

# Datathon Writeup

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```
library(haven)
Wave1_data <- read_sav("Wave1_20170906.sav")
glimpse(Wave1_data)

## Rows: 12,217
## Columns: 217
## $ country <dbl+lbl> 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, ~
## $ idnumber <dbl> 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 16, 17, 18, 28~
## $ level3 <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, ~
## $ yrsurvey <dbl+lbl> 2002, 2002, 2002, 2002, 2002, 2002, 2002, 2002, 2002, 200~
## $ se002 <dbl+lbl> 1, 2, 2, 2, 1, 1, 2, 2, 1, 2, 2, 2, 1, 2, 2, 1, 2, 2, 2, ~
## $ se003 <dbl+lbl> 5, 10, 10, 5, 7, 10, 2, 10, 10, 3, 7, 10, 1, 10, 1~
## $ se003a <dbl+lbl> 38, 60, 69, 39, 48, 64, 23, 63, 66, 26, 45, 67, 18, 61, 7~
## $ se004 <dbl+lbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, N~
## $ se004a <dbl+lbl> 1, 1, 1, 1, 1, 1, 2, 1, 1, 1, 1, 1, 2, 1, 1, 1, 1, 1, ~
## $ se005 <dbl+lbl> 5, 4, 1, 8, 4, 4, 5, 1, 4, 4, 3, 1, 5, 4, 1, 5, 1, 4, 9, ~
## $ se005a <dbl+lbl> 10, 8, 3, 13, 7, 8, 12, 2, 9, 9, 5, 0, 11, 10, ~
## $ se005b <dbl+lbl> 3, 3, 1, 4, 3, 3, 3, 1, 3, 3, 2, 1, 3, 3, 1, 3, 1, 3, 4, ~
## $ se006 <dbl+lbl> 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 5, 11, ~
## $ se007 <dbl+lbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, N~
## $ se008a <dbl+lbl> 4, 5, 2, 4, 4, 3, 4, 2, 2, 4, 3, 5, 5, 8, 1, 7, 2, 3, 3, ~
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## $ se012a <dbl+lbl> 7, 7, 7, 2, 7, 2, 7, 7, 1, 7, 7, 7, 97, 3, ~
## $ se012bjp <dbl+lbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, N~
## $ se012bhk <dbl+lbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, N~
## $ se012bkr <dbl+lbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, N~
## $ se012bcn <dbl+lbl> 670, 640, 640, 210, 660, 210, 880, 710, 31, 891, 892, 71~
## $ se012bmo <dbl+lbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, N~
## $ se012bph <dbl+lbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, N~
## $ se012btw <dbl+lbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, N~
## $ se012bth <dbl+lbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, N~
## $ se014 <dbl+lbl> 3, 1, 2, 2, 2, 2, 2, 2, 2, 2, 1, 3, 2, 1, 1, 1, 5, 5, ~
## $ se016 <dbl+lbl> 401, 401, 403, 401, 401, 401, 401, 401, 401, 401, 401, 40~
## $ se017 <dbl+lbl> 3, 4, 3, NA, 5, 4, 3, 3, 4, 3, 5, 5, 3, 3, ~
## $ relig1 <dbl+lbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, N~
## $ fgnum <dbl+lbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, N~
## $ pgnum <dbl+lbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, N~
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## $ q003 <dbl+lbl> 5, 5, 5, 5, NA, 4, 4, 4, NA, NA, 1, 4, 5, 4, ~
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## \$ q007	<dbl+lbl>	3,	4,	4,	4,	4,	4,	4,	3,	4,	1,	NA,	4,	3,	N~	
## \$ q008	<dbl+lbl>	3,	4,	4,	4,	4,	4,	4,	4,	4,	1,	NA,	4,	3,	N~	
## \$ q009	<dbl+lbl>	3,	3,	4,	4,	4,	4,	4,	4,	4,	1,	NA,	4,	4,	N~	
## \$ q010	<dbl+lbl>	3,	4,	4,	4,	4,	4,	4,	4,	4,	1,	NA,	4,	4,	N~	
## \$ q011	<dbl+lbl>	2,	3,	NA,	4,	3,	4,	4,	3,	3,	4,	1,	NA,	4,	3,	N~
## \$ q012	<dbl+lbl>	4,	4,	4,	4,	4,	4,	4,	3,	4,	1,	NA,	4,	3,	N~	
## \$ q013	<dbl+lbl>	2,	4,	4,	4,	4,	4,	3,	4,	3,	4,	1,	NA,	4,	3,	N~
## \$ q014	<dbl+lbl>	3,	3,	3,	4,	3,	4,	4,	4,	3,	4,	1,	NA,	4,	3,	N~
## \$ q015	<dbl+lbl>	2,	3,	NA,	3,	2,	4,	4,	4,	4,	4,	1,	NA,	3,	3,	
## \$ q016	<dbl+lbl>	2,	3,	4,	3,	2,	4,	4,	4,	4,	4,	1,	NA,	3,	3,	~
## \$ q017	<dbl+lbl>	NA,	NA,	NA,	NA,	NA,	NA,	NA,	NA,	NA,	NA,	NA,	NA,	NA,	NA,	N~
## \$ q018	<dbl+lbl>	2,	2,	4,	3,	1,	NA,	4,	3,	4,	3,	1,	NA,	3,	3,	N~
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## \$ q018_2	<dbl+lbl>	3,	4,	2,	4,	3,	4,	NA,	4,	3,	3,	1,	NA,	3,	3,	N~
## \$ q018_3	<dbl+lbl>	2,	2,	4,	3,	2,	3,	3,	2,	3,	2,	1,	NA,	1,	3,	N~
## \$ q018_4	<dbl+lbl>	3,	2,	4,	3,	4,	3,	2,	3,	3,	4,	NA,	NA,	3,	3,	N~
## \$ q018_5	<dbl+lbl>	4,	4,	4,	4,	4,	4,	4,	4,	4,	4,	1,	NA,	4,	3,	N~
## \$ q018_6	<dbl+lbl>	NA,	NA,	NA,	NA,	NA,	NA,	NA,	NA,	NA,	NA,	NA,	NA,	NA,	NA,	N~
## \$ q018_7	<dbl+lbl>	NA,	NA,	NA,	NA,	NA,	NA,	NA,	NA,	NA,	NA,	NA,	NA,	NA,	NA,	N~
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## \$ q022	<dbl+lbl>	NA,	NA,	NA,	NA,	NA,	NA,	NA,	NA,	NA,	NA,	NA,	NA,	NA,	NA,	N~
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## \$ q024	<dbl+lbl>	1,	2,	1,	2,	1,	2,	2,	1,	NA,	1,	1,	NA,	1,	2,	~
## \$ q025	<dbl+lbl>	2,	NA,	2,	3,	2,	3,	3,	2,	2,	3,	3,	NA,	2,	3,	N~
## \$ q026	<dbl+lbl>	NA,	NA,	NA,	NA,	NA,	NA,	NA,	NA,	NA,	NA,	NA,	NA,	NA,	NA,	N~
## \$ q027	<dbl+lbl>	2,	NA,	NA,	2,	NA,	NA,	NA,	NA,	NA,	NA,	NA,	NA,	NA,	NA,	N~
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## \$ q031	<dbl+lbl>	NA,	NA,	NA,	NA,	NA,	NA,	NA,	NA,	NA,	NA,	NA,	NA,	NA,	NA,	N~
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## \$ q035	<dbl+lbl>	NA,</														

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 ## \$ q110 <dbl+lbl> 2, 2, 2, 2, 1, 2, 2, 2, 1, 1, 1, NA, 2, 2, ~  
 ## \$ q111 <dbl+lbl> 5, 4, 5, 5, 5, 5, 5, 5, 5, 5, 1, NA, 5, 4, ~  
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 ## \$ q145 <dbl+lbl> 2, NA, 2, 3, 2, 3, 3, 2, 3, 3, NA, NA, 3, 3, N~  
 ## \$ q146 <dbl+lbl> 2, 2, 2, 2, 2, 3, NA, 3, 2, 3, NA, NA, 2, 3, N~  
 ## \$ q147 <dbl+lbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, N~  
 ## \$ q147a <dbl+lbl> 3, 3, 2, 3, 2, 3, 3, 3, 3, 3, NA, NA, 3, 3, N~  
 ## \$ q148 <dbl+lbl> 2, 2, 2, 3, 2, 3, 3, 3, NA, 3, NA, NA, 3, 3, N~  
 ## \$ ir001 <dbl+lbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, N~  
 ## \$ ir002 <dbl+lbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, N~  
 ## \$ ir002a <dbl+lbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, N~  
 ## \$ ir002b <dbl+lbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, N~  
 ## \$ ir003 <dbl+lbl> 2, 1, 1, 2, 1, 2, 1, 2, 2, 1, 1, 1, 1, 1, 1, 2, 1, 1, 2, ~  
 ## \$ ir004 <dbl+lbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, N~  
 ## \$ ir005 <dbl+lbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, N~  
 ## \$ ir006 <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 3, 3, 1, 1, 1, 2, 3, 1, 2, ~

```
## $ ir007_1 <dbl+lbl> 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, ~
## $ ir007_2 <dbl+lbl> 16, 15, 15, 16, 15, 17, 16, 16, 17, 17, 18, 19, 19, 19, 1~
## $ ir007_3 <dbl+lbl> 2002, 2002, 2002, 2002, 2002, 2002, 2002, 2002, 2002, 200~
## $ ir009 <dbl+lbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, N~
## $ ir010a <dbl+lbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, N~
## $ ir010b <dbl+lbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, N~
## $ ir010c <dbl+lbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, N~
## $ ir010d <dbl+lbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, N~
## $ ir010e <dbl+lbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, N~
## $ w_jp <dbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, N~
## $ w_hk <dbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, N~
## $ w_kr <dbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, N~
## $ w_cn <dbl> 0.6213896, 0.4467852, 0.5836579, 0.4900004, 0.3966473, 0.4790~
## $ w_mo <dbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, N~
## $ w_ph <dbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, N~
## $ w_tw <dbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, N~
## $ w_th <dbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, N~
## $ w_all <dbl> 0.62, 0.45, 0.58, 0.49, 0.40, 0.48, 1.47, 0.45, 0.41, 1.12, 0~
wave_data_na <- Wave1_data
```