

Untitled

Han Xiao

2/21/2018

10.5

1. Tibbles are data frames, but they tweak some older behaviours to make life a little easier. Tibble will only print a limited number of rows and show the class on top of each column.

```
library(tidyverse)

## -- Attaching packages ----- tidyverse 1.2.1 --
## √ ggplot2 2.2.1      √ purrr  0.2.4
## √ tibble  1.4.2      √ dplyr  0.7.4
## √ tidyr   0.8.0      √ stringr 1.3.0
## √ readr   1.1.1      √ forcats 0.3.0

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

library(foreign)
library(stringr)
library(plyr)

## -----
## You have loaded plyr after dplyr - this is likely to cause problems.
## If you need functions from both plyr and dplyr, please load plyr first, then dplyr:
## library(plyr); library(dplyr)
## -----
##
## Attaching package: 'plyr'

## The following objects are masked from 'package:dplyr':
##
##   arrange, count, desc, failwith, id, mutate, rename, summarise,
##   summarize

## The following object is masked from 'package:purrr':
##
##   compact

library(reshape2)

##
## Attaching package: 'reshape2'

## The following object is masked from 'package:tidyr':
##
##   smiths
```

```
mtcars
```

```
##          mpg cyl  disp  hp drat   wt  qsec vs am gear carb
## Mazda RX4      21.0   6  160.0  110 3.90 2.620 16.46 0  1    4    4
## Mazda RX4 Wag  21.0   6  160.0  110 3.90 2.875 17.02 0  1    4    4
## Datsun 710      22.8   4  108.0   93 3.85 2.320 18.61 1  1    4    1
## Hornet 4 Drive  21.4   6  258.0  110 3.08 3.215 19.44 1  0    3    1
## Hornet Sportabout 18.7   8  360.0  175 3.15 3.440 17.02 0  0    3    2
## Valiant         18.1   6  225.0  105 2.76 3.460 20.22 1  0    3    1
## Duster 360      14.3   8  360.0  245 3.21 3.570 15.84 0  0    3    4
## Merc 240D       24.4   4  146.7   62 3.69 3.190 20.00 1  0    4    2
## Merc 230        22.8   4  140.8   95 3.92 3.150 22.90 1  0    4    2
## Merc 280        19.2   6  167.6  123 3.92 3.440 18.30 1  0    4    4
## Merc 280C       17.8   6  167.6  123 3.92 3.440 18.90 1  0    4    4
## Merc 450SE      16.4   8  275.8  180 3.07 4.070 17.40 0  0    3    3
## Merc 450SL      17.3   8  275.8  180 3.07 3.730 17.60 0  0    3    3
## Merc 450SLC     15.2   8  275.8  180 3.07 3.780 18.00 0  0    3    3
## Cadillac Fleetwood 10.4   8  472.0  205 2.93 5.250 17.98 0  0    3    4
## Lincoln Continental 10.4   8  460.0  215 3.00 5.424 17.82 0  0    3    4
## Chrysler Imperial 14.7   8  440.0  230 3.23 5.345 17.42 0  0    3    4
## Fiat 128        32.4   4   78.7   66 4.08 2.200 19.47 1  1    4    1
## Honda Civic     30.4   4   75.7   52 4.93 1.615 18.52 1  1    4    2
## Toyota Corolla  33.9   4   71.1   65 4.22 1.835 19.90 1  1    4    1
## Toyota Corona   21.5   4  120.1   97 3.70 2.465 20.01 1  0    3    1
## Dodge Challenger 15.5   8  318.0  150 2.76 3.520 16.87 0  0    3    2
## AMC Javelin     15.2   8  304.0  150 3.15 3.435 17.30 0  0    3    2
## Camaro Z28      13.3   8  350.0  245 3.73 3.840 15.41 0  0    3    4
## Pontiac Firebird 19.2   8  400.0  175 3.08 3.845 17.05 0  0    3    2
## Fiat X1-9       27.3   4   79.0   66 4.08 1.935 18.90 1  1    4    1
## Porsche 914-2   26.0   4  120.3   91 4.43 2.140 16.70 0  1    5    2
## Lotus Europa    30.4   4   95.1  113 3.77 1.513 16.90 1  1    5    2
## Ford Pantera L  15.8   8  351.0  264 4.22 3.170 14.50 0  1    5    4
## Ferrari Dino    19.7   6  145.0  175 3.62 2.770 15.50 0  1    5    6
## Maserati Bora   15.0   8  301.0  335 3.54 3.570 14.60 0  1    5    8
## Volvo 142E     21.4   4  121.0  109 4.11 2.780 18.60 1  1    4    2
```

2.

Using dollar sign a data.frame will partially complete the column. This saves a few keystrokes, but can result in accidentally using a different variable than you thought you were using. With data.frames, with [the type of object that is returned differs on the number of columns. If it is one column, it won't return a data.frame, but instead will return a vector. With more than one column, then it will return a data.frame. This is fine if you know what you are passing in, but suppose you did `df[, vars]` where `vars` was a variable. Then you what that code does depends on `length(vars)` and you'd have to write code to account for those situations or risk bugs.

```
#df <- data.frame(abc = 1, xyz = "a")
#df$x
#df[, "xyz"]
#df[, c("abc", "xyz")]

#tbl <- as_tibble(df)
#tbl$x
```

```
#tbl[, "xyz"]
#tbl[, c("abc", "xyz")]
```

3.

You can use the double bracket, like `df[[var]]`. You cannot use the dollar sign, because `df$var` would look for a column named `var`.

4.

```
#annoying <- tibble(
#   `1` = 1:10,
#   `2` = `1` * 2 + rnorm(length(`1`))
#)

#annoying[["1"]]
#annoying$`1`
#ggplot(annoying, aes(x = `1`, y = `2`)) +
#  geom_point()
#annoying[["3"]] <- annoying$`2` / annoying$`1`
#annoying <- rename(annoying, one = `1`, two = `2`, three = `3`)
#glimpse(annoying)
```

5.It converts named vectors to a data frame with names and values

```
#enframe(c(a = 1, b = 2, c = 3))
```

6.The print function for tibbles is in `print.tbl_df`

The option `n_extra` determines the number of extra columns to print information for.

12.6.1

```
#who1 <- who %>%
#   gather(new_sp_m014:newrel_f65, key = "key", value = "cases", na.rm = TRUE)
#glimpse(who1)

#who2 <- who1 %>%
#   mutate(key = stringr::str_replace(key, "newrel", "new_rel"))

#who3 <- who2 %>%
#   separate(key, c("new", "type", "sexage"), sep = "_")
#who3

#who3 %>%
#   count(new)
#count(who$new)
```

```
#who4 <- who3 %>%
#   select(-new, -iso2, -iso3)

#who5 <- who4 %>%
#   separate(sexage, c("sex", "age"), sep = 1)
#who5
```

1

So it appears that either a country has all its values in a year as non-missing if the WHO collected data for that country, or all its values are non-missing. So it is okay to treat explicitly and implicitly missing values the same, and we don't lose any information by dropping them.

```
#who1 %>%
#   filter(cases == 0) %>%
#   nrow()

#gather(who, new_sp_m014:newrel_f65, key = "key", value = "cases") %>%
#   group_by(country, year) %>%
#   mutate(missing = is.na(cases)) %>%
#   select(country, year, missing) %>%
#   distinct() %>%
#   group_by(country, year) %>%
#   filter(n() > 1)
```

2

separate emits the warning “too few values”, and if we check the rows for keys beginning with “newrel_”, we see that sexage is messing, and type = m014

```
#who3a <- who1 %>%
#   separate(key, c("new", "type", "sexage"), sep = "_")
#filter(who3a, new == "newrel") %>% head()
```

3

```
#select(who3, country, iso2, iso3) %>%
#   distinct() %>%
#   group_by(country) %>%
#   filter(n() > 1)

#who5 %>%
#   group_by(country, year, sex) %>%
#   filter(year > 1995) %>%
#   summarise(cases = sum(cases)) %>%
#   unite(country_sex, country, sex, remove = FALSE) %>%
#   ggplot(aes(x = year, y = cases, group = country_sex, colour = sex)) +
#   geom_line()
```

second part

1.

```
pew <- read.spss("pew.sav")

## re-encoding from CP1252

## Warning in read.spss("pew.sav"): Undeclared level(s) 2, 3, 4, 9 added in
## variable: density3

## Warning in read.spss("pew.sav"): Duplicated levels in factor denom:
## Electronic ministries

## Warning in read.spss("pew.sav"): Undeclared level(s) 1, 2, 3, 4, 5, 6, 7,
## 8, 9, 10, 11, 12, 14, 16, 23, 33 added in variable: children

## Warning in read.spss("pew.sav"): Undeclared level(s) 18, 19, 20, 21, 22,
## 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41,
## 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60,
## 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79,
## 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96 added in
## variable: age

pew <- as.data.frame(pew)

religion <- pew[c("q16", "reltrad", "income")]
religion$reltrad <- as.character(religion$reltrad)
religion$reltrad <- str_replace(religion$reltrad, " Churches", "")
religion$reltrad <- str_replace(religion$reltrad, " Protestant", " Prot")
religion$reltrad[religion$q16 == " Atheist (do not believe in God) "] <- "Atheist"
religion$reltrad[religion$q16 == " Agnostic (not sure if there is a God) "] <- "Agnostic"
religion$reltrad <- str_trim(religion$reltrad)
religion$reltrad <- str_replace_all(religion$reltrad, " \\(.*?\\)", "")

religion$income <- c("Less than $10,000" = "<$10k",
  "10 to under $20,000" = "$10-20k",
  "20 to under $30,000" = "$20-30k",
  "30 to under $40,000" = "$30-40k",
  "40 to under $50,000" = "$40-50k",
  "50 to under $75,000" = "$50-75k",
  "75 to under $100,000" = "$75-100k",
  "100 to under $150,000" = "$100-150k",
  "$150,000 or more" = ">150k",
  "Don't know/Refused (VOL)" = "Don't know/refused")[religion$income]

religion$income <- factor(religion$income, levels = c("<$10k", "$10-20k", "$20-30k", "$30-40k", "$40-50k",
  "$75-100k", "$100-150k", ">150k", "Don't know/refused"))

counts <- count(religion, c("reltrad", "income"))
names(counts)[1] <- "religion"
raw <- dcast(counts, religion ~ income)

## Using freq as value column: use value.var to override.
```

```
table4 <- raw[1:10, 1:11]
```

```
a <- gather(data = table4, key = income, value = freq, -religion)
a <- a[order(a$religion),]
a
```

##	religion	income	freq
## 1	Agnostic	<\$10k	27
## 11	Agnostic	\$10-20k	34
## 21	Agnostic	\$20-30k	60
## 31	Agnostic	\$30-40k	81
## 41	Agnostic	\$40-50k	76
## 51	Agnostic	\$50-75k	137
## 61	Agnostic	\$75-100k	122
## 71	Agnostic	\$100-150k	109
## 81	Agnostic	>150k	84
## 91	Agnostic	Don't know/refused	96
## 2	Atheist	<\$10k	12
## 12	Atheist	\$10-20k	27
## 22	Atheist	\$20-30k	37
## 32	Atheist	\$30-40k	52
## 42	Atheist	\$40-50k	35
## 52	Atheist	\$50-75k	70
## 62	Atheist	\$75-100k	73
## 72	Atheist	\$100-150k	59
## 82	Atheist	>150k	74
## 92	Atheist	Don't know/refused	76
## 3	Buddhist	<\$10k	27
## 13	Buddhist	\$10-20k	21
## 23	Buddhist	\$20-30k	30
## 33	Buddhist	\$30-40k	34
## 43	Buddhist	\$40-50k	33
## 53	Buddhist	\$50-75k	58
## 63	Buddhist	\$75-100k	62
## 73	Buddhist	\$100-150k	39
## 83	Buddhist	>150k	53
## 93	Buddhist	Don't know/refused	54
## 4	Catholic	<\$10k	418
## 14	Catholic	\$10-20k	617
## 24	Catholic	\$20-30k	732
## 34	Catholic	\$30-40k	670
## 44	Catholic	\$40-50k	638
## 54	Catholic	\$50-75k	1116
## 64	Catholic	\$75-100k	949
## 74	Catholic	\$100-150k	792
## 84	Catholic	>150k	633
## 94	Catholic	Don't know/refused	1489
## 5	Don't know/refused	<\$10k	15
## 15	Don't know/refused	\$10-20k	14
## 25	Don't know/refused	\$20-30k	15
## 35	Don't know/refused	\$30-40k	11
## 45	Don't know/refused	\$40-50k	10
## 55	Don't know/refused	\$50-75k	35

## 65	Don't know/refused	\$75-100k	21
## 75	Don't know/refused	\$100-150k	17
## 85	Don't know/refused	>150k	18
## 95	Don't know/refused	Don't know/refused	116
## 6	Evangelical Prot	<\$10k	575
## 16	Evangelical Prot	\$10-20k	869
## 26	Evangelical Prot	\$20-30k	1064
## 36	Evangelical Prot	\$30-40k	982
## 46	Evangelical Prot	\$40-50k	881
## 56	Evangelical Prot	\$50-75k	1486
## 66	Evangelical Prot	\$75-100k	949
## 76	Evangelical Prot	\$100-150k	723
## 86	Evangelical Prot	>150k	414
## 96	Evangelical Prot	Don't know/refused	1529
## 7	Hindu	<\$10k	1
## 17	Hindu	\$10-20k	9
## 27	Hindu	\$20-30k	7
## 37	Hindu	\$30-40k	9
## 47	Hindu	\$40-50k	11
## 57	Hindu	\$50-75k	34
## 67	Hindu	\$75-100k	47
## 77	Hindu	\$100-150k	48
## 87	Hindu	>150k	54
## 97	Hindu	Don't know/refused	37
## 8	Historically Black Prot	<\$10k	228
## 18	Historically Black Prot	\$10-20k	244
## 28	Historically Black Prot	\$20-30k	236
## 38	Historically Black Prot	\$30-40k	238
## 48	Historically Black Prot	\$40-50k	197
## 58	Historically Black Prot	\$50-75k	223
## 68	Historically Black Prot	\$75-100k	131
## 78	Historically Black Prot	\$100-150k	81
## 88	Historically Black Prot	>150k	78
## 98	Historically Black Prot	Don't know/refused	339
## 9	Jehovah's Witness	<\$10k	20
## 19	Jehovah's Witness	\$10-20k	27
## 29	Jehovah's Witness	\$20-30k	24
## 39	Jehovah's Witness	\$30-40k	24
## 49	Jehovah's Witness	\$40-50k	21
## 59	Jehovah's Witness	\$50-75k	30
## 69	Jehovah's Witness	\$75-100k	15
## 79	Jehovah's Witness	\$100-150k	11
## 89	Jehovah's Witness	>150k	6
## 99	Jehovah's Witness	Don't know/refused	37
## 10	Jewish	<\$10k	19
## 20	Jewish	\$10-20k	19
## 30	Jewish	\$20-30k	25
## 40	Jewish	\$30-40k	25
## 50	Jewish	\$40-50k	30
## 60	Jewish	\$50-75k	95
## 70	Jewish	\$75-100k	69
## 80	Jewish	\$100-150k	87
## 90	Jewish	>150k	151
## 100	Jewish	Don't know/refused	162

```
raw <- read.csv("billboard.csv")
raw <- raw[, c("year", "artist.inverted", "track", "time", "date.entered", "x1st.week", "x2nd.week", "x3rd.week", "x4th.week", "x5th.week", "x6th.week", "x7th.week", "x8th.week", "x9th.week", "x10th.week")]
names(raw)[2] <- "artist"

raw$artist <- iconv(raw$artist, "MAC", "ASCII//translit")
raw$track <- str_replace(raw$track, "\\(\\.\\?\\)", "")
names(raw)[-1:5] <- str_c("wk", 1:76)
raw <- arrange(raw, year, artist, track)

long_name <- nchar(raw$track) > 20
raw$track[long_name] <- paste0(substr(raw$track[long_name], 0, 20), "...")

table7 <- raw[c(1:3, 6:10), ]

b <- table7 %>% gather(key = 'week', value = 'rank', -year, -artist, -time, -track, -date.entered, na.rm = TRUE)

b$week <- as.integer(str_replace_all(b$week, "[^0-9]+", ""))
b <- rename(b, c('date.entered' = 'date'))
b <- b[order(b$artist), ]
b
```

8

## 155	2000	3 Doors Down	Kryptonite	3:53	2000-04-08	20	14
## 163	2000	3 Doors Down	Kryptonite	3:53	2000-04-08	21	12
## 171	2000	3 Doors Down	Kryptonite	3:53	2000-04-08	22	7
## 179	2000	3 Doors Down	Kryptonite	3:53	2000-04-08	23	6
## 187	2000	3 Doors Down	Kryptonite	3:53	2000-04-08	24	6
## 195	2000	3 Doors Down	Kryptonite	3:53	2000-04-08	25	6
## 203	2000	3 Doors Down	Kryptonite	3:53	2000-04-08	26	5
## 211	2000	3 Doors Down	Kryptonite	3:53	2000-04-08	27	5
## 219	2000	3 Doors Down	Kryptonite	3:53	2000-04-08	28	4
## 227	2000	3 Doors Down	Kryptonite	3:53	2000-04-08	29	4
## 235	2000	3 Doors Down	Kryptonite	3:53	2000-04-08	30	4
## 243	2000	3 Doors Down	Kryptonite	3:53	2000-04-08	31	4
## 251	2000	3 Doors Down	Kryptonite	3:53	2000-04-08	32	3
## 259	2000	3 Doors Down	Kryptonite	3:53	2000-04-08	33	3
## 267	2000	3 Doors Down	Kryptonite	3:53	2000-04-08	34	3
## 275	2000	3 Doors Down	Kryptonite	3:53	2000-04-08	35	4
## 283	2000	3 Doors Down	Kryptonite	3:53	2000-04-08	36	5
## 291	2000	3 Doors Down	Kryptonite	3:53	2000-04-08	37	5
## 299	2000	3 Doors Down	Kryptonite	3:53	2000-04-08	38	9
## 307	2000	3 Doors Down	Kryptonite	3:53	2000-04-08	39	9
## 315	2000	3 Doors Down	Kryptonite	3:53	2000-04-08	40	15
## 323	2000	3 Doors Down	Kryptonite	3:53	2000-04-08	41	14
## 331	2000	3 Doors Down	Kryptonite	3:53	2000-04-08	42	13
## 339	2000	3 Doors Down	Kryptonite	3:53	2000-04-08	43	14
## 347	2000	3 Doors Down	Kryptonite	3:53	2000-04-08	44	16
## 355	2000	3 Doors Down	Kryptonite	3:53	2000-04-08	45	17
## 363	2000	3 Doors Down	Kryptonite	3:53	2000-04-08	46	21
## 371	2000	3 Doors Down	Kryptonite	3:53	2000-04-08	47	22
## 379	2000	3 Doors Down	Kryptonite	3:53	2000-04-08	48	24
## 387	2000	3 Doors Down	Kryptonite	3:53	2000-04-08	49	28
## 395	2000	3 Doors Down	Kryptonite	3:53	2000-04-08	50	33
## 403	2000	3 Doors Down	Kryptonite	3:53	2000-04-08	51	42
## 411	2000	3 Doors Down	Kryptonite	3:53	2000-04-08	52	42
## 419	2000	3 Doors Down	Kryptonite	3:53	2000-04-08	53	49
## 4	2000	98~0 Give Me Just One Nig...		3:24	2000-08-19	1	51
## 12	2000	98~0 Give Me Just One Nig...		3:24	2000-08-19	2	39
## 20	2000	98~0 Give Me Just One Nig...		3:24	2000-08-19	3	34
## 28	2000	98~0 Give Me Just One Nig...		3:24	2000-08-19	4	26
## 36	2000	98~0 Give Me Just One Nig...		3:24	2000-08-19	5	26
## 44	2000	98~0 Give Me Just One Nig...		3:24	2000-08-19	6	19
## 52	2000	98~0 Give Me Just One Nig...		3:24	2000-08-19	7	2
## 60	2000	98~0 Give Me Just One Nig...		3:24	2000-08-19	8	2
## 68	2000	98~0 Give Me Just One Nig...		3:24	2000-08-19	9	3
## 76	2000	98~0 Give Me Just One Nig...		3:24	2000-08-19	10	6
## 84	2000	98~0 Give Me Just One Nig...		3:24	2000-08-19	11	7
## 92	2000	98~0 Give Me Just One Nig...		3:24	2000-08-19	12	22
## 100	2000	98~0 Give Me Just One Nig...		3:24	2000-08-19	13	29
## 108	2000	98~0 Give Me Just One Nig...		3:24	2000-08-19	14	36
## 116	2000	98~0 Give Me Just One Nig...		3:24	2000-08-19	15	47
## 124	2000	98~0 Give Me Just One Nig...		3:24	2000-08-19	16	67
## 132	2000	98~0 Give Me Just One Nig...		3:24	2000-08-19	17	66
## 140	2000	98~0 Give Me Just One Nig...		3:24	2000-08-19	18	84
## 148	2000	98~0 Give Me Just One Nig...		3:24	2000-08-19	19	93
## 156	2000	98~0 Give Me Just One Nig...		3:24	2000-08-19	20	94

## 5	2000	A*Teens	Dancing Queen 3:44	2000-07-08	1	97
## 13	2000	A*Teens	Dancing Queen 3:44	2000-07-08	2	97
## 21	2000	A*Teens	Dancing Queen 3:44	2000-07-08	3	96
## 29	2000	A*Teens	Dancing Queen 3:44	2000-07-08	4	95
## 37	2000	A*Teens	Dancing Queen 3:44	2000-07-08	5	100
## 6	2000	Aaliyah	I Don't Wanna 4:15	2000-01-29	1	84
## 7	2000	Aaliyah	Try Again 4:03	2000-03-18	1	59
## 14	2000	Aaliyah	I Don't Wanna 4:15	2000-01-29	2	62
## 15	2000	Aaliyah	Try Again 4:03	2000-03-18	2	53
## 22	2000	Aaliyah	I Don't Wanna 4:15	2000-01-29	3	51
## 23	2000	Aaliyah	Try Again 4:03	2000-03-18	3	38
## 30	2000	Aaliyah	I Don't Wanna 4:15	2000-01-29	4	41
## 31	2000	Aaliyah	Try Again 4:03	2000-03-18	4	28
## 38	2000	Aaliyah	I Don't Wanna 4:15	2000-01-29	5	38
## 39	2000	Aaliyah	Try Again 4:03	2000-03-18	5	21
## 46	2000	Aaliyah	I Don't Wanna 4:15	2000-01-29	6	35
## 47	2000	Aaliyah	Try Again 4:03	2000-03-18	6	18
## 54	2000	Aaliyah	I Don't Wanna 4:15	2000-01-29	7	35
## 55	2000	Aaliyah	Try Again 4:03	2000-03-18	7	16
## 62	2000	Aaliyah	I Don't Wanna 4:15	2000-01-29	8	38
## 63	2000	Aaliyah	Try Again 4:03	2000-03-18	8	14
## 70	2000	Aaliyah	I Don't Wanna 4:15	2000-01-29	9	38
## 71	2000	Aaliyah	Try Again 4:03	2000-03-18	9	12
## 78	2000	Aaliyah	I Don't Wanna 4:15	2000-01-29	10	36
## 79	2000	Aaliyah	Try Again 4:03	2000-03-18	10	10
## 86	2000	Aaliyah	I Don't Wanna 4:15	2000-01-29	11	37
## 87	2000	Aaliyah	Try Again 4:03	2000-03-18	11	9
## 94	2000	Aaliyah	I Don't Wanna 4:15	2000-01-29	12	37
## 95	2000	Aaliyah	Try Again 4:03	2000-03-18	12	8
## 102	2000	Aaliyah	I Don't Wanna 4:15	2000-01-29	13	38
## 103	2000	Aaliyah	Try Again 4:03	2000-03-18	13	6
## 110	2000	Aaliyah	I Don't Wanna 4:15	2000-01-29	14	49
## 111	2000	Aaliyah	Try Again 4:03	2000-03-18	14	1
## 118	2000	Aaliyah	I Don't Wanna 4:15	2000-01-29	15	61
## 119	2000	Aaliyah	Try Again 4:03	2000-03-18	15	2
## 126	2000	Aaliyah	I Don't Wanna 4:15	2000-01-29	16	63
## 127	2000	Aaliyah	Try Again 4:03	2000-03-18	16	2
## 134	2000	Aaliyah	I Don't Wanna 4:15	2000-01-29	17	62
## 135	2000	Aaliyah	Try Again 4:03	2000-03-18	17	2
## 142	2000	Aaliyah	I Don't Wanna 4:15	2000-01-29	18	67
## 143	2000	Aaliyah	Try Again 4:03	2000-03-18	18	2
## 150	2000	Aaliyah	I Don't Wanna 4:15	2000-01-29	19	83
## 151	2000	Aaliyah	Try Again 4:03	2000-03-18	19	3
## 158	2000	Aaliyah	I Don't Wanna 4:15	2000-01-29	20	86
## 159	2000	Aaliyah	Try Again 4:03	2000-03-18	20	4
## 167	2000	Aaliyah	Try Again 4:03	2000-03-18	21	5
## 175	2000	Aaliyah	Try Again 4:03	2000-03-18	22	5
## 183	2000	Aaliyah	Try Again 4:03	2000-03-18	23	6
## 191	2000	Aaliyah	Try Again 4:03	2000-03-18	24	9
## 199	2000	Aaliyah	Try Again 4:03	2000-03-18	25	13
## 207	2000	Aaliyah	Try Again 4:03	2000-03-18	26	14
## 215	2000	Aaliyah	Try Again 4:03	2000-03-18	27	16
## 223	2000	Aaliyah	Try Again 4:03	2000-03-18	28	23
## 231	2000	Aaliyah	Try Again 4:03	2000-03-18	29	22

## 239	2000	Aaliyah	Try Again 4:03	2000-03-18	30	33
## 247	2000	Aaliyah	Try Again 4:03	2000-03-18	31	36
## 255	2000	Aaliyah	Try Again 4:03	2000-03-18	32	43
## 8	2000	Adams, Yolanda	Open My Heart 5:30	2000-08-26	1	76
## 16	2000	Adams, Yolanda	Open My Heart 5:30	2000-08-26	2	76
## 24	2000	Adams, Yolanda	Open My Heart 5:30	2000-08-26	3	74
## 32	2000	Adams, Yolanda	Open My Heart 5:30	2000-08-26	4	69
## 40	2000	Adams, Yolanda	Open My Heart 5:30	2000-08-26	5	68
## 48	2000	Adams, Yolanda	Open My Heart 5:30	2000-08-26	6	67
## 56	2000	Adams, Yolanda	Open My Heart 5:30	2000-08-26	7	61
## 64	2000	Adams, Yolanda	Open My Heart 5:30	2000-08-26	8	58
## 72	2000	Adams, Yolanda	Open My Heart 5:30	2000-08-26	9	57
## 80	2000	Adams, Yolanda	Open My Heart 5:30	2000-08-26	10	59
## 88	2000	Adams, Yolanda	Open My Heart 5:30	2000-08-26	11	66
## 96	2000	Adams, Yolanda	Open My Heart 5:30	2000-08-26	12	68
## 104	2000	Adams, Yolanda	Open My Heart 5:30	2000-08-26	13	61
## 112	2000	Adams, Yolanda	Open My Heart 5:30	2000-08-26	14	67
## 120	2000	Adams, Yolanda	Open My Heart 5:30	2000-08-26	15	59
## 128	2000	Adams, Yolanda	Open My Heart 5:30	2000-08-26	16	63
## 136	2000	Adams, Yolanda	Open My Heart 5:30	2000-08-26	17	67
## 144	2000	Adams, Yolanda	Open My Heart 5:30	2000-08-26	18	71
## 152	2000	Adams, Yolanda	Open My Heart 5:30	2000-08-26	19	79
## 160	2000	Adams, Yolanda	Open My Heart 5:30	2000-08-26	20	89