(i) {</pre>
      year_info <- var_mapping[i,]</pre>
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Rows: 166,010 Columns: 11 \$ famid \$ age <dbl> 76, 47, 45, NA, 39, 34, 25, NA, 23, 22, 20, NA, NA, NA, NA~ <dbl> 1, 1, 2, NA, 2, 1, 2, NA, 1, 1, 2, NA, NA, NA, NA, 1, 1, N~ \$ sex <dbl> 0, 400, 0, NA, 0, 600, 0, NA, 0, 0, 0, NA, NA, NA, NA, S00~ \$ earning \$ hours <dbl> 0, 40, 65, NA, 45, 50, 0, NA, 40, 30, 40, NA, NA, NA, NA, ~ \$ hourly_wage <dbl> 0.00, 0.00, 0.00, NA, 15.35, 0.00, 0.00, NA, 8.50, 8.00, 5~ \$ education <dbl> 3, 3, 1, NA, 1, 3, 1, NA, 3, 1, 1, NA, NA, NA, NA, NA, 1, 1, N~ \$ industry <dbl> 0, 628, 669, NA, 907, 69, 0, NA, 139, 67, 669, NA, NA, NA,~ \$ lfp_status <dbl> 0, 0, 0, NA, 0, 0, NA, 0, 0, 0, NA, NA, NA, NA, NA, 0, 0, N~ <dbl> 91500, 26000, 413500, NA, 42000, 20000, 12700, NA, 3000, 1~ \$ wealth <dbl> 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999~ \$ year