

Table 4 -> Table 6

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```
library(tidyverse)

## Warning: package 'tidyverse' was built under R version 3.4.3
## -- Attaching packages ----- tidyverse 1.2.1 --
## v ggplot2 2.2.1      v purrr  0.2.4
## v tibble  1.4.2      v dplyr  0.7.4
## v tidyr   0.8.0      v stringr 1.2.0
## v readr   1.1.1      v forcats 0.2.0

## Warning: package 'ggplot2' was built under R version 3.4.3
## Warning: package 'tibble' was built under R version 3.4.3
## Warning: package 'tidyr' was built under R version 3.4.3
## Warning: package 'readr' was built under R version 3.4.3
## Warning: package 'purrr' was built under R version 3.4.3
## Warning: package 'dplyr' was built under R version 3.4.3
## Warning: package 'stringr' was built under R version 3.4.2
## Warning: package 'forcats' was built under R version 3.4.3

## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()     masks stats::lag()

raw <- read_csv("rawdata.csv")

## Parsed with column specification:
## cols(
##   religion = col_character(),
##   `<$10k` = col_integer(),
##   `$10-20k` = col_integer(),
##   `$20-30k` = col_integer(),
##   `$30-40k` = col_integer(),
##   `$40-50k` = col_integer(),
##   `$50-75k` = col_integer()
## )

raw

## # A tibble: 10 x 7
##   religion    `<$10k`  `$10-20k`  `$20-30k`  `$30-40k`  `$40-50k`  `$50-75k`
##   <chr>      <int>      <int>      <int>      <int>      <int>      <int>
## 1 Agnostic      27        34        60        81        76       137
## 2 Atheist       12        27        37        52        35        70
## 3 Buddhist      27        21        30        34        33        58
## 4 Catholic    418       617       732       670       638      1116
## 5 Don't know/r~  15        14        15        11        10        35
## 6 Evangelical ~ 575       869     1064     982       881     1486
```

```
## 7 Hindu 1 9 7 9 11 34
## 8 Historically~ 228 244 236 238 197 223
## 9 Jehovah's Wi~ 20 27 24 24 21 30
## 10 Jewish 19 19 25 25 30 95
```

```
raw.tidy <- raw %>% gather(key = "Income", value = "frequency", -religion)
```

```
raw.tidy
```

```
## # A tibble: 60 x 3
##   religion      Income frequency
##   <chr>         <chr>      <int>
## 1 Agnostic    <$10k         27
## 2 Atheist     <$10k         12
## 3 Buddhist    <$10k         27
## 4 Catholic    <$10k        418
## 5 Don't know/refused <$10k         15
## 6 Evangelical Prot <$10k        575
## 7 Hindu       <$10k          1
## 8 Historically Black Prot <$10k        228
## 9 Jehovah's Witness <$10k         20
## 10 Jewish     <$10k         19
## # ... with 50 more rows
```

```
raw.tidy2 <- raw.tidy %>% arrange(religion)
```

```
## Warning: package 'bindrcpp' was built under R version 3.4.3
```

```
raw.tidy2
```

```
## # A tibble: 60 x 3
##   religion Income frequency
##   <chr>     <chr>      <int>
## 1 Agnostic <$10k         27
## 2 Agnostic $10-20k        34
## 3 Agnostic $20-30k        60
## 4 Agnostic $30-40k        81
## 5 Agnostic $40-50k        76
## 6 Agnostic $50-75k       137
## 7 Atheist  <$10k         12
## 8 Atheist  $10-20k        27
## 9 Atheist  $20-30k        37
## 10 Atheist  $30-40k        52
## # ... with 50 more rows
```