Notas Clase 1

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Introducción a lectura de datos csv, xls y xlsx

• La librería por excelencia para leer archivo de Excel es {readxl}

```
#install.packages("readxl")
library(readxl) # Para leer archivos de Excel
## Warning: package 'readxl' was built under R version 4.4.2
library(dplyr)
##
## Adjuntando el paquete: 'dplyr'
  The following objects are masked from 'package:stats':
##
##
       filter, lag
## The following objects are masked from 'package:base':
       intersect, setdiff, setequal, union
##
library(ggplot2)
library(lubridate) # Sirve para manejar algunas variables de fecha
## Warning: package 'lubridate' was built under R version 4.4.2
##
## Adjuntando el paquete: 'lubridate'
## The following objects are masked from 'package:base':
##
##
       date, intersect, setdiff, union
```

- Empecemos cargando el dataset del archivo "VentasNum2024.xlsx"
- En principio (pero se puede cambiar) este archivo xlsx debe estar en la misma carpeta que este notebook
- La sintaxis básica es la siguiente

```
datos_ventas <- readxl::read_xlsx("./Data/VentasNum2024.xlsx", sheet = "Ventas")
datos_ventas</pre>
```

```
## # A tibble: 2,356 x 18
                       Unidades Ingresos por productos (MX~1 Cargo por venta e im~2
##
      IDVenta
##
      <chr>
                          <dbl>
                                                        <dbl>
                                                                               <dbl>
## 1 2000003804728445
                                                         177
                                                                               -65.3
## 2 2000003804533537
                              1
                                                         177
                                                                               -65.3
## 3 2000003802321913
                                                         281
                                                                               -88.9
                                                         177
                                                                               -65.3
## 4 2000004172052306
                              1
## 5 2000003801421707
                                                         185
                                                                               -83.9
## 6 2000003793601559
                                                         185
                                                                               -67.1
                              1
## 7 2000004169612598
                              1
                                                         166.
                                                                               -62.8
## 8 2000003800676271
                                                         185
                                                                               -67.1
                              1
## 9 2000003800625109
                                                         530.
                                                                              -171.
## 10 2000003799264629
                                                         280.
                                                                               -88.8
## # i 2,346 more rows
## # i abbreviated names: 1: `Ingresos por productos (MXN)`,
       2: `Cargo por venta e impuestos`
## # i 14 more variables: `Costos de envío` <dbl>, `Total (MXN)` <dbl>,
       `Venta por publicidad` <chr>, IDproducto <chr>, `Canal de venta` <chr>,
       `Precio unitario de venta de la publicación (MXN)` <dbl>,
## #
       `Municipio/Alcaldía` <chr>, Estado <chr>, `Código postal` <dbl>, ...
```

• Como siempre nos gusta saber un poquito de la estructura de este objeto (que es un dataframe)

```
datos_ventas |> str() #Pasamos los datos obtenidos a la funcion str()
```

```
## tibble [2,356 x 18] (S3: tbl_df/tbl/data.frame)
## $ IDVenta
                                                      : chr [1:2356] "2000003804728445" "20000038045335
## $ Unidades
                                                      : num [1:2356] 1 1 1 1 1 1 1 1 2 1 ...
## $ Ingresos por productos (MXN)
                                                      : num [1:2356] 177 177 281 177 185 ...
## $ Cargo por venta e impuestos
                                                      : num [1:2356] -65.3 -65.3 -88.9 -65.3 -83.9 ...
## $ Costos de envío
                                                     : num [1:2356] 0 0 0 -98 0 ...
## $ Total (MXN)
                                                     : num [1:2356] 112 112 192 112 101 ...
## $ Venta por publicidad
                                                     : chr [1:2356] "Sí" "Sí" "Sí" "Sí" ...
## $ IDproducto
                                                     : chr [1:2356] "MLM797896213" "MLM797896213" "MLM
## $ Canal de venta
                                                      : chr [1:2356] "Mercado Libre" "Mercado Libre" "M
## $ Precio unitario de venta de la publicación (MXN): num [1:2356] 177 177 281 177 185 ...
## $ Municipio/Alcaldía
                                                      : chr [1:2356] "Nezahualcoyotl" "Tultepec" "Villa
## $ Estado
                                                      : chr [1:2356] "Estado De México" "Estado De Méxi
## $ Código postal
                                                      : num [1:2356] 57000 54980 28989 91020 58350 ...
## $ Forma de entrega
                                                      : chr [1:2356] "Mercado Envíos Full" "Mercado Env
## $ Transportista
                                                      : chr [1:2356] "Mercado Envios" "Mercado Envios"
                                                      : chr [1:2356] "08/09/2022" "08/09/2022" "07/09/2
## $ Fecha Venta
## $ FechaCamino
                                                      : POSIXct[1:2356], format: "2022-09-09" "2022-09-
                                                      : POSIXct[1:2356], format: "2022-09-09" "2022-09-
## $ FechaEntrega
```

• Otra forma de entender un poco más a profundidad lo que contiene ese dataframe es mediante la función skim() de la librería {skimr}

#install.packages("skimr") library(skimr)

Warning: package 'skimr' was built under R version 4.4.2

• Aplico la función skim a mi dataframe

 $skim(datos_ventas)$ # Funcion en R para resumir y explorar datos de una manera mas rapida y estructurada

Table 1: Data summary

Name	datos ventas
Number of rows	2356
Number of columns	18
Column type frequency:	
character	9
numeric	7
POSIXct	2
Group variables	None

Variable type: character

skim_variable	$n_{missing}$	$complete_rate$	\min	max	empty	n_unique	whitespace
IDVenta	0	1	10	16	0	2356	0
Venta por publicidad	0	1	2	2	0	2	0
IDproducto	0	1	12	13	0	36	0
Canal de venta	0	1	13	13	0	2	0
Municipio/Alcaldía	0	1	4	36	0	494	0
Estado	0	1	6	19	0	32	0
Forma de entrega	0	1	19	27	0	2	0
Transportista	0	1	3	14	0	5	0
Fecha Venta	0	1	10	10	0	354	0

Variable type: numeric

skim_variable	n_missi ng m	nplete_	raten	sd	p0	p25	p50	p75	p100	hist
Unidades	0	1	1.30	0.65	1.00	1.00	1.0	1.00	8.00	
Ingresos por productos (MXN)	0	1	260.52	151.90	85.69	166.25	185.0	315.00	2475.00	
Cargo por venta e	0	1	-	71.52	-	-	-	-	_	
impuestos			92.28		2277.88	8 117.03	67.1	62.84	11.18	
Costos de envío	0	1	-	47.99	-	_	0.0	0.00	0.00	
			40.25		512.50	94.00				
Total (MXN)	0	1	162.99	108.69	1402.88	103.41 8	117.9	202.87	1399.22	

skim_variable	n_	_missi rg mplete_	_raean	sd	p0	p25	p50	p75	p100	hist
Precio unitario de venta de la publicación (MXN)		0 1	206.09	97.60	85.69	166.25	175.0	185.00	887.25	
Código postal		0 1	52221.	6 3 25713.	411080.00	32971.0	3 4005.	073932.7	79 9904.0	00

Variable type: POSIXct

skim_variable	n_missing	complete_rate	min	max	median	n_unique
FechaCamino	0	1	2021-01-01	2022-09-09	2022-01-28	357
FechaEntrega	0	1	2021-01-02	2022-09-09	2022 - 01 - 28	352

• ¿Oye y cómo extraemos esta metadatos (i.e. datos de los datos)?

```
mi_metadata <- skim(datos_ventas) #generamos un resumen estructurado de nuestros datos
```

```
mi_metadata |> str()
```

```
## skim_df [18 x 21] (S3: skim_df/tbl_df/tbl/data.frame)
   $ skim_type
                          : chr [1:18] "POSIXct" "POSIXct" "character" "character" ...
## $ skim_variable
                          : chr [1:18] "FechaCamino" "FechaEntrega" "IDVenta" "Venta por publicidad" ...
## $ n_missing
                          : int [1:18] 0 0 0 0 0 0 0 0 0 0 ...
                          : num [1:18] 1 1 1 1 1 1 1 1 1 1 ...
## $ complete_rate
## $ POSIXct.min
                         : POSIXct[1:18], format: "2021-01-01" "2021-01-02" ...
## $ POSIXct.max
                         : POSIXct[1:18], format: "2022-09-09" "2022-09-09" ...
                        : POSIXct[1:18], format: "2022-01-28" "2022-01-28" ...
## $ POSIXct.median
##
   $ POSIXct.n_unique
                         : int [1:18] 357 352 NA NA NA NA NA NA NA NA NA ...
## $ character.min
                          : int [1:18] NA NA 10 2 12 13 4 6 19 3 ...
## $ character.max
                          : int [1:18] NA NA 16 2 13 13 36 19 27 14 ...
## $ character.empty
                          : int [1:18] NA NA 0 0 0 0 0 0 0 ...
   $ character.n_unique : int [1:18] NA NA 2356 2 36 2 494 32 2 5 ...
## $ character.whitespace: int [1:18] NA NA 0 0 0 0 0 0 0 ...
## $ numeric.mean
                          : num [1:18] NA ...
## $ numeric.sd
                          : num [1:18] NA ...
                         : num [1:18] NA ...
##
   $ numeric.p0
## $ numeric.p25
                         : num [1:18] NA ...
## $ numeric.p50
                          : num [1:18] NA ...
## $ numeric.p75
                          : num [1:18] NA ...
## $ numeric.p100
                          : num [1:18] NA ...
## $ numeric.hist
                          : chr [1:18] NA NA NA NA ...
   - attr(*, "data_rows")= int 2356
   - attr(*, "data_cols")= int 18
##
   - attr(*, "df_name")= chr "`datos_ventas`"
##
   - attr(*, "dt_key")= logi NA
   - attr(*, "groups")= chr(0)
   - attr(*, "base_skimmers")= chr [1:2] "n_missing" "complete_rate"
   - attr(*, "skimmers_used")=List of 3
     ...$ character: chr [1:5] "min" "max" "empty" "n_unique" ...
     ..$ numeric : chr [1:8] "mean" "sd" "p0" "p25" ...
##
     ..$ POSIXct : chr [1:4] "min" "max" "median" "n_unique"
```

• Por ejemplo,

mi_metadata\$skim_type

```
## [1] "POSIXct" "POSIXct" "character" "character" "character" "character"
## [7] "character" "character" "character" "character" "numeric"
## [13] "numeric" "numeric" "numeric" "numeric" "numeric" "numeric"
```

• Este archivo "VentasNum2024.xlsx" tiene otra pestaña que se llama "Producto"

```
datos_productos <- readxl::read_xlsx("./Data/VentasNum2024.xlsx", sheet = "Producto")
datos_productos</pre>
```

```
## # A tibble: 2,357 x 2
##
      IDproducto
                  `Título de la publicación`
##
      <chr>
##
  1 MLM797896213 Carpeta Billetes Y Monedas De 5, 10, 40 Pesos Conmemorativos
   2 MLM797896213 Carpeta Billetes Y Monedas De 5, 10, 40 Pesos
                                                                  Conmemorativos
  3 MLM937274388 Paquete 20 Sobres Para Billetes Y Monedas Más Cartones 2x2
  4 MLM797896213 Carpeta Billetes Y Monedas De 5, 10, 40 Pesos
                                                                  Conmemorativos
## 5 MLM797896213 Carpeta Billetes Y Monedas De 5, 10, 40 Pesos
                                                                  Conmemorativos
## 6 MLM797896213 Carpeta Billetes Y Monedas De 5, 10, 40 Pesos
                                                                  Conmemorativos
## 7 MLM775876787 Carpeta Monedas 5 Pesos Del Centenario Y Bicentenario
## 8 MLM797896213 Carpeta Billetes Y Monedas De 5, 10, 40 Pesos Conmemorativos
## 9 MLM759252135 Monedas 40 Pesos Conmemorativa, No Circuladas, Con Cápsula
## 10 MLM937274388 Paquete 20 Sobres Para Billetes Y Monedas Más Cartones 2x2
## # i 2,347 more rows
```

• Regresemos a nuestro dataset de ventas

datos_ventas |> head()

```
## # A tibble: 6 x 18
##
     IDVenta
                      Unidades Ingresos por productos (MXN~1 Cargo por venta e im~2
##
     <chr>
                                                         <dbl>
                                                                                 <dbl>
                                                                                 -65.3
## 1 2000003804728445
                              1
                                                           177
## 2 2000003804533537
                              1
                                                           177
                                                                                 -65.3
## 3 2000003802321913
                              1
                                                           281
                                                                                 -88.9
## 4 2000004172052306
                                                                                 -65.3
                              1
                                                           177
## 5 2000003801421707
                              1
                                                                                 -83.9
                                                           185
## 6 2000003793601559
                                                           185
                                                                                 -67.1
                              1
## # i abbreviated names: 1: `Ingresos por productos (MXN)`,
       2: `Cargo por venta e impuestos`
## # i 14 more variables: `Costos de envío` <dbl>, `Total (MXN)` <dbl>,
       `Venta por publicidad` <chr>, IDproducto <chr>, `Canal de venta` <chr>,
## #
       `Precio unitario de venta de la publicación (MXN)` <dbl>,
       `Municipio/Alcaldía` <chr>, Estado <chr>, `Código postal` <dbl>,
## #
       `Forma de entrega` <chr>, Transportista <chr>, `Fecha Venta` <chr>, ...
```

- Al parecer la columna Fecha Venta esta codificada como string, aunque nos huele a que querían expresar fechas allí... Vamos a arreglarla un poquito
- ¿Qué voy a hacer?

- 1. Convertir la columna a formato fecha
- 2. Extraer su día, su mes y año

```
datos_ventas %>%
  mutate(`Fecha Venta` = as.Date(`Fecha Venta`, format = "%d/%m/%Y")) %>% #Cambia el formato de String
  mutate(MesVenta = lubridate::month(`Fecha Venta`), #Extrae el mes de la venta usando el paquete lubri
         DiaVenta = lubridate::day(`Fecha Venta`), #Extrae el dia de la venta
         DiaSemana = lubridate::wday(`Fecha Venta`)) # 1: lunes, 2: martes, 3:miercoles...
## # A tibble: 2,356 x 21
##
      IDVenta
                       Unidades Ingresos por productos (MX~1 Cargo por venta e im~2
##
      <chr>
                                                        <dbl>
   1 2000003804728445
                                                                                -65.3
##
                                                         177
                              1
   2 2000003804533537
                              1
                                                         177
                                                                                -65.3
   3 2000003802321913
##
                                                         281
                                                                                -88.9
                              1
##
   4 2000004172052306
                                                         177
                                                                                -65.3
##
  5 2000003801421707
                              1
                                                         185
                                                                                -83.9
  6 2000003793601559
                              1
                                                         185
                                                                                -67.1
  7 2000004169612598
                                                         166.
                                                                                -62.8
##
                              1
   8 2000003800676271
                              1
                                                         185
                                                                                -67.1
## 9 2000003800625109
                              2
                                                         530.
                                                                               -171.
## 10 2000003799264629
                              1
                                                         280.
                                                                                -88.8
## # i 2,346 more rows
## # i abbreviated names: 1: `Ingresos por productos (MXN)`,
       2: `Cargo por venta e impuestos`
## # i 17 more variables: `Costos de envío` <dbl>, `Total (MXN)` <dbl>,
       `Venta por publicidad` <chr>, IDproducto <chr>, `Canal de venta` <chr>,
## #
       `Precio unitario de venta de la publicación (MXN)` <dbl>,
## #
## #
       `Municipio/Alcaldía` <chr>, Estado <chr>, `Código postal` <dbl>, ...
```

- Fecha Venta ahora tiene formato date y creamos 3 nuevas columnas
- Vamos a guardar estos cambios

```
datos_ventas |> head()
```

```
## # A tibble: 6 x 21
##
     IDVenta
                       Unidades Ingresos por productos (MXN~1 Cargo por venta e im~2
##
     <chr>
                          <dbl>
                                                          <dbl>
                                                                                  <dbl>
## 1 2000003804728445
                              1
                                                            177
                                                                                   -65.3
## 2 2000003804533537
                              1
                                                            177
                                                                                  -65.3
## 3 2000003802321913
                              1
                                                            281
                                                                                  -88.9
## 4 2000004172052306
                                                                                  -65.3
                              1
                                                            177
## 5 2000003801421707
                              1
                                                            185
                                                                                  -83.9
## 6 2000003793601559
                              1
                                                            185
                                                                                  -67.1
## # i abbreviated names: 1: `Ingresos por productos (MXN)`,
```

```
## # 2: `Cargo por venta e impuestos`
## # i 17 more variables: `Costos de envío` <dbl>, `Total (MXN)` <dbl>,
## # Venta por publicidad` <chr>, IDproducto <chr>, `Canal de venta` <chr>,
## # Precio unitario de venta de la publicación (MXN)` <dbl>,
## # Municipio/Alcaldía` <chr>, Estado <chr>, `Código postal` <dbl>,
## # Forma de entrega` <chr>, Transportista <chr>, `Fecha Venta` <date>, ...
```

• Las variables Fecha VEnta, Fecha
Camino y Fecha
Entrega representan fechas, PEEEERO están codificadas en diferente formato. Vamos a homogene
izarlas

```
##
      IDVenta
                       Unidades Ingresos por productos (MX~1 Cargo por venta e im~2
##
      <chr>
                                                        <dbl>
                                                                                <dbl>
  1 2000003804728445
                                                         177
                                                                                -65.3
##
                              1
##
   2 2000003804533537
                                                         177
                                                                                -65.3
##
  3 2000003802321913
                              1
                                                         281
                                                                                -88.9
## 4 2000004172052306
                              1
                                                         177
                                                                                -65.3
## 5 2000003801421707
                                                                                -83.9
                                                         185
                              1
## 6 2000003793601559
                                                         185
                              1
                                                                                -67.1
## 7 2000004169612598
                                                         166.
                                                                                -62.8
                              1
## 8 2000003800676271
                              1
                                                         185
                                                                                -67.1
## 9 2000003800625109
                              2
                                                         530.
                                                                               -171.
## 10 2000003799264629
                              1
                                                         280.
                                                                                -88.8
## # i 2,346 more rows
## # i abbreviated names: 1: `Ingresos por productos (MXN)`,
       2: `Cargo por venta e impuestos`
## # i 19 more variables: `Costos de envío` <dbl>, `Total (MXN)` <dbl>,
       `Venta por publicidad` <chr>, IDproducto <chr>, `Canal de venta` <chr>,
       `Precio unitario de venta de la publicación (MXN)` <dbl>,
## #
       `Municipio/Alcaldía` <chr>, Estado <chr>, `Código postal` <dbl>, ...
## #
```

- Ya por fin Fecha Venta, FecEntrg y 'FecSalida tiene formato date
- Vamos a construir tres nuevas columnas (i.e. 3 nuevas variables)

```
## # A tibble: 2,356 x 26
      IDVenta
##
                       Unidades Ingresos por productos (MX~1 Cargo por venta e im~2
##
      <chr>
                          <dbl>
                                                        <dbl>
                                                                                <dbl>
## 1 2000003804728445
                                                                                -65.3
                               1
                                                          177
## 2 2000003804533537
                               1
                                                          177
                                                                                -65.3
## 3 2000003802321913
                               1
                                                          281
                                                                                -88.9
```

```
4 2000004172052306
                                                          177
                                                                                 -65.3
##
   5 2000003801421707
                                                          185
                                                                                 -83.9
                               1
##
   6 2000003793601559
                               1
                                                          185
                                                                                 -67.1
  7 2000004169612598
                               1
                                                          166.
                                                                                 -62.8
##
    8 2000003800676271
                               1
                                                          185
                                                                                 -67.1
  9 2000003800625109
                               2
##
                                                          530.
                                                                                -171.
## 10 2000003799264629
                                                                                 -88.8
                                                          280.
## # i 2,346 more rows
## # i abbreviated names: 1: `Ingresos por productos (MXN)`,
       2: `Cargo por venta e impuestos`
## # i 22 more variables: `Costos de envío` <dbl>, `Total (MXN)` <dbl>,
       `Venta por publicidad` <chr>, IDproducto <chr>, `Canal de venta` <chr>,
## #
       `Precio unitario de venta de la publicación (MXN)` <dbl>,
## #
       `Municipio/Alcaldía` <chr>, Estado <chr>, `Código postal` <dbl>, ...
## #
```

• Vamos a ver alguna grafiquita

##Repaso de Tidyverse

¿Para qué sirve group_by() en Tidyverse? La función group_by() en Tidyverse se usa para agrupar datos en función de una o más variables antes de aplicar operaciones de resumen, transformación o filtrado. Es especialmente útil cuando se combina con funciones como summarize(), mutate(), filter(), entre otras.

- Agrupa filas según valores de una columna sin alterar los datos visibles.
- Permite realizar cálculos dentro de cada grupo sin afectar a todo el data frame.
- Debe combinarse con otras funciones como summarize(), mutate(), filter(), etc.
- Los resultados mantienen la estructura del grupo hasta que se desagrupan (ungroup()).

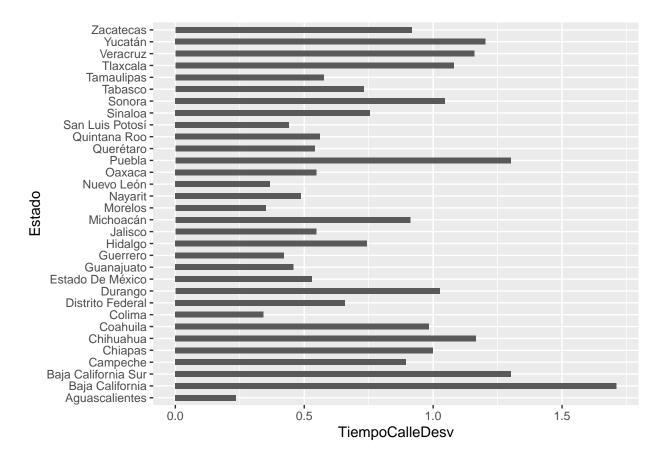
La función summarize() (o su sinónimo summarise()) en Tidyverse se usa para agregar o resumir datos en un data frame, calculando métricas estadísticas como promedios, sumas, conteos, valores máximos o mínimos, entre otros.

Funciones útiles con summarize()

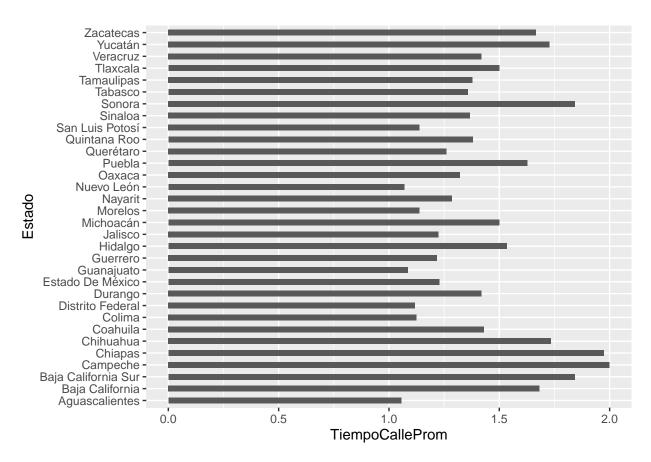
- $mean(x) \rightarrow Media (promedio)$
- $sum(x) \rightarrow Suma$
- $n() \rightarrow Conteo de elementos en un grupo$
- $\min(x) \rightarrow Valor mínimo$
- $\max(x) \rightarrow \text{Valor máximo}$
- $\operatorname{sd}(x) \to \operatorname{Desviación}$ estándar
- $median(x) \rightarrow Mediana$
- first(x), $last(x) \rightarrow Primer o último valor de una columna$

```
## # A tibble: 32 x 5
## Estado TiempoCalleMed TiempoCalleProm TiempoCalleDesv TiempoCalleMax
```

```
<drtn>
                                                                <dbl> <drtn>
##
      <chr>
                      <drtn>
##
   1 Aguascalientes 1 days
                                     1.055556 days
                                                                0.236 2 days
   2 Baja California 1 days
                                     1.682540 days
##
                                                                1.71 11 days
## 3 Baja Californi~ 1 days
                                     1.842105 days
                                                                1.30
                                                                       5 days
   4 Campeche
##
                      2 days
                                     2.000000 days
                                                                0.894 4 days
##
  5 Chiapas
                      2 days
                                     1.973684 days
                                                                1.00
                                                                       6 days
   6 Chihuahua
                      1 days
                                     1.734043 days
                                                                1.17
                                                                       9 days
   7 Coahuila
                      1 days
                                     1.430769 days
                                                                0.984
                                                                       8 days
##
##
   8 Colima
                      1 days
                                     1.125000 days
                                                                0.342
                                                                       2 days
## 9 Distrito Feder~ 1 days
                                     1.117647 days
                                                                0.659
                                                                       6 days
## 10 Durango
                      1 days
                                     1.419355 days
                                                                1.03
                                                                       5 days
## # i 22 more rows
```



Don't know how to automatically pick scale for object of type <difftime>.
Defaulting to continuous.



Explicacion de la grafica

- stat = "identity": Indica que los valores de TiempoCalleDesv se usarán tal cual (sin hacer conteos automáticos).
- width = 0.5: Ajusta el ancho de las barras (más delgado que el valor por defecto, que es 1).

Otro repaso de Dyplr

¿Cuándo se debe usar dplyr:: y cuándo no?

- Cuando NO es necesario usar dplyr::
- Si ya cargaste dplyr con library(dplyr), puedes usar las funciones directamente:

¿Cuándo SÍ debes usar dplyr::?

Debes especificar dplyr:: cuando:

- NO has cargado dplyr con library(dplyr) y solo quieres usar algunas de sus funciones sin afectar otras librerías.
- Hay conflictos con funciones de otros paquetes.
- Otro formato popular es el csv (valores separados por comas comma separate values)
- La librería por excelencia para leer este tipo de archivos es {readr}

¿Por qué usar dplyr:: a veces en filter() pero no en group_by()?

- El problema principal ocurre con filter(), ya que hay una función filter() en el paquete stats, lo que puede generar confusión en ciertos casos.
- Si R no sabe cuál filter() usar, podría lanzar un error o elegir la opción equivocada.

Por eso, en tu código original ves esto:

```
dplyr::filter(TiempoCalle > 0)
```

Para asegurarte de que R usa el filter() de dplyr, y no el de stats.

```
data_superstore |> head()
```

```
## # A tibble: 6 x 21
##
     `Row ID` `Order ID`
                             `Order Date` `Ship Date` `Ship Mode`
                                                                      `Customer ID`
##
        <dbl> <chr>
                             <chr>
                                          <chr>
                                                      <chr>
                                                                      <chr>
                                          11/11/2016 Second Class
## 1
           1 CA-2016-152156 11/8/2016
                                                                      CG-12520
           2 CA-2016-152156 11/8/2016
                                          11/11/2016 Second Class
                                                                      CG-12520
                                                      Second Class
## 3
           3 CA-2016-138688 6/12/2016
                                          6/16/2016
                                                                     DV-13045
## 4
            4 US-2015-108966 10/11/2015
                                          10/18/2015 Standard Class SO-20335
## 5
            5 US-2015-108966 10/11/2015
                                          10/18/2015 Standard Class S0-20335
           6 CA-2014-115812 6/9/2014
                                          6/14/2014
                                                      Standard Class BH-11710
## # i 15 more variables: `Customer Name` <chr>, Segment <chr>, Country <chr>,
```

```
## # Profit <dbl>
data_superstore |> skim()

## Warning: There was 1 warning in `dplyr::summarize()`.
## i In argument: `dplyr::across(tidyselect::any_of(variable_names),
## mangled_skimmers$funs)`.
## i In group 0: .
## Caused by warning:
## ! There were 377 warnings in `dplyr::summarize()`.
## The first warning was:
## i In argument: `dplyr::across(tidyselect::any_of(variable_names),
## mangled_skimmers$funs)`.
## Caused by warning in `grepl()`:
## ! unable to translate 'Roy Franz<f6>sisch' to a wide string
## i Run `dplyr::last_dplyr_warnings()` to see the 376 remaining warnings.
```

City <chr>, State <chr>, `Postal Code` <chr>, Region <chr>,
`Product ID` <chr>, Category <chr>, `Sub-Category` <chr>,

`Product Name` <chr>, Sales <dbl>, Quantity <dbl>, Discount <dbl>,

Table 5: Data summary

Name	data_superstore
Number of rows	9994
Number of columns	21
Column type frequency:	
character	16
numeric	5
Group variables	None

Variable type: character

#

skim_variable	$n_{missing}$	$complete_rate$	min	max	empty	n_unique	whitespace
Order ID	0	1	14	14	0	5009	0
Order Date	0	1	8	10	0	1237	0
Ship Date	0	1	8	10	0	1334	0
Ship Mode	0	1	8	14	0	4	0
Customer ID	0	1	8	8	0	793	0
Customer Name	0	1	7	22	0	793	0
Segment	0	1	8	11	0	3	0
Country	0	1	13	13	0	1	0
City	0	1	4	17	0	531	0
State	0	1	4	20	0	49	0
Postal Code	0	1	4	5	0	631	0
Region	0	1	4	7	0	4	0
Product ID	0	1	15	15	0	1862	0
Category	0	1	9	15	0	3	0
Sub-Category	0	1	3	11	0	17	0

skim_variable	$n_{missing}$	$complete_rate$	min	max	empty	n_unique	whitespace
Product Name	0	1	5	127	0	1850	0

Variable type: numeric

skim_variablen	_missing comp	lete_ra	temean	sd	p0	p25	p50	p75	p100	hist
Row ID	0	1	4997.50	2885.16	1.00	2499.25	4997.50	7495.75	9994.00	
Sales	0	1	229.86	623.25	0.44	17.28	54.49	209.94	22638.48	
Quantity	0	1	3.79	2.23	1.00	2.00	3.00	5.00	14.00	
Discount	0	1	0.16	0.21	0.00	0.00	0.20	0.20	0.80	
Profit	0	1	28.66	234.26	-	1.73	8.67	29.36	8399.98	
					6599.98					

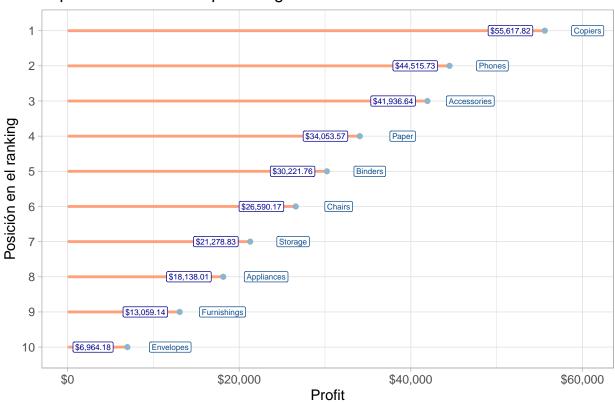
```
datos_top_10 <- data_superstore %>% dplyr::select(`Sub-Category`, Profit) %>% #Se pone en comillas inve
group_by(`Sub-Category`) %>%
summarise(ganancia = sum(Profit)) %>%
ungroup() %>%
top_n(10, wt = ganancia) %>% # obtengo el top 10 de profit por sub-categoría ---- arrange(desc(gananciarrange(desc(ganancia)) %>% # las ordeno de mayor a menor
mutate(ranking = 10:1) # creo una nueva columna del 10 al 1

datos_top_10
```

```
## # A tibble: 10 x 3
     `Sub-Category` ganancia ranking
##
##
     <chr>
                     <dbl> <int>
## 1 Copiers
                   55618.
                               10
## 2 Phones
                    44516.
                                 9
## 3 Accessories
                   41937.
                                 8
## 4 Paper
                                 7
                    34054.
## 5 Binders
                   30222.
                                 6
## 6 Chairs
                    26590.
                                 5
## 7 Storage
                     21279.
                                 4
                                 3
## 8 Appliances
                    18138.
## 9 Furnishings
                    13059.
                                 2
## 10 Envelopes
                     6964.
```

```
theme_light() +
xlab("Profit") + ylab("Posición en el ranking") +
ggtitle("Top 10 más rentables por categoría")
```

Top 10 más rentables por categoría



+ Ahora quiero ver quienes son mis mejores 10 clientes

```
data_superstore %>% dplyr::select(`Customer Name`, Profit) %>%
  group by(`Customer Name`) %>%
  summarise(ganancia = sum(Profit)) %>%
  ungroup() %>%
  top_n(10, wt = ganancia) %>%
  arrange(desc(ganancia)) %>%
  mutate(ranking = 10:1) %>%
  ggplot() +
  geom_segment(aes(x = 0, y = ranking, xend = ganancia, yend = ranking),
               linewidth = 1, color = "lightsalmon") +
  geom_point(aes(y = ranking, x = ganancia), color = "lightskyblue3") +
  geom_label(aes(y = ranking, x = ganancia + 1000,
                 label = 'Customer Name'),
             color = "dodgerblue4", size = 4) +
  geom_label(aes(y = ranking, x = ganancia - 1000,
                 label = scales::dollar(round(as.numeric(ganancia), 2))),
             color = "blue4", size = 4) +
  scale_y_discrete(limits=factor(10:1)) +
  scale x continuous(labels = scales::dollar) +
  theme_light() +
```

```
xlab("Profit") + ylab("Posición en el ranking") +
ggtitle("Los 10 clientes más rentables")
```

Los 10 clientes más rentables



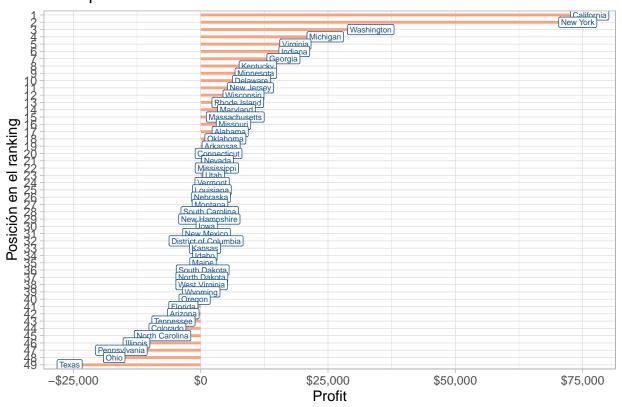
```
datos_por_estado <- data_superstore %>% dplyr::select(State, Profit) %>%
  group_by(State) %>%
  summarise(ganancia = sum(Profit)) %>%
  ungroup() %>%
  arrange(desc(ganancia))

datos_por_estado |> tail()
```

```
## # A tibble: 6 x 2
     State
                    ganancia
                        <dbl>
##
     <chr>>
## 1 Colorado
                       -6528.
## 2 North Carolina
                       -7491.
## 3 Illinois
                      -12608.
## 4 Pennsylvania
                      -15560.
## 5 Ohio
                      -16971.
## 6 Texas
                      -25729.
```

```
n <- nrow(datos_por_estado)
datos_por_estado %>% mutate(ranking = n:1) %>%
```

Profit por estado



+ El último formato clásico que nos falta es el xls

```
data_superstore <- readxl::read_xls("./Data/Sample - Superstore.xls")

## Warning: Coercing text to numeric in L2236 / R2236C12: '05408'

## Warning: Coercing text to numeric in L5276 / R5276C12: '05408'

## Warning: Coercing text to numeric in L8800 / R8800C12: '05408'

## Warning: Coercing text to numeric in L9148 / R9148C12: '05408'</pre>
```

```
## Warning: Coercing text to numeric in L9149 / R9149C12: '05408'
## Warning: Coercing text to numeric in L9150 / R9150C12: '05408'
## Warning: Coercing text to numeric in L9388 / R9388C12: '05408'
## Warning: Coercing text to numeric in L9389 / R9389C12: '05408'
## Warning: Coercing text to numeric in L9390 / R9390C12: '05408'
## Warning: Coercing text to numeric in L9391 / R9391C12: '05408'
## Warning: Coercing text to numeric in L9743 / R9743C12: '05408'
data superstore |> head()
## # A tibble: 6 x 21
##
     `Row ID` `Order ID`
                              `Order Date`
                                                  `Ship Date`
                                                                      `Ship Mode`
##
        <dbl> <chr>
                             <dttm>
                                                  <dttm>
                                                                       <chr>
## 1
            1 CA-2016-152156 2016-11-08 00:00:00 2016-11-11 00:00:00 Second Class
            2 CA-2016-152156 2016-11-08 00:00:00 2016-11-11 00:00:00 Second Class
## 2
## 3
            3 CA-2016-138688 2016-06-12 00:00:00 2016-06-16 00:00:00 Second Class
            4 US-2015-108966 2015-10-11 00:00:00 2015-10-18 00:00:00 Standard Class
## 4
            5 US-2015-108966 2015-10-11 00:00:00 2015-10-18 00:00:00 Standard Class
## 5
            6 CA-2014-115812 2014-06-09 00:00:00 2014-06-14 00:00:00 Standard Class
## # i 16 more variables: `Customer ID` <chr>, `Customer Name` <chr>,
       Segment <chr>, Country <chr>, City <chr>, State <chr>, `Postal Code` <dbl>,
       Region <chr>, `Product ID` <chr>, Category <chr>, `Sub-Category` <chr>,
## #
      `Product Name` <chr>, Sales <dbl>, Quantity <dbl>, Discount <dbl>,
## #
       Profit <dbl>
  • Otra librería popular (además de {skimr}) para analizar rápidamente la composición de nuestro dataset
    es {inspectdf}
library(inspectdf) #Libreria que muestra la cantidad de variables numericas, categoricas, etc en un da
## Warning: package 'inspectdf' was built under R version 4.4.2
  • ¿Cuántos na's tiene esta tabla?
inspect_na(data_superstore)
## # A tibble: 21 x 3
##
      col_name
                      cnt pcnt
##
      <chr>
                    <int> <dbl>
## 1 Row ID
                        Ω
## 2 Order ID
                        0
                              0
```

0

0

0

0

0

3 Order Date

4 Ship Date

5 Ship Mode

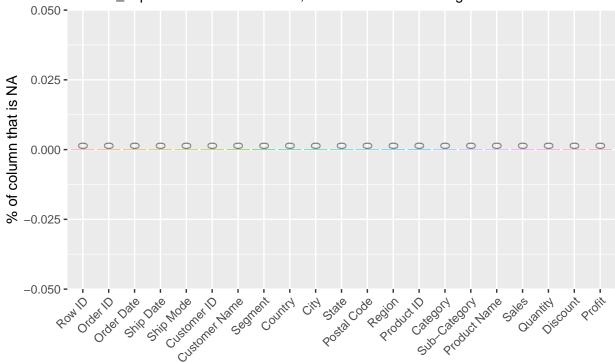
```
## 6 Customer ID 0 0
## 7 Customer Name 0 0
## 8 Segment 0 0
## 9 Country 0 0
## 10 City 0 0
## # i 11 more rows
```

• También podría ver una grafiquita

```
data_superstore |> inspect_na() |> show_plot()
```

Prevalence of NAs in df::data_superstore

df::data_superstore has 21 columns, of which 0 have missing values



• ¿Dime qué pasa con las variables categóricas?

data_superstore |> inspect_cat()

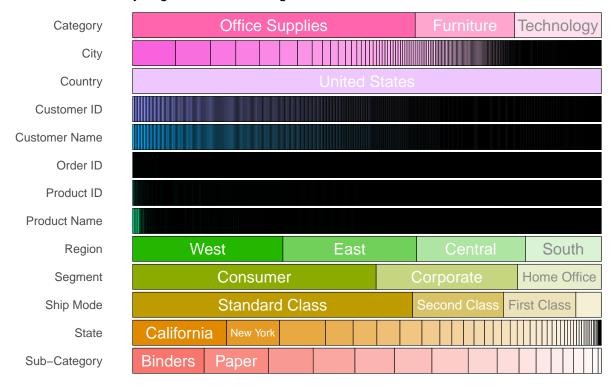
```
## # A tibble: 13 x 5
##
      col_name
                      cnt common
                                           common_pcnt levels
##
      <chr>
                    <int> <chr>
                                                 <dbl> <named list>
   1 Category
                        3 Office Supplies
                                                       <tibble [3 x 3]>
                      531 New York City
                                                9.16 <tibble [531 x 3]>
##
   2 City
##
   3 Country
                        1 United States
                                               100
                                                       <tibble [1 \times 3]>
                      793 WB-21850
                                                 0.370 < tibble [793 x 3] >
   4 Customer ID
   5 Customer Name 793 William Brown
                                                 0.370 < tibble [793 x 3] >
  6 Order ID
                     5009 CA-2017-100111
                                                 0.140 < tibble [5,009 x 3] >
##
```

```
## 7 Product ID 1862 OFF-PA-10001970
                                             0.190 <tibble [1,862 x 3]>
                                             0.480 <tibble [1,850 x 3]>
## 8 Product Name 1850 Staple envelope
## 9 Region
                      4 West
                                             32.0
                                                    <tibble [4 \times 3]>
                                                    <tibble [3 x 3]>
## 10 Segment
                       3 Consumer
                                             51.9
## 11 Ship Mode
                                             59.7
                                                    <tibble [4 x 3]>
                      4 Standard Class
## 12 State
                      49 California
                                             20.0
                                                    <tibble [49 x 3]>
                                                    <tibble [17 x 3]>
## 13 Sub-Category
                      17 Binders
                                             15.2
```

• Podemos ver una gráfica sencilla

```
data_superstore |> inspect_cat() |> show_plot()
```

Frequency of categorical levels in df::data_superstore Gray segments are missing values

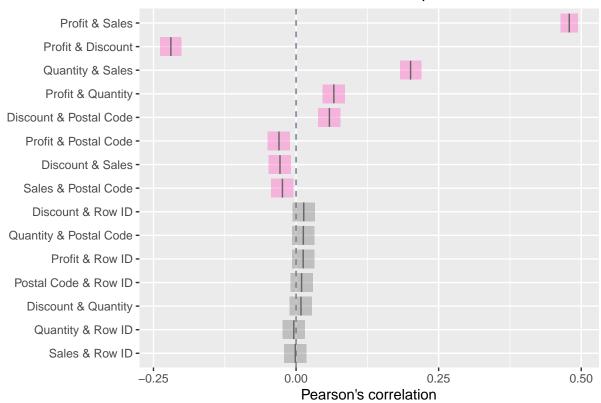


+ Muestrame la correlación entre las variables numéricas

```
data_superstore |> inspect_cor() |> show_plot()
```

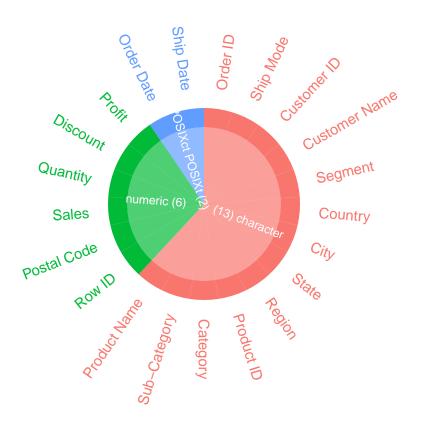
Warning: Columns with O variance found: Discount

Correlation of columns in df::data_superstore



data_superstore |> inspect_types()

data_superstore |> inspect_types() |> show_plot()

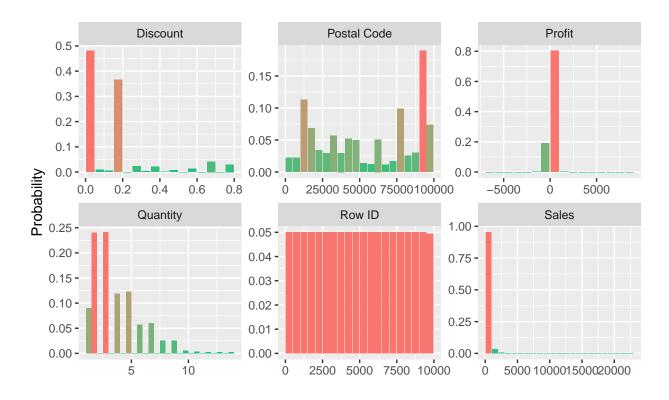


data_superstore |> inspect_num()

```
## # A tibble: 6 x 10
##
     col_name
                       min
                                  q1 median
                                                mean
                                                                           sd pcnt_na
                                                           q3
                                                                  max
##
     <chr>
                                       <dbl>
                     <dbl>
                               <dbl>
                                               <dbl>
                                                        <dbl>
                                                                <dbl>
                                                                        <dbl>
                                                                                 <dbl>
                             2499.
                                     5.00e+3 5.00e+3 7496.
                                                                      2.89e+3
## 1 Row ID
                     1
                                                               9994
## 2 Postal Code 1040
                            23223
                                     5.64e+4 5.52e+4 90008
                                                              99301
                                                                      3.21e+4
                                                                                     0
## 3 Sales
                     0.444
                               17.3
                                     5.45e+1 2.30e+2
                                                        210.
                                                              22638.
                                                                      6.23e+2
                                                                                     0
## 4 Quantity
                                2
                                     3
                                         e+0 3.79e+0
                                                          5
                                                                 14
                                                                      2.23e+0
                                                                                     0
                     1
                                     2
## 5 Discount
                     0
                                0
                                         e-1 1.56e-1
                                                          0.2
                                                                  0.8 2.06e-1
                                                                                     0
                                                                                     0
## 6 Profit
                 -6600.
                                1.73 8.67e+0 2.87e+1
                                                         29.4 8400.
                                                                      2.34e+2
## # i 1 more variable: hist <named list>
```

data_superstore |> inspect_num() |> show_plot()

Histograms of numeric columns in df::data_superstore



Libreria Maps

La librería maps en R se utiliza para trazar mapas geográficos básicos de diferentes regiones del mundo, incluyendo países, estados y condados. Es útil para visualizar datos espaciales de manera sencilla.

```
library(maps)

## Warning: package 'maps' was built under R version 4.4.2

data_por_estado <- data_superstore %>% dplyr::select(State, Profit) %>%
    group_by(State) %>%
    summarise(ganancia = sum(Profit)) %>%
    ungroup() %>%
    mutate(region = tolower(State))

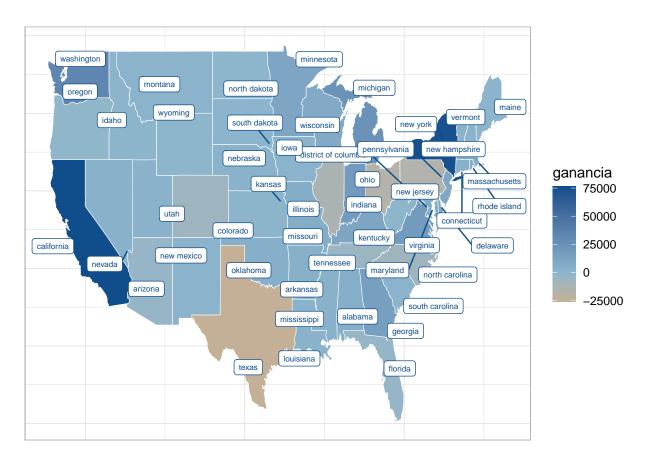
MainStates <- map_data("state")

data_por_estado <- data_por_estado %>% inner_join(MainStates, by = "region")

df_para_etiquetas <- MainStates %>% group_by(region) %>%
    summarise(long = median(long), lat = median(lat))

data_por_estado %>% ggplot() +
```

Warning: ggrepel: 1 unlabeled data points (too many overlaps). Consider
increasing max.overlaps



Bases de datos más estructuradas

```
library(DBI)
library(dbplyr)
```

##

```
## Adjuntando el paquete: 'dbplyr'

## The following objects are masked from 'package:dplyr':

##
## ident, sql

library(RSQLite)

## Warning: package 'RSQLite' was built under R version 4.4.2

library(Lahman)
```

Warning: package 'Lahman' was built under R version 4.4.2

- SQLite es un sistema de administración de bases de datos relacionales (RDBMS, Relational Database Management System)
- Es ligero, serverless (sin servidor), self-contained (autónomo) e integrado (embedded)

Se utiliza para el almacenamiento local de datos en aplicaciones, prototipos y proyectos pequeños o medianos

Ligero (y rápido):

- SQLite está diseñado para ser ligero y eficiente, lo que lo hace ideal para aplicaciones con tráfico bajo o moderado, o para su uso en sistemas integrados.
- Funciona bien para aplicaciones pequeñas, pero puede no ser adecuado para sistemas de alta concurrencia o a gran escala.

Serverless:

- A diferencia de bases de datos tradicionales como MySQL o PostgreSQL, SQLite no requiere un proceso de servidor separado para funcionar.
- La base de datos se almacena en un solo archivo en el disco, y la biblioteca lee y escribe directamente en ese archivo.

Self-Contained:

• Es un sistema autónomo, lo que significa que no tiene dependencias externas. Todo el motor de la base de datos está contenido dentro de una sola biblioteca.

Configuración cero

 No requiere configuración ni administración. No es necesario instalar un servidor, configurar usuarios o administrarar permisos.

Base de datos en un solo archivo:

• Toda la base de datos (tablas, índices y datos) se almacena en un solo archivo en el disco (por ejemplo, mibasededatos.db). Por lo tanto es muy fácil copiar, mover o compartir la base de datos.

Adicionales:

- SQLite es multiplataforma y funciona en varios sistemas operativos, incluyendo Windows, macOS, Linux, iOS y Android.
- Admite propiedades ACID (Atomicidad, Consistencia, Aislamiento, Durabilidad), lo que garantiza transacciones confiables incluso en caso de fallos del sistema.
- Es open-source y se publica bajo dominio público, lo que significa que es gratis para cualquier uso sin restricciones de licencia.

Empecenmos...

6 18.1

6

- Una de las formas más fáciles es con DBI utilizando la función dbGetQuery()
- Se hace copy/paste de código SQL en la función de R como un string entre comillas
- Esta forma se conoce como pass through SQL code

225 105 2.76 3.460 20.22

```
conn <- DBI::dbConnect(RSQLite::SQLite(), "./Data/CarsDB.db")</pre>
dbListTables(conn)
## [1] "cars_data"
                     "otros_autos"
mtcars |> head()
##
                      mpg cyl disp hp drat
                                               wt qsec vs am gear carb
## Mazda RX4
                     21.0
                            6 160 110 3.90 2.620 16.46
                                                          0
## Mazda RX4 Wag
                     21.0
                            6 160 110 3.90 2.875 17.02
                                                          0
                                                                       4
## Datsun 710
                     22.8
                            4
                               108 93 3.85 2.320 18.61
                                                          1
                                                                       1
                            6
                               258 110 3.08 3.215 19.44
## Hornet 4 Drive
                     21.4
                                                          1
                                                             0
                                                                       1
## Hornet Sportabout 18.7
                            8
                               360 175 3.15 3.440 17.02
                                                          0
                                                                  3
                                                                       2
                            6 225 105 2.76 3.460 20.22
## Valiant
                     18.1
                                                                       1
datos <- mtcars
datos$car_names <- rownames(datos)</pre>
rownames(datos) <- c()</pre>
head(datos)
##
      mpg cyl disp hp drat
                               wt qsec vs am gear carb
                                                                 car_names
## 1 21.0
            6 160 110 3.90 2.620 16.46
                                                                 Mazda RX4
## 2 21.0
            6 160 110 3.90 2.875 17.02 0
                                            1
                                                  4
                                                       4
                                                             Mazda RX4 Wag
## 3 22.8
           4
               108 93 3.85 2.320 18.61
                                                  4
                                                       1
                                                                Datsun 710
## 4 21.4
            6
               258 110 3.08 3.215 19.44 1 0
                                                  3
                                                       1
                                                            Hornet 4 Drive
## 5 18.7
            8 360 175 3.15 3.440 17.02 0
                                                  3
                                                       2 Hornet Sportabout
```

Valiant

```
dbWriteTable(conn, "cars_data", datos, overwrite = TRUE)
dbListTables(conn)
## [1] "cars_data"
                      "otros_autos"
dbGetQuery(conn, "SELECT * FROM cars_data")
##
                                                                       car_names
       mpg cyl disp hp drat
                                  wt qsec vs am gear carb
      21.0
             6 160.0 110 3.90 2.620 16.46
                                             0
                                                                       Mazda RX4
                                                1
## 2
      21.0
             6 160.0 110 3.90 2.875 17.02
                                                                   Mazda RX4 Wag
                                             0
                                                1
                                                          4
      22.8
             4 108.0 93 3.85 2.320 18.61
                                             1
                                                1
                                                          1
                                                                      Datsun 710
## 4
             6 258.0 110 3.08 3.215 19.44
      21.4
                                             1
                                                0
                                                     3
                                                          1
                                                                  Hornet 4 Drive
## 5
      18.7
             8 360.0 175 3.15 3.440 17.02
                                             0
                                                0
                                                     3
                                                          2
                                                               Hornet Sportabout
## 6
             6 225.0 105 2.76 3.460 20.22
                                                     3
      18.1
                                             1
                                                0
                                                          1
                                                                         Valiant
## 7
      14.3
             8 360.0 245 3.21 3.570 15.84
                                             0
                                                0
                                                     3
                                                          4
                                                                      Duster 360
## 8 24.4
             4 146.7 62 3.69 3.190 20.00
                                                     4
                                                          2
                                             1
                                                0
                                                                       Merc 240D
## 9
      22.8
             4 140.8 95 3.92 3.150 22.90
                                                          2
                                                                        Merc 230
                                             1
                                                0
                                                     4
## 10 19.2
             6 167.6 123 3.92 3.440 18.30
                                             1
                                                0
                                                     4
                                                          4
                                                                        Merc 280
## 11 17.8
             6 167.6 123 3.92 3.440 18.90
                                             1
                                                     4
                                                          4
                                                                       Merc 280C
                                                0
                                                     3
                                                          3
## 12 16.4
             8 275.8 180 3.07 4.070 17.40
                                                                      Merc 450SE
## 13 17.3
             8 275.8 180 3.07 3.730 17.60
                                                     3
                                                          3
                                                                      Merc 450SL
                                             0
                                                0
## 14 15.2
             8 275.8 180 3.07 3.780 18.00
                                             0
                                                     3
                                                          3
                                                                     Merc 450SLC
## 15 10.4
                                                     3
                                                             Cadillac Fleetwood
             8 472.0 205 2.93 5.250 17.98
                                             0
                                                0
                                                          4
## 16 10.4
             8 460.0 215 3.00 5.424 17.82
                                             0
                                                     3
                                                          4 Lincoln Continental
## 17 14.7
             8 440.0 230 3.23 5.345 17.42
                                             0
                                                0
                                                     3
                                                          4
                                                               Chrysler Imperial
## 18 32.4
                78.7
                       66 4.08 2.200 19.47
                                                     4
                                                                        Fiat 128
                                             1
                                                1
                                                          1
                                                                     Honda Civic
## 19 30.4
                75.7
                       52 4.93 1.615 18.52
                                             1
                                                     4
                                                          2
                                                1
## 20 33.9
                      65 4.22 1.835 19.90
                                                                  Toyota Corolla
             4 71.1
                                                          1
## 21 21.5
             4 120.1 97 3.70 2.465 20.01
                                                0
                                                     3
                                                                   Toyota Corona
                                             1
                                                          1
             8 318.0 150 2.76 3.520 16.87
                                                     3
                                                          2
## 22 15.5
                                             0
                                                0
                                                               Dodge Challenger
## 23 15.2
             8 304.0 150 3.15 3.435 17.30
                                             0
                                                0
                                                     3
                                                          2
                                                                     AMC Javelin
## 24 13.3
             8 350.0 245 3.73 3.840 15.41
                                             0
                                                0
                                                     3
                                                          4
                                                                      Camaro Z28
## 25 19.2
             8 400.0 175 3.08 3.845 17.05
                                                          2
                                             0
                                                0
                                                     3
                                                               Pontiac Firebird
## 26 27.3
             4 79.0 66 4.08 1.935 18.90
                                             1
                                                1
                                                     4
                                                          1
                                                                       Fiat X1-9
                                                          2
## 27 26.0
             4 120.3 91 4.43 2.140 16.70
                                                                   Porsche 914-2
                                                                   Lotus Europa
## 28 30.4
             4 95.1 113 3.77 1.513 16.90
                                                          2
                                             1
                                                1
                                                     5
## 29 15.8
             8 351.0 264 4.22 3.170 14.50
                                             0
                                                     5
                                                          4
                                                                  Ford Pantera L
## 30 19.7
             6 145.0 175 3.62 2.770 15.50
                                             0
                                                     5
                                                          6
                                                1
                                                                    Ferrari Dino
## 31 15.0
             8 301.0 335 3.54 3.570 14.60
                                             0
                                                          8
                                                                   Maserati Bora
## 32 21.4
             4 121.0 109 4.11 2.780 18.60
                                             1
                                                                      Volvo 142E
dbGetQuery(conn, "SELECT * FROM cars_data LIMIT 10")
##
       mpg cyl disp hp drat
                                  wt qsec vs am gear carb
                                                                     car_names
## 1
      21.0
             6 160.0 110 3.90 2.620 16.46
                                             0
                                                     4
                                                          4
                                                                     Mazda RX4
                                                1
## 2
      21.0
             6 160.0 110 3.90 2.875 17.02
                                             0
                                                                Mazda RX4 Wag
## 3
      22.8
             4 108.0 93 3.85 2.320 18.61
                                             1
                                                     4
                                                                    Datsun 710
                                                1
                                                          1
```

1 0

0

1 0

0

3

3

3

1

1

Hornet 4 Drive

Valiant

2 Hornet Sportabout

4

5

6

21.4

18.7

18.1

6 258.0 110 3.08 3.215 19.44

8 360.0 175 3.15 3.440 17.02

6 225.0 105 2.76 3.460 20.22

```
8 360.0 245 3.21 3.570 15.84 0 0
## 7 14.3
                                                                 Duster 360
## 8 24.4
           4 146.7 62 3.69 3.190 20.00
                                           1 0
                                                        2
                                                                  Merc 240D
           4 140.8 95 3.92 3.150 22.90
                                                                   Merc 230
                                                        2
## 9 22.8
## 10 19.2
           6 167.6 123 3.92 3.440 18.30
                                                                   Merc 280
# Obtener los car names y caballos de fuerza (hp) que 8 cilindros
dbGetQuery(conn, "SELECT car_names, hp, cyl FROM cars_data
                 WHERE cyl = 8")
##
                car_names hp cyl
## 1
       Hornet Sportabout 175
## 2
              Duster 360 245
## 3
              Merc 450SE 180
## 4
              Merc 450SL 180
                                8
              Merc 450SLC 180
## 5
                                8
## 6
      Cadillac Fleetwood 205
## 7 Lincoln Continental 215
                                8
## 8
       Chrysler Imperial 230
                                8
## 9
         Dodge Challenger 150
                                8
## 10
              AMC Javelin 150
              Camaro Z28 245
## 11
## 12
        Pontiac Firebird 175
                                8
## 13
          Ford Pantera L 264
                                8
## 14
           Maserati Bora 335
# Obtener los car names y caballos de fuerza (hp) que empiezan con 'M' y que tienen 6 o 8 cilindros
dbGetQuery(conn, "SELECT car_names, hp, cyl FROM cars_data
                 WHERE car_names LIKE 'M%' AND cyl IN (6,8)")
##
         car names hp cyl
         Mazda RX4 110
## 1
## 2 Mazda RX4 Wag 110
## 3
         Merc 280 123
## 4
        Merc 280C 123
       Merc 450SE 180
## 5
## 6
       Merc 450SL 180
      Merc 450SLC 180
## 8 Maserati Bora 335
# Obtener los caballos de fuerza (hp) promedio y millas por galón (mpg) promedio por número de cilindro
dbGetQuery(conn, "SELECT cyl, AVG(hp) AS 'average_hp', AVG(mpg) AS 'average_mpg' FROM cars_data
                 GROUP BY cyl
                 ORDER BY average_hp")
     cyl average_hp average_mpg
## 1
      4
           82.63636
                       26.66364
## 2
      6 122.28571
                       19.74286
## 3
      8 209.21429
                       15.10000
resumen <- dbGetQuery(conn, "SELECT cyl, AVG(hp) AS 'average_hp'FROM cars_data
                 GROUP BY cyl
                 ORDER BY average_hp")
```

```
class(resumen)
## [1] "data.frame"
autos <- c('Camaro', 'California', 'Mustang', 'Explorer')</pre>
fabricante <- c('Chevrolet', 'Ferrari', 'Ford', 'Ford')</pre>
df1 <- data.frame(autos, fabricante)</pre>
df1
##
         autos fabricante
        Camaro Chevrolet
## 1
## 2 California Ferrari
## 3
       Mustang
                     Ford
## 4 Explorer
                      Ford
autos <- c('Corolla', 'Lancer', 'Sportage', 'XE')</pre>
fabricante <- c('Toyota', 'Mitsubishi', 'Kia', 'Jaguar')</pre>
df2 <- data.frame(autos, fabricante)</pre>
df2
##
        autos fabricante
## 1 Corolla
                  Toyota
## 2 Lancer Mitsubishi
## 3 Sportage
                     Kia
## 4
          ΧE
                  Jaguar
lista_dfs <- list(df1,df2)</pre>
lista_dfs
## [[1]]
##
          autos fabricante
## 1
        Camaro Chevrolet
## 2 California Ferrari
## 3
       Mustang
                      Ford
## 4
      Explorer
                      Ford
##
## [[2]]
##
        autos fabricante
## 1 Corolla
                  Toyota
## 2 Lancer Mitsubishi
## 3 Sportage
## 4
           ΧE
                  Jaguar
\# Se escribe una nueva tabla haciendo appending de los dataframes de la lista
for(k in 1:length(lista_dfs)){
    dbWriteTable(conn, "otros_autos", lista_dfs[[k]], append = TRUE)
}
dbListTables(conn)
## [1] "cars_data" "otros_autos"
```

```
dbGetQuery(conn, "SELECT * FROM otros_autos")
```

```
##
           autos fabricante
## 1
          Camaro Chevrolet
## 2
      California
                     Ferrari
                        Ford
## 3
         Mustang
## 4
        Explorer
                        Ford
## 5
         Corolla
                      Toyota
## 6
          Lancer Mitsubishi
## 7
        Sportage
                         Kia
## 8
              ΧE
                      Jaguar
## 9
          Camaro
                  Chevrolet
## 10 California
                     Ferrari
## 11
         Mustang
                        Ford
## 12
        Explorer
                        Ford
## 13
         Corolla
                      Toyota
## 14
          Lancer Mitsubishi
## 15
        Sportage
                         Kia
## 16
                      Jaguar
## 17
          Camaro
                   Chevrolet
## 18 California
                     Ferrari
## 19
         Mustang
                        Ford
        {\tt Explorer}
## 20
                        Ford
## 21
         Corolla
                      Toyota
## 22
          Lancer Mitsubishi
## 23
        Sportage
                         Kia
## 24
              ΧE
                      Jaguar
## 25
          Camaro Chevrolet
## 26 California
                     Ferrari
## 27
         Mustang
                        Ford
## 28
        Explorer
                        Ford
## 29
         Corolla
                      Toyota
## 30
          Lancer Mitsubishi
## 31
        Sportage
                         Kia
## 32
              ΧE
                      Jaguar
```

• Podemos parametrizar con objetos de R, las queries

Lets assume that there is some user input that asks us to look only into cars that have over 18 miles per gallon (mpg)

and more than 6 cylinders

```
params = c(millas, cilindros))
mi_df_query
##
             car_names mpg cyl
## 1
            Mazda RX4 21.0
## 2
       Mazda RX4 Wag 21.0
## 3
       Hornet 4 Drive 21.4
## 4 Hornet Sportabout 18.7
## 5
               Valiant 18.1
## 6
             Merc 280 19.2
## 7 Pontiac Firebird 19.2
          Ferrari Dino 19.7
dbDisconnect(conn)
lahman_s <- dbplyr::lahman_sqlite()</pre>
## Creating table: AllstarFull
## Creating table: Appearances
## Creating table: AwardsManagers
## Creating table: AwardsPlayers
## Creating table: AwardsShareManagers
## Creating table: AwardsSharePlayers
## Creating table: Batting
## Creating table: BattingPost
## Creating table: CollegePlaying
## Creating table: Fielding
## Creating table: FieldingOF
## Creating table: FieldingOFsplit
## Creating table: FieldingPost
## Creating table: HallOfFame
## Creating table: HomeGames
## Creating table: LahmanData
```

```
## Creating table: Managers
## Creating table: ManagersHalf
## Creating table: Parks
## Creating table: People
## Creating table: Pitching
## Creating table: PitchingPost
## Creating table: Salaries
## Creating table: Schools
## Creating table: SeriesPost
## Creating table: Teams
## Creating table: TeamsFranchises
## Creating table: TeamsHalf
bateo <- tbl(lahman_s, "Batting")</pre>
bateo |> class()
                                                  "tbl_sql"
## [1] "tbl_SQLiteConnection" "tbl_dbi"
## [4] "tbl_lazy"
                            "tbl"
bateo %>% show_query()
## <SQL>
## SELECT *
## FROM `Batting`
bateo |> dplyr::filter(playerID == "mcguide01")
## # Source:
              SQL [?? x 22]
## # Database: sqlite 3.47.1 [C:\Users\ferna\AppData\Local\Temp\RtmpAjDQHo\lahman.sqlite]
##
     playerID yearID stint teamID lgID
                                           G
                                                AB
                                                       R
                                                             Η
                                                                 X2B
                                                                      ХЗВ
##
     <chr>
               1 mcguide01 1884
                         1 TL1
                                           45
                                               151
                                                      12
                                                            28
                                  AA
                                                                              1
                                           34
                                                                        2
## 2 mcguide01 1885
                         1 DTN
                                  NL
                                               121
                                                      11
                                                            23
                                                                   4
                                                                              0
## 3 mcguide01 1886
                         1 PHI
                                  NL
                                          50
                                               167
                                                      25
                                                            33
                                                                  7
                                                                              2
                                           41
                                               150
                                                      22
                                                                              2
## 4 mcguide01
                 1887
                         1 PHI
                                  NL
                                                            46
                                                                  6
                                                                        6
## 5 mcguide01
                 1888
                         1 PHI
                                  NL
                                          12
                                                51
                                                      7
                                                            17
                                                                        2
                                                                              0
                         2 DTN
## 6 mcguide01
                 1888
                                  NL
                                           3
                                                13
                                                                  0
                                                                        0
                                                                              0
                                                       0
                                                             0
```

```
## 7 mcguide01
                  1888
                           3 CL3
                                     AA
                                              26
                                                   94
                                                          15
                                                                                    1
                                                                       1
## 8 mcguide01 1890
                           1 RC2
                                     AA
                                              87
                                                          46
                                                                99
                                                                       16
                                                                              4
                                                                                    4
                                                   331
                           1 WS9
## 9 mcguide01
                  1891
                                     AA
                                             114
                                                   413
                                                          55
                                                                125
                                                                       22
                                                                             10
                                                                                    3
                                                   315
                                                                              4
                                                                                    4
## 10 mcguide01
                  1892
                           1 WAS
                                     NL
                                              97
                                                          46
                                                                73
                                                                       14
## # i more rows
## # i 10 more variables: RBI <int>, SB <int>, CS <int>, BB <int>, SO <int>,
       IBB <int>, HBP <int>, SH <int>, SF <int>, GIDP <int>
bateo |> dplyr::filter(playerID == "mcguide01") |> show_query()
## <SQL>
## SELECT `Batting`.*
## FROM `Batting`
## WHERE (`playerID` = 'mcguide01')
bateo |> dplyr::filter(playerID == "mcguide01") |>
  dplyr::select(yearID,R) |>
  show_query()
## <SQL>
## SELECT `yearID`, `R`
## FROM `Batting`
## WHERE (`playerID` = 'mcguide01')
bateo |> dplyr::filter(playerID == "mcguide01") |>
  mutate(era = if_else(yearID <= 1888, "vieja era", "nueva era")) |>
  dplyr::select(playerID, yearID, era, teamID) |>
  show_query()
## <SQL>
## SELECT
##
     `playerID`,
##
     `yearID`,
     CASE WHEN ('yearID' <= 1888.0) THEN 'vieja era' WHEN NOT ('yearID' <= 1888.0) THEN 'nueva era' END
##
     `teamID`
## FROM `Batting`
## WHERE (`playerID` = 'mcguide01')
con <- dbConnect(RSQLite::SQLite(), dbname = "./Data/titanic.db")</pre>
dbListTables(con)
## [1] "titanic"
primer_query <- dbGetQuery(con, "SELECT * FROM titanic")</pre>
primer_query
##
       PassengerId Survived Pclass
## 1
                 1
## 2
                 2
                                  1
                          1
```

		•		_
##	3	3	1	3
##	4	4	1	1
##	5	5	0	3
##	6	6	0	3
##	7	7	0	1
##	8	8	0	3
##	9	9	1	3
##	10	10	1	2
##	11	11	1	3
##	12	12	1	1
##	13	13	0	3
##	14	14	0	3
##	15	15	0	3
##	16	16	1	2
##	17	17	0	3
##	18	18	1	2
##	19	19	0	3
##	20	20	1	3
##	21	21	0	2
##	22	22	1	2
##	23	23	1	3
##	24	24	1	1
##	25	25	0	3
##	26	26	1	3
##	27	27	0	3
##	28	28	0	1
##	29	29	1	3
##	30	30	0	3
##	31	31	0	1
##	32	32	1	1
##	33	33	1	3
##	34	34	0	2
##	35	35	0	1
##	36	36	0	1
##	37	37	1	3
##	38	38	0	3
##	39	39	0	3
##	40	40	1	3
##	41	41	0	3
##	42	42	0	2
##	43	43	0	3
##	44	44	1	2
##	45	45	1	3
##	46	46	0	3
##	47	47	0	3
##	48	48	1	3
##	49	49	0	3
##	50	50	0	3
##	51	51	0	3
##	52	52	0	3
##	53	53	1	1
##	54	54	1	2
##	55	55	0	1
##	56	56	1	1
##	00	50	1	Т

##	57	57	1	2
##	58	58	0	3
##	59	59	1	2
##	60	60	0	3
##	61	61	0	3
##	62	62	1	1
##	63	63	0	1
##	64	64 65	0	3
## ##	65 66	65 66	0 1	1 3
##	67	67	1	2
##	68	68	0	3
##	69	69	1	3
##	70	70	0	3
##	71	71	0	2
##	72	72	0	3
##	73	73	0	2
##	74	74	0	3
##	75	75	1	3
##	76	76	0	3
##	77	77	0	3
##	78	78	0	3
##	79	79	1	2
##	80	80	1	3
##	81	81	0	3
##	82	82	1	3
##	83	83	1	3
##	84	84	0	1
##	85	85	1	2
##	86	86	1	3
##	87	87	0	3
##	88	88	0	3
##	89	89 90	1	1
## ##	90 91	90 91	0 0	3
##	92	92	0	3
##	93	93	0	1
##	94	94	0	3
##	95	95	0	3
##	96	96	0	3
##	97	97	0	1
##	98	98	1	1
##	99	99	1	2
##	100	100	0	2
##	101	101	0	3
##	102	102	0	3
##	103	103	0	1
##	104	104	0	3
##	105	105	0	3
##	106	106	0	3
##	107	107	1	3
##	108	108	1	3
##	109	109	0	3
##	110	110	1	3

			_	
##	111	111	0	1
##	112	112	0	3
##	113	113	0	3
##	114	114	0	3
##	115	115	0	3
##	116	116	0	3
	117			3
##		117	0	
##	118	118	0	2
##	119	119	0	1
##	120	120	0	3
##	121	121	0	2
##	122	122	0	3
##	123	123	0	2
##	124	124	1	2
##	125	125	0	1
##	126	126	1	3
##	127	127		3
			0	
##	128	128	1	3
##	129	129	1	3
##	130	130	0	3
##	131	131	0	3
##	132	132	0	3
##	133	133	0	3
##	134	134	1	2
##	135	135	0	2
##	136	136	0	2
##	137	137	1	1
##	138	138	0	1
##	139	139	0	3
##	140	140	0	1
##	141			
		141	0	3
##	142	142	1	3
##	143	143	1	3
##	144	144	0	3
##	145	145	0	2
##	146	146	0	2
##	147	147	1	3
##	148	148	0	3
##	149	149	0	2
##	150	150	0	2
##	151	151	0	2
##	152	152	1	1
##	153	153	0	3
##	154	154	0	3
##	155	155	0	3
##	156	156	0	1
##	157	157	1	3
##	158	158	0	3
##	159	159	0	3
##	160	160	0	3
##	161	161	0	3
##	162	162	1	2
##	163	163	0	3
##	164	164	0	3

##	165	165	0	3
##	166	166	1	3
##	167	167	1	1
##	168	168	0	3
##	169	169	0	1
##	170	170	0	3
##	171	171	0	1
##	172	172	0	3
##	173	173	1	3
##	174	174	0	3
##	175	175	0	1
##	176	176	0	3
##	177	177	0	3
##	178	178	0	1
##	179	179	0	2
##	180	180	0	3
##	181	181	0	3
##	182	182	0	2
##	183	183	0	3
##	184	184	1	2
##	185	185	1	3
##	186	186	0	1
##	187	187	1	3
##	188	188	1	1
##	189	189	0	3
##	190	190	0	3
##	191	191	1	2
##	192	192	0	2
##	193	193	1	3
##	194	194	1	2
##	195	195	1	1
##	196	196	1	1
##	197	197	0	3
##	198	198	0	3
##	199	199	1	3
##	200	200	0	2
##	201	201	0	3
##	202	202	0	3
##	203	203	0	3
##	204	204	0	3
##	205	205	1	3
##	206	206	0	3
##	207	207	0	3
##	208	208	1	3
##	209	209	1	3
##	210	210	1	1
##	211	211	0	3
##	212	212	1	2
##	213	213	0	3
##	214	214	0	2
##	214	214	0	3
##	216	216	1	1
##	217	217	1	3
##	218	218	0	2

##	219	219	1	1
##	220	220	0	2
##	221	221	1	3
##	222	222	0	2
##	223	223	0	3
##	224	224	0	3
##	225	225	1	1
##	226	226	0	3
##				
	227	227	1	2
##	228	228	0	3
##	229	229	0	2
##	230	230	0	3
##	231	231	1	1
##	232	232	0	3
##	233	233	0	2
##	234	234	1	3
##	235	235	0	2
##	236	236	0	3
##	237	237	0	2
##	238	238	1	2
##	239	239	0	2
##	240	240	0	2
##	241	241	0	3
##	242	242	1	3
##	243	243	0	2
##	244	244	0	3
##	245	245	0	3
##	246	246	0	1
##	247	247	0	3
##	248	248	1	2
##	249	249	1	1
##	250	250	0	2
##	251	251	0	3
##	252	252	0	3
##	253	253	0	1
##	254	254	0	3
##	255	255	0	3
				_
##	256	256	1	3
##	257	257	1	1
##	258	258	1	1
##	259	259	1	1
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                                   3
## 880
                880
                            1
                                   1
## 881
                881
                            1
                                   2
## 882
                882
                            0
                                   3
## 883
                883
                            0
                                   3
                                   2
                            0
## 884
                884
                                   3
## 885
                885
                            0
                            0
                                   3
## 886
                886
## 887
                887
                            0
                                   2
## 888
                888
                            1
                                   1
                            0
                                   3
## 889
                889
## 890
                890
                            1
                                   1
                            0
                                   3
## 891
                891
##
                                                                                           Name
## 1
                                                                       Braund, Mr. Owen Harris
## 2
                                        Cumings, Mrs. John Bradley (Florence Briggs Thayer)
## 3
                                                                        Heikkinen, Miss. Laina
## 4
                                                Futrelle, Mrs. Jacques Heath (Lily May Peel)
## 5
                                                                      Allen, Mr. William Henry
## 6
                                                                              Moran, Mr. James
## 7
                                                                       McCarthy, Mr. Timothy J
## 8
                                                               Palsson, Master. Gosta Leonard
## 9
                                           Johnson, Mrs. Oscar W (Elisabeth Vilhelmina Berg)
## 10
                                                         Nasser, Mrs. Nicholas (Adele Achem)
## 11
                                                              Sandstrom, Miss. Marguerite Rut
## 12
                                                                      Bonnell, Miss. Elizabeth
## 13
                                                               Saundercock, Mr. William Henry
                                                                  Andersson, Mr. Anders Johan
## 14
## 15
                                                         Vestrom, Miss. Hulda Amanda Adolfina
                                                             Hewlett, Mrs. (Mary D Kingcome)
## 16
## 17
                                                                          Rice, Master. Eugene
## 18
                                                                 Williams, Mr. Charles Eugene
## 19
                                    Vander Planke, Mrs. Julius (Emelia Maria Vandemoortele)
## 20
                                                                      Masselmani, Mrs. Fatima
## 21
                                                                          Fynney, Mr. Joseph J
## 22
                                                                         Beesley, Mr. Lawrence
## 23
                                                                  McGowan, Miss. Anna "Annie"
## 24
                                                                 Sloper, Mr. William Thompson
## 25
                                                                Palsson, Miss. Torborg Danira
## 26
                                  Asplund, Mrs. Carl Oscar (Selma Augusta Emilia Johansson)
## 27
                                                                       Emir, Mr. Farred Chehab
## 28
                                                               Fortune, Mr. Charles Alexander
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## 29	O'Dwyer, Miss. Ellen "Nellie"
## 30	Todoroff, Mr. Lalio
## 31	Uruchurtu, Don. Manuel E
## 32	Spencer, Mrs. William Augustus (Marie Eugenie)
## 33	Glynn, Miss. Mary Agatha
## 34	Wheadon, Mr. Edward H
## 35	Meyer, Mr. Edgar Joseph
## 36	Holverson, Mr. Alexander Oskar
## 37	Mamee, Mr. Hanna
## 38	Cann, Mr. Ernest Charles
## 39	Vander Planke, Miss. Augusta Maria
## 40	Nicola-Yarred, Miss. Jamila
## 41	Ahlin, Mrs. Johan (Johanna Persdotter Larsson)
## 42	Turpin, Mrs. William John Robert (Dorothy Ann Wonnacott)
## 43	Kraeff, Mr. Theodor
## 44	Laroche, Miss. Simonne Marie Anne Andree
## 45	Devaney, Miss. Margaret Delia
## 46	Rogers, Mr. William John
## 47	Lennon, Mr. Denis
## 48	O'Driscoll, Miss. Bridget
## 49	Samaan, Mr. Youssef
## 50	Arnold-Franchi, Mrs. Josef (Josefine Franchi)
## 51	Panula, Master. Juha Niilo
## 52	Nosworthy, Mr. Richard Cater
## 53	Harper, Mrs. Henry Sleeper (Myna Haxtun)
## 54	Faunthorpe, Mrs. Lizzie (Elizabeth Anne Wilkinson)
## 55	Ostby, Mr. Engelhart Cornelius
## 56	Woolner, Mr. Hugh
## 57	Rugg, Miss. Emily
## 58	Novel, Mr. Mansouer
## 59	West, Miss. Constance Mirium
## 60	Goodwin, Master. William Frederick
## 61	
## 61 ## 62	Sirayanian, Mr. Orsen
	Icard, Miss. Amelie
## 63 ## 64	Harris, Mr. Henry Birkhardt
	Skoog, Master. Harald
## 65 ## 66	Stewart, Mr. Albert A
## 66	Moubarek, Master. Gerios
## 67	Nye, Mrs. (Elizabeth Ramell)
## 68	Crease, Mr. Ernest James
## 69	Andersson, Miss. Erna Alexandra
## 70	Kink, Mr. Vincenz
## 71	Jenkin, Mr. Stephen Curnow
## 72	Goodwin, Miss. Lillian Amy
## 73	Hood, Mr. Ambrose Jr
## 74	Chronopoulos, Mr. Apostolos
## 75	Bing, Mr. Lee
## 76	Moen, Mr. Sigurd Hansen
## 77	Staneff, Mr. Ivan
## 78	Moutal, Mr. Rahamin Haim
## 79	Caldwell, Master. Alden Gates
## 80	Dowdell, Miss. Elizabeth
## 81	Waelens, Mr. Achille
## 82	Sheerlinck, Mr. Jan Baptist
	-

	83	McDermott, Miss. Brigdet Delia
	84	Carrau, Mr. Francisco M
	85	Ilett, Miss. Bertha
	86	Backstrom, Mrs. Karl Alfred (Maria Mathilda Gustafsson)
	87	Ford, Mr. William Neal
	88	Slocovski, Mr. Selman Francis
	89	Fortune, Miss. Mabel Helen
	90	Celotti, Mr. Francesco
	91	Christmann, Mr. Emil
	92	Andreasson, Mr. Paul Edvin
	93	Chaffee, Mr. Herbert Fuller
	94	Dean, Mr. Bertram Frank
	95	Coxon, Mr. Daniel
	96	Shorney, Mr. Charles Joseph
	97	Goldschmidt, Mr. George B
	98	Greenfield, Mr. William Bertram
	99	Doling, Mrs. John T (Ada Julia Bone)
	100	Kantor, Mr. Sinai
	101	Petranec, Miss. Matilda
	102	Petroff, Mr. Pastcho ("Pentcho")
	103	White, Mr. Richard Frasar
	104	Johansson, Mr. Gustaf Joel
	105	Gustafsson, Mr. Anders Vilhelm
	106	Mionoff, Mr. Stoytcho
	107	Salkjelsvik, Miss. Anna Kristine
	108	Moss, Mr. Albert Johan
	109	Rekic, Mr. Tido
	110	Moran, Miss. Bertha
	111	Porter, Mr. Walter Chamberlain
	112	Zabour, Miss. Hileni
	113	Barton, Mr. David John
	114	Jussila, Miss. Katriina
	115	Attalah, Miss. Malake
	116	Pekoniemi, Mr. Edvard
	117	Connors, Mr. Patrick
	118	Turpin, Mr. William John Robert
	119	Baxter, Mr. Quigg Edmond
	120	Andersson, Miss. Ellis Anna Maria
	121	Hickman, Mr. Stanley George
	122	Moore, Mr. Leonard Charles
	123	Nasser, Mr. Nicholas
	124	Webber, Miss. Susan
	125	White, Mr. Percival Wayland
	126	Nicola-Yarred, Master. Elias
	127	McMahon, Mr. Martin
	128	Madsen, Mr. Fridtjof Arne
	129	Peter, Miss. Anna
	130	Ekstrom, Mr. Johan
	131	Drazenoic, Mr. Jozef
	132	Coelho, Mr. Domingos Fernandeo
	133	Robins, Mrs. Alexander A (Grace Charity Laury)
	134	Weisz, Mrs. Leopold (Mathilde Francoise Pede)
	135	Sobey, Mr. Samuel James Hayden
##	136	Richard, Mr. Emile

## 137	Newsom, Miss. Helen Monypeny
## 138	Futrelle, Mr. Jacques Heath
## 139	Osen, Mr. Olaf Elon
## 140	Giglio, Mr. Victor
## 141	Boulos, Mrs. Joseph (Sultana)
## 142	Nysten, Miss. Anna Sofia
## 143	Hakkarainen, Mrs. Pekka Pietari (Elin Matilda Dolck)
## 144	Burke, Mr. Jeremiah
## 145	Andrew, Mr. Edgardo Samuel
## 146	Nicholls, Mr. Joseph Charles
## 147	Andersson, Mr. August Edvard ("Wennerstrom")
## 148	Ford, Miss. Robina Maggie "Ruby"
## 149	Navratil, Mr. Michel ("Louis M Hoffman")
## 150	
	Byles, Rev. Thomas Roussel Davids
## 151	Bateman, Rev. Robert James
## 152 ## 453	Pears, Mrs. Thomas (Edith Wearne)
## 153	Meo, Mr. Alfonzo
## 154	van Billiard, Mr. Austin Blyler
## 155	Olsen, Mr. Ole Martin
## 156 	Williams, Mr. Charles Duane
## 157	Gilnagh, Miss. Katherine "Katie"
## 158	Corn, Mr. Harry
## 159	Smiljanic, Mr. Mile
## 160	Sage, Master. Thomas Henry
## 161	Cribb, Mr. John Hatfield
## 162	Watt, Mrs. James (Elizabeth "Bessie" Inglis Milne)
## 163	Bengtsson, Mr. John Viktor
## 164	Calic, Mr. Jovo
## 165	Panula, Master. Eino Viljami
## 166	Goldsmith, Master. Frank John William "Frankie"
## 167	Chibnall, Mrs. (Edith Martha Bowerman)
## 168	Skoog, Mrs. William (Anna Bernhardina Karlsson)
## 169	Baumann, Mr. John D
## 170	Ling, Mr. Lee
## 171	Van der hoef, Mr. Wyckoff
## 172	Rice, Master. Arthur
## 173	Johnson, Miss. Eleanor Ileen
## 174	Sivola, Mr. Antti Wilhelm
## 175	Smith, Mr. James Clinch
## 176	Klasen, Mr. Klas Albin
## 177	Lefebre, Master. Henry Forbes
## 178	Isham, Miss. Ann Elizabeth
## 179	Hale, Mr. Reginald
## 180	Leonard, Mr. Lionel
## 181	Sage, Miss. Constance Gladys
## 182	Pernot, Mr. Rene
## 183	Asplund, Master. Clarence Gustaf Hugo
## 184	Becker, Master. Richard F
## 185	Kink-Heilmann, Miss. Luise Gretchen
## 186	Rood, Mr. Hugh Roscoe
## 187	O'Brien, Mrs. Thomas (Johanna "Hannah" Godfrey)
## 188	Romaine, Mr. Charles Hallace ("Mr C Rolmane")
## 189	Bourke, Mr. John
## 190	Turcin, Mr. Stjepan
	,

## 191	Pinsky, Mrs. (Rosa)
## 192	Carbines, Mr. William
## 193	Andersen-Jensen, Miss. Carla Christine Nielsine
## 194	Navratil, Master. Michel M
## 195	Brown, Mrs. James Joseph (Margaret Tobin)
## 196	Lurette, Miss. Elise
## 197	Mernagh, Mr. Robert
## 198 ## 100	Olsen, Mr. Karl Siegwart Andreas
## 199 ## 200	Madigan, Miss. Margaret "Maggie"
## 200 ## 201	Yrois, Miss. Henriette ("Mrs Harbeck")
## 201 ## 202	Vande Walle, Mr. Nestor Cyriel
## 202 ## 203	Sage, Mr. Frederick Johanson, Mr. Jakob Alfred
## 203 ## 204	Youseff, Mr. Gerious
## 20 1 ## 205	Cohen, Mr. Gurshon "Gus"
## 206	Strom, Miss. Telma Matilda
## 207	Backstrom, Mr. Karl Alfred
## 207 ## 208	Albimona, Mr. Nassef Cassem
## 200 ## 209	Carr, Miss. Helen "Ellen"
## 210	Blank, Mr. Henry
## 210 ## 211	Ali, Mr. Ahmed
## 211 ## 212	Cameron, Miss. Clear Annie
## 212 ## 213	Perkin, Mr. John Henry
## 213 ## 214	Givard, Mr. Hans Kristensen
## 21 4 ## 215	Kiernan, Mr. Philip
## 216	Newell, Miss. Madeleine
## 210 ## 217	Honkanen, Miss. Eliina
## 217 ## 218	Jacobsohn, Mr. Sidney Samuel
## 219	Bazzani, Miss. Albina
## 220	Harris, Mr. Walter
## 221	Sunderland, Mr. Victor Francis
## 222	Bracken, Mr. James H
## 223	Green, Mr. George Henry
## 224	Nenkoff, Mr. Christo
## 225	Hoyt, Mr. Frederick Maxfield
## 226	Berglund, Mr. Karl Ivar Sven
## 227	Mellors, Mr. William John
## 228	Lovell, Mr. John Hall ("Henry")
## 229	Fahlstrom, Mr. Arne Jonas
## 229 ## 230	Lefebre, Miss. Mathilde
## 231	Harris, Mrs. Henry Birkhardt (Irene Wallach)
## 231 ## 232	Larsson, Mr. Bengt Edvin
## 233	Sjostedt, Mr. Ernst Adolf
## 234	Asplund, Miss. Lillian Gertrud
## 235 ## 235	Leyson, Mr. Robert William Norman
## 236	Harknett, Miss. Alice Phoebe
## 237	Hold, Mr. Stephen
## 238	Collyer, Miss. Marjorie "Lottie"
## 239	Pengelly, Mr. Frederick William
## 239 ## 240	
## 240 ## 241	Hunt, Mr. George Henry Zabour, Miss. Thamine
## 241 ## 242	Murphy, Miss. Katherine "Kate"
## 242 ## 243	Coleridge, Mr. Reginald Charles
## 243 ## 244	
π# ८ ±±	Maenpaa, Mr. Matti Alexanteri

	245	Attalah, Mr. Sleiman
	246	Minahan, Dr. William Edward
	247	Lindahl, Miss. Agda Thorilda Viktoria
	248	Hamalainen, Mrs. William (Anna)
	249	Beckwith, Mr. Richard Leonard
	250	Carter, Rev. Ernest Courtenay
	251	Reed, Mr. James George
	252	Strom, Mrs. Wilhelm (Elna Matilda Persson)
	253	Stead, Mr. William Thomas
	254255	Lobb, Mr. William Arthur
	256	Rosblom, Mrs. Viktor (Helena Wilhelmina) Touma, Mrs. Darwis (Hanne Youssef Razi)
	257	Thorne, Mrs. Gertrude Maybelle
	258	Cherry, Miss. Gladys
	259	Ward, Miss. Anna
	260	Parrish, Mrs. (Lutie Davis)
	261	Smith, Mr. Thomas
	262	Asplund, Master. Edvin Rojj Felix
	263	Taussig, Mr. Emil
	264	Harrison, Mr. William
	265	Henry, Miss. Delia
	266	Reeves, Mr. David
	267	Panula, Mr. Ernesti Arvid
##	268	Persson, Mr. Ernst Ulrik
##	269	Graham, Mrs. William Thompson (Edith Junkins)
##	270	Bissette, Miss. Amelia
##	271	Cairns, Mr. Alexander
##	272	Tornquist, Mr. William Henry
##	273	Mellinger, Mrs. (Elizabeth Anne Maidment)
##	274	Natsch, Mr. Charles H
	275	Healy, Miss. Hanora "Nora"
	276	Andrews, Miss. Kornelia Theodosia
	277	Lindblom, Miss. Augusta Charlotta
	278	Parkes, Mr. Francis "Frank"
	279	Rice, Master. Eric
	280	Abbott, Mrs. Stanton (Rosa Hunt)
	281	Duane, Mr. Frank
	282	Olsson, Mr. Nils Johan Goransson
	283	de Pelsmaeker, Mr. Alfons
	284	Dorking, Mr. Edward Arthur
	285	Smith, Mr. Richard William
	286	Stankovic, Mr. Ivan
	287	de Mulder, Mr. Theodore
	288	Naidenoff, Mr. Penko
	289	Hosono, Mr. Masabumi
	290	Connolly, Miss. Kate
	291 292	Barber, Miss. Ellen "Nellie" Righer Mrs. Dickinson H (Helen Walter)
	292 293	Bishop, Mrs. Dickinson H (Helen Walton)
	293 294	Levy, Mr. Rene Jacques Haas, Miss. Aloisia
	295	Mineff, Mr. Ivan
	296	Lewy, Mr. Ervin G
	297	Hanna, Mr. Mansour
	298	Allison, Miss. Helen Loraine
ππ	200	Allison, miss. neten Loralne

	299	Saalfeld, Mr. Adolphe
	300	Baxter, Mrs. James (Helene DeLaudeniere Chaput)
	301	Kelly, Miss. Anna Katherine "Annie Kate"
	302	McCoy, Mr. Bernard
	303	Johnson, Mr. William Cahoone Jr
	304	Keane, Miss. Nora A
	305 306	Williams, Mr. Howard Hugh "Harry"
	307	Allison, Master. Hudson Trevor
		Fleming, Miss. Margaret Penasco y Castellana, Mrs. Victor de Satode (Maria Josefa Perez de Soto y Vallejo)
	309	Abelson, Mr. Samuel
	310	Francatelli, Miss. Laura Mabel
	311	Hays, Miss. Margaret Bechstein
	312	Ryerson, Miss. Emily Borie
	313	Lahtinen, Mrs. William (Anna Sylfven)
	314	Hendekovic, Mr. Ignjac
	315	Hart, Mr. Benjamin
	316	Nilsson, Miss. Helmina Josefina
	317	Kantor, Mrs. Sinai (Miriam Sternin)
##	318	Moraweck, Dr. Ernest
##	319	Wick, Miss. Mary Natalie
##	320	Spedden, Mrs. Frederic Oakley (Margaretta Corning Stone)
##	321	Dennis, Mr. Samuel
##	322	Danoff, Mr. Yoto
##	323	Slayter, Miss. Hilda Mary
	324	Caldwell, Mrs. Albert Francis (Sylvia Mae Harbaugh)
	325	Sage, Mr. George John Jr
	326	Young, Miss. Marie Grice
	327	Nysveen, Mr. Johan Hansen
	328	Ball, Mrs. (Ada E Hall)
	329	Goldsmith, Mrs. Frank John (Emily Alice Brown)
	330	Hippach, Miss. Jean Gertrude
	331	McCoy, Miss. Agnes
	332	Partner, Mr. Austen
	333 334	Graham, Mr. George Edward Vander Planke, Mr. Leo Edmondus
	335	Frauenthal, Mrs. Henry William (Clara Heinsheimer)
	336	Denkoff, Mr. Mitto
	337	Pears, Mr. Thomas Clinton
	338	Burns, Miss. Elizabeth Margaret
	339	Dahl, Mr. Karl Edwart
	340	Blackwell, Mr. Stephen Weart
	341	Navratil, Master. Edmond Roger
##	342	Fortune, Miss. Alice Elizabeth
##	343	Collander, Mr. Erik Gustaf
##	344	Sedgwick, Mr. Charles Frederick Waddington
##	345	Fox, Mr. Stanley Hubert
##	346	Brown, Miss. Amelia "Mildred"
##	347	Smith, Miss. Marion Elsie
##	348	Davison, Mrs. Thomas Henry (Mary E Finck)
	349	Coutts, Master. William Loch "William"
	350	Dimic, Mr. Jovan
	351	Odahl, Mr. Nils Martin
##	352	Williams-Lambert, Mr. Fletcher Fellows

## 353	Elias, Mr. Tannous
## 354	Arnold-Franchi, Mr. Josef
## 355	Yousif, Mr. Wazli
## 356	Vanden Steen, Mr. Leo Peter
## 357	Bowerman, Miss. Elsie Edith
## 358	Funk, Miss. Annie Clemmer
## 359	McGovern, Miss. Mary
## 360	Mockler, Miss. Helen Mary "Ellie"
## 361	Skoog, Mr. Wilhelm
## 362 ## 263	del Carlo, Mr. Sebastiano
## 363	Barbara, Mrs. (Catherine David)
## 364	Asim, Mr. Adola
## 365	O'Brien, Mr. Thomas
## 366	Adahl, Mr. Mauritz Nils Martin
## 367	Warren, Mrs. Frank Manley (Anna Sophia Atkinson)
## 368	Moussa, Mrs. (Mantoura Boulos)
## 369	Jermyn, Miss. Annie
## 370	Aubart, Mme. Leontine Pauline
## 371	Harder, Mr. George Achilles
## 372	Wiklund, Mr. Jakob Alfred
## 373	Beavan, Mr. William Thomas
## 374	Ringhini, Mr. Sante
## 375	Palsson, Miss. Stina Viola
## 376	Meyer, Mrs. Edgar Joseph (Leila Saks)
## 377	Landergren, Miss. Aurora Adelia
## 378	Widener, Mr. Harry Elkins
## 379	Betros, Mr. Tannous
## 380	Gustafsson, Mr. Karl Gideon
## 381	Bidois, Miss. Rosalie
## 382	Nakid, Miss. Maria ("Mary")
## 383	Tikkanen, Mr. Juho
## 384	Holverson, Mrs. Alexander Oskar (Mary Aline Towner)
## 385	Plotcharsky, Mr. Vasil
## 386	Davies, Mr. Charles Henry
## 387	Goodwin, Master. Sidney Leonard
## 388	Buss, Miss. Kate
## 389 ## 200	Sadlier, Mr. Matthew
## 390	Lehmann, Miss. Bertha
## 391 ## 300	Carter, Mr. William Ernest
## 392 ## 202	Jansson, Mr. Carl Olof
## 393	Gustafsson, Mr. Johan Birger
## 394	Newell, Miss. Marjorie
## 395	Sandstrom, Mrs. Hjalmar (Agnes Charlotta Bengtsson)
## 396	Johansson, Mr. Erik
## 397	Olsson, Miss. Elina
## 398	McKane, Mr. Peter David
## 399	Pain, Dr. Alfred
## 400	Trout, Mrs. William H (Jessie L)
## 401	Niskanen, Mr. Juha
## 402	Adams, Mr. John
## 403	Jussila, Miss. Mari Aina
## 404	Hakkarainen, Mr. Pekka Pietari
## 405	Oreskovic, Miss. Marija
## 406	Gale, Mr. Shadrach
	····,

	407	Widegren, Mr. Carl/Charles Peter
	408	Richards, Master. William Rowe
##	409	Birkeland, Mr. Hans Martin Monsen
##	410	Lefebre, Miss. Ida
##	411	Sdycoff, Mr. Todor
##	412	Hart, Mr. Henry
##	413	Minahan, Miss. Daisy E
##	414	Cunningham, Mr. Alfred Fleming
##	415	Sundman, Mr. Johan Julian
##	416	Meek, Mrs. Thomas (Annie Louise Rowley)
##	417	Drew, Mrs. James Vivian (Lulu Thorne Christian)
##	418	Silven, Miss. Lyyli Karoliina
##	419	Matthews, Mr. William John
##	420	Van Impe, Miss. Catharina
##	421	Gheorgheff, Mr. Stanio
##	422	Charters, Mr. David
##	423	Zimmerman, Mr. Leo
##	424	Danbom, Mrs. Ernst Gilbert (Anna Sigrid Maria Brogren)
##	425	Rosblom, Mr. Viktor Richard
##	426	Wiseman, Mr. Phillippe
##	427	Clarke, Mrs. Charles V (Ada Maria Winfield)
##	428	Phillips, Miss. Kate Florence ("Mrs Kate Louise Phillips Marshall")
##	429	Flynn, Mr. James
##	430	Pickard, Mr. Berk (Berk Trembisky)
##	431	Bjornstrom-Steffansson, Mr. Mauritz Hakan
##	432	Thorneycroft, Mrs. Percival (Florence Kate White)
##	433	Louch, Mrs. Charles Alexander (Alice Adelaide Slow)
##	434	Kallio, Mr. Nikolai Erland
##	435	Silvey, Mr. William Baird
##	436	Carter, Miss. Lucile Polk
##	437	Ford, Miss. Doolina Margaret "Daisy"
##	438	Richards, Mrs. Sidney (Emily Hocking)
##	439	Fortune, Mr. Mark
##	440	Kvillner, Mr. Johan Henrik Johannesson
##	441	Hart, Mrs. Benjamin (Esther Ada Bloomfield)
##	442	Hampe, Mr. Leon
##	443	Petterson, Mr. Johan Emil
	444	Reynaldo, Ms. Encarnacion
	445	Johannesen-Bratthammer, Mr. Bernt
	446	Dodge, Master. Washington
	447	Mellinger, Miss. Madeleine Violet
	448	Seward, Mr. Frederic Kimber
	449	Baclini, Miss. Marie Catherine
	450	Peuchen, Major. Arthur Godfrey
	451	West, Mr. Edwy Arthur
	452	Hagland, Mr. Ingvald Olai Olsen
	453	Foreman, Mr. Benjamin Laventall
	454	Goldenberg, Mr. Samuel L
	455	Peduzzi, Mr. Joseph
	456	Jalsevac, Mr. Ivan
	457	Millet, Mr. Francis Davis
	458	Kenyon, Mrs. Frederick R (Marion)
	459	Toomey, Miss. Ellen
	460	O'Connor, Mr. Maurice
##	1 00	o comor, Mr. Maurice

##	461	Anderson, Mr. Harry
##	462	Morley, Mr. William
##	463	Gee, Mr. Arthur H
##	464	Milling, Mr. Jacob Christian
##	465	Maisner, Mr. Simon
	466	Goncalves, Mr. Manuel Estanslas
	467	Campbell, Mr. William
	468	Smart, Mr. John Montgomery
	469	Scanlan, Mr. James
	470	Baclini, Miss. Helene Barbara
	471	Keefe, Mr. Arthur
	472	Cacic, Mr. Luka
	473	West, Mrs. Edwy Arthur (Ada Mary Worth)
	474	Jerwan, Mrs. Amin S (Marie Marthe Thuillard)
	475	Strandberg, Miss. Ida Sofia
	476	Clifford, Mr. George Quincy
	477	Renouf, Mr. Peter Henry
	478	Braund, Mr. Lewis Richard
	479	Karlsson, Mr. Nils August
	480 481	Hirvonen, Miss. Hildur E Goodwin, Master. Harold Victor
	482	,
	483	Frost, Mr. Anthony Wood "Archie"
	484	Rouse, Mr. Richard Henry
	485	Turkula, Mrs. (Hedwig)
		Bishop, Mr. Dickinson H
	486 487	Lefebre, Miss. Jeannie Hoyt, Mrs. Frederick Maxfield (Jane Anne Forby)
	488	Kent, Mr. Edward Austin
	489	Somerton, Mr. Francis William
	490	Coutts, Master. Eden Leslie "Neville"
	491	Hagland, Mr. Konrad Mathias Reiersen
	492	Windelov, Mr. Einar
	493	Molson, Mr. Harry Markland
	494	Artagaveytia, Mr. Ramon
	495	Stanley, Mr. Edward Roland
	496	Yousseff, Mr. Gerious
	497	Eustis, Miss. Elizabeth Mussey
	498	Shellard, Mr. Frederick William
	499	Allison, Mrs. Hudson J C (Bessie Waldo Daniels)
	500	Svensson, Mr. Olof
	501	Calic, Mr. Petar
	502	Canavan, Miss. Mary
	503	O'Sullivan, Miss. Bridget Mary
	504	Laitinen, Miss. Kristina Sofia
	505	Maioni, Miss. Roberta
	506	Penasco y Castellana, Mr. Victor de Satode
	507	Quick, Mrs. Frederick Charles (Jane Richards)
	508	Bradley, Mr. George ("George Arthur Brayton")
	509	Olsen, Mr. Henry Margido
	510	Lang, Mr. Fang
	511	Daly, Mr. Eugene Patrick
	512	Webber, Mr. James
	513	McGough, Mr. James Robert
	514	Rothschild, Mrs. Martin (Elizabeth L. Barrett)
		woodsonila, his. harvin (bilbasson b. ballous)

## 515	Coleff, Mr. Satio
## 516	Walker, Mr. William Anderson
## 517	Lemore, Mrs. (Amelia Milley)
## 518	Ryan, Mr. Patrick
## 519	Angle, Mrs. William A (Florence "Mary" Agnes Hughes)
## 520	Pavlovic, Mr. Stefo
## 521	Perreault, Miss. Anne
## 522	Vovk, Mr. Janko
## 523	Lahoud, Mr. Sarkis
## 524	Hippach, Mrs. Louis Albert (Ida Sophia Fischer)
## 525	Kassem, Mr. Fared
## 526	Farrell, Mr. James
## 527	Ridsdale, Miss. Lucy
## 528	Farthing, Mr. John
## 529	Salonen, Mr. Johan Werner
## 530	Hocking, Mr. Richard George
## 531	Quick, Miss. Phyllis May
## 532	Toufik, Mr. Nakli
## 533	Elias, Mr. Joseph Jr
## 534 ## 535	Peter, Mrs. Catherine (Catherine Rizk)
## 535 ## 536	Cacic, Miss. Marija
## 530 ## 537	Hart, Miss. Eva Miriam Butt, Major. Archibald Willingham
## 538	LeRoy, Miss. Bertha
## 539	Risien, Mr. Samuel Beard
## 540	Frolicher, Miss. Hedwig Margaritha
## 541	Crosby, Miss. Harriet R
## 542	Andersson, Miss. Ingeborg Constanzia
## 543	Andersson, Miss. Sigrid Elisabeth
## 544	Beane, Mr. Edward
## 545	Douglas, Mr. Walter Donald
## 546	Nicholson, Mr. Arthur Ernest
## 547	Beane, Mrs. Edward (Ethel Clarke)
## 548	Padro y Manent, Mr. Julian
## 549	Goldsmith, Mr. Frank John
## 550	Davies, Master. John Morgan Jr
## 551	Thayer, Mr. John Borland Jr
## 552	Sharp, Mr. Percival James R
## 553	O'Brien, Mr. Timothy
## 554	Leeni, Mr. Fahim ("Philip Zenni")
## 555	Ohman, Miss. Velin
## 556	Wright, Mr. George
## 557	Duff Gordon, Lady. (Lucille Christiana Sutherland) ("Mrs Morgan")
## 558	Robbins, Mr. Victor
## 559	Taussig, Mrs. Emil (Tillie Mandelbaum)
## 560	de Messemaeker, Mrs. Guillaume Joseph (Emma)
## 561	Morrow, Mr. Thomas Rowan
## 562	Sivic, Mr. Husein
## 563 ## 564	Norman, Mr. Robert Douglas
## 564 ## 565	Simmons, Mr. John
## 565 ## 566	Meanwell, Miss. (Marion Ogden)
## 566 ## 567	Davies, Mr. Alfred J
## 56 <i>1</i> ## 568	Stoytcheff, Mr. Ilia Paleson Mrs Nils (Alma Cornelia Berglund)
## 500	Palsson, Mrs. Nils (Alma Cornelia Berglund)

##	569	Doharr, Mr. Tannous
	570	Jonsson, Mr. Carl
	571	Harris, Mr. George
	572	Appleton, Mrs. Edward Dale (Charlotte Lamson)
	573	Flynn, Mr. John Irwin ("Irving")
	574	Kelly, Miss. Mary
	575	Rush, Mr. Alfred George John
	576	Patchett, Mr. George
	577	Garside, Miss. Ethel
	578 570	Silvey, Mrs. William Baird (Alice Munger)
	579 580	Caram, Mrs. Joseph (Maria Elias)
	581	Jussila, Mr. Eiriik Christy Miss Julio Pachol
	582	Christy, Miss. Julie Rachel Thayer, Mrs. John Borland (Marian Longstreth Morris)
	583	Downton, Mr. William James
	584	Ross, Mr. John Hugo
	585	Paulner, Mr. Uscher
	586	Taussig, Miss. Ruth
	587	Jarvis, Mr. John Denzil
	588	Frolicher-Stehli, Mr. Maxmillian
	589	Gilinski, Mr. Eliezer
	590	Murdlin, Mr. Joseph
	591	Rintamaki, Mr. Matti
	592	Stephenson, Mrs. Walter Bertram (Martha Eustis)
	593	Elsbury, Mr. William James
	594	Bourke, Miss. Mary
	595	Chapman, Mr. John Henry
##	596	Van Impe, Mr. Jean Baptiste
##	597	Leitch, Miss. Jessie Wills
##	598	Johnson, Mr. Alfred
##	599	Boulos, Mr. Hanna
##	600	Duff Gordon, Sir. Cosmo Edmund ("Mr Morgan")
##	601	Jacobsohn, Mrs. Sidney Samuel (Amy Frances Christy)
##	602	Slabenoff, Mr. Petco
##	603	Harrington, Mr. Charles H
	604	Torber, Mr. Ernst William
##	605	Homer, Mr. Harry ("Mr E Haven")
	606	Lindell, Mr. Edvard Bengtsson
	607	Karaic, Mr. Milan
	608	Daniel, Mr. Robert Williams
	609	Laroche, Mrs. Joseph (Juliette Marie Louise Lafargue)
	610	Shutes, Miss. Elizabeth W
	611	Andersson, Mrs. Anders Johan (Alfrida Konstantia Brogren)
	612	Jardin, Mr. Jose Neto
	613	Murphy, Miss. Margaret Jane
	614	Horgan, Mr. John
	615	Brocklebank, Mr. William Alfred
	616 617	Herman, Miss. Alice
	617 618	Danbom, Mr. Ernst Gilbert Lobb Mrs William Arthur (Cordolia K Stanlick)
	618 619	Lobb, Mrs. William Arthur (Cordelia K Stanlick)
	620	Becker, Miss. Marion Louise Gavey, Mr. Lawrence
	621	Yasbeck, Mr. Antoni
	622	Kimball, Mr. Edwin Nelson Jr
##	022	Almoall, PH. Edwill Nelson Ji

## 623	Nakid, Mr. Sahid
## 624	Hansen, Mr. Henry Damsgaard
## 625	Bowen, Mr. David John "Dai"
## 626	Sutton, Mr. Frederick
## 627	Kirkland, Rev. Charles Leonard
## 628	Longley, Miss. Gretchen Fiske
## 629	Bostandyeff, Mr. Guentcho
## 630	O'Connell, Mr. Patrick D
## 631	Barkworth, Mr. Algernon Henry Wilson
## 632	Lundahl, Mr. Johan Svensson
## 633	Stahelin-Maeglin, Dr. Max
## 634	Parr, Mr. William Henry Marsh
## 635	Skoog, Miss. Mabel
## 636	Davis, Miss. Mary
## 637	Leinonen, Mr. Antti Gustaf
## 638	Collyer, Mr. Harvey
## 639	Panula, Mrs. Juha (Maria Emilia Ojala)
## 640	Thorneycroft, Mr. Percival
## 641	Jensen, Mr. Hans Peder
## 642	Sagesser, Mlle. Emma
## 643	Skoog, Miss. Margit Elizabeth
## 644	Foo, Mr. Choong
## 645	Baclini, Miss. Eugenie
## 646	Harper, Mr. Henry Sleeper
## 647	Cor, Mr. Liudevit
## 648	Simonius-Blumer, Col. Oberst Alfons
## 649	Willey, Mr. Edward
## 650	Stanley, Miss. Amy Zillah Elsie
## 651	Mitkoff, Mr. Mito
## 652	Doling, Miss. Elsie
## 653	Kalvik, Mr. Johannes Halvorsen
## 654	O'Leary, Miss. Hanora "Norah"
## 655	Hegarty, Miss. Hanora "Nora"
## 656	Hickman, Mr. Leonard Mark
## 657	Radeff, Mr. Alexander
## 658	Bourke, Mrs. John (Catherine)
## 659	Eitemiller, Mr. George Floyd
## 660	Newell, Mr. Arthur Webster
## 661	Frauenthal, Dr. Henry William
## 662	Badt, Mr. Mohamed
## 663	Colley, Mr. Edward Pomeroy
## 664	Coleff, Mr. Peju
## 665	Lindqvist, Mr. Eino William
## 666	Hickman, Mr. Lewis
## 667	Butler, Mr. Reginald Fenton
## 668	Rommetvedt, Mr. Knud Paust
## 669	Cook, Mr. Jacob
## 670	Taylor, Mrs. Elmer Zebley (Juliet Cummins Wright)
## 671	Brown, Mrs. Thomas William Solomon (Elizabeth Catherine Ford)
## 672	Davidson, Mr. Thornton
## 673	Mitchell, Mr. Henry Michael
## 674	Wilhelms, Mr. Charles
## 675	Watson, Mr. Ennis Hastings
## 676	Edvardsson, Mr. Gustaf Hjalmar

##	677	Sawyer, Mr. Frederick Charles
	678	Turja, Miss. Anna Sofia
##	679	Goodwin, Mrs. Frederick (Augusta Tyler)
##	680	Cardeza, Mr. Thomas Drake Martinez
##	681	Peters, Miss. Katie
##	682	Hassab, Mr. Hammad
##	683	Olsvigen, Mr. Thor Anderson
##	684	Goodwin, Mr. Charles Edward
##	685	Brown, Mr. Thomas William Solomon
##	686	Laroche, Mr. Joseph Philippe Lemercier
##	687	Panula, Mr. Jaako Arnold
##	688	Dakic, Mr. Branko
##	689	Fischer, Mr. Eberhard Thelander
##	690	Madill, Miss. Georgette Alexandra
##	691	Dick, Mr. Albert Adrian
##	692	Karun, Miss. Manca
##	693	Lam, Mr. Ali
##	694	Saad, Mr. Khalil
##	695	Weir, Col. John
##	696	Chapman, Mr. Charles Henry
##	697	Kelly, Mr. James
##	698	Mullens, Miss. Katherine "Katie"
##	699	Thayer, Mr. John Borland
##	700	Humblen, Mr. Adolf Mathias Nicolai Olsen
##	701	Astor, Mrs. John Jacob (Madeleine Talmadge Force)
##	702	Silverthorne, Mr. Spencer Victor
##	703	Barbara, Miss. Saiide
##	704	Gallagher, Mr. Martin
##	705	Hansen, Mr. Henrik Juul
##	706	Morley, Mr. Henry Samuel ("Mr Henry Marshall")
##	707	Kelly, Mrs. Florence "Fannie"
##	708	Calderhead, Mr. Edward Pennington
##	709	Cleaver, Miss. Alice
##	710	Moubarek, Master. Halim Gonios ("William George")
##	711	Mayne, Mlle. Berthe Antonine ("Mrs de Villiers")
##	712	Klaber, Mr. Herman
##	713	Taylor, Mr. Elmer Zebley
##	714	Larsson, Mr. August Viktor
##	715	Greenberg, Mr. Samuel
##	716	Soholt, Mr. Peter Andreas Lauritz Andersen
##	717	Endres, Miss. Caroline Louise
##	718	Troutt, Miss. Edwina Celia "Winnie"
	719	McEvoy, Mr. Michael
	720	Johnson, Mr. Malkolm Joackim
	721	Harper, Miss. Annie Jessie "Nina"
##	722	Jensen, Mr. Svend Lauritz
	723	Gillespie, Mr. William Henry
	724	Hodges, Mr. Henry Price
##	725	Chambers, Mr. Norman Campbell
##	726	Oreskovic, Mr. Luka
##	727	Renouf, Mrs. Peter Henry (Lillian Jefferys)
##	728	Mannion, Miss. Margareth
##	729	Bryhl, Mr. Kurt Arnold Gottfrid
##	730	Ilmakangas, Miss. Pieta Sofia

##	731	Allen, Miss. Elisabeth Walton
##	732	Hassan, Mr. Houssein G N
##	733	Knight, Mr. Robert J
##	734	Berriman, Mr. William John
##	735	Troupiansky, Mr. Moses Aaron
##	736	Williams, Mr. Leslie
##	737	Ford, Mrs. Edward (Margaret Ann Watson)
##	738	Lesurer, Mr. Gustave J
##	739	Ivanoff, Mr. Kanio
##	740	Nankoff, Mr. Minko
	741	Hawksford, Mr. Walter James
	742	Cavendish, Mr. Tyrell William
	743	Ryerson, Miss. Susan Parker "Suzette"
	744	McNamee, Mr. Neal
	745	Stranden, Mr. Juho
	746	Crosby, Capt. Edward Gifford
	747	Abbott, Mr. Rossmore Edward
	748	Sinkkonen, Miss. Anna
	749	Marvin, Mr. Daniel Warner
	750	Connaghton, Mr. Michael
	751	Wells, Miss. Joan
	752	Moor, Master. Meier
	753	Vande Velde, Mr. Johannes Joseph
	754	Jonkoff, Mr. Lalio
	755 756	Herman, Mrs. Samuel (Jane Laver) Hamalainen, Master. Viljo
	757	Carlsson, Mr. August Sigfrid
	758	Bailey, Mr. Percy Andrew
	759	Theobald, Mr. Thomas Leonard
	760	Rothes, the Countess. of (Lucy Noel Martha Dyer-Edwards)
	761	Garfirth, Mr. John
##	762	Nirva, Mr. Iisakki Antino Aijo
##	763	Barah, Mr. Hanna Assi
##	764	Carter, Mrs. William Ernest (Lucile Polk)
##	765	Eklund, Mr. Hans Linus
##	766	Hogeboom, Mrs. John C (Anna Andrews)
##	767	Brewe, Dr. Arthur Jackson
##	768	Mangan, Miss. Mary
	769	Moran, Mr. Daniel J
	770	Gronnestad, Mr. Daniel Danielsen
	771	Lievens, Mr. Rene Aime
	772	Jensen, Mr. Niels Peder
	773	Mack, Mrs. (Mary)
	774	Elias, Mr. Dibo
	775	Hocking, Mrs. Elizabeth (Eliza Needs)
	776	Myhrman, Mr. Pehr Fabian Oliver Malkolm
	777	Tobin, Mr. Roger
	778	Emanuel, Miss. Virginia Ethel
	779 780	Kilgannon, Mr. Thomas J Robert, Mrs. Edward Scott (Elisabeth Walton McMillan)
	781	Ayoub, Miss. Banoura
	782	Dick, Mrs. Albert Adrian (Vera Gillespie)
	783	Long, Mr. Milton Clyde
	784	Johnston, Mr. Andrew G

##	785	Ali, Mr. William
	786	Harmer, Mr. Abraham (David Lishin)
	787	Sjoblom, Miss. Anna Sofia
	788	Rice, Master. George Hugh
	789	Dean, Master. Bertram Vere
	790	Guggenheim, Mr. Benjamin
	791	Keane, Mr. Andrew "Andy"
	792	Gaskell, Mr. Alfred
	793 794	Sage, Miss. Stella Anna
	795	Hoyt, Mr. William Fisher Dantcheff, Mr. Ristiu
	796	Otter, Mr. Richard
	797	Leader, Dr. Alice (Farnham)
	798	Osman, Mrs. Mara
	799	Ibrahim Shawah, Mr. Yousseff
	800	Van Impe, Mrs. Jean Baptiste (Rosalie Paula Govaert)
	801	Ponesell, Mr. Martin
##	802	Collyer, Mrs. Harvey (Charlotte Annie Tate)
##	803	Carter, Master. William Thornton II
##	804	Thomas, Master. Assad Alexander
##	805	Hedman, Mr. Oskar Arvid
##	806	Johansson, Mr. Karl Johan
##	807	Andrews, Mr. Thomas Jr
	808	Pettersson, Miss. Ellen Natalia
	809	Meyer, Mr. August
	810	Chambers, Mrs. Norman Campbell (Bertha Griggs)
	811	Alexander, Mr. William
	812	Lester, Mr. James
	813	Slemen, Mr. Richard James
	814	Andersson, Miss. Ebba Iris Alfrida
	815 816	Tomlin, Mr. Ernest Portage
	817	Fry, Mr. Richard Heininen, Miss. Wendla Maria
	818	Mallet, Mr. Albert
	819	Holm, Mr. John Fredrik Alexander
	820	Skoog, Master. Karl Thorsten
	821	Hays, Mrs. Charles Melville (Clara Jennings Gregg)
	822	Lulic, Mr. Nikola
	823	Reuchlin, Jonkheer. John George
##	824	Moor, Mrs. (Beila)
##	825	Panula, Master. Urho Abraham
##	826	Flynn, Mr. John
	827	Lam, Mr. Len
	828	Mallet, Master. Andre
	829	McCormack, Mr. Thomas Joseph
	830	Stone, Mrs. George Nelson (Martha Evelyn)
	831	Yasbeck, Mrs. Antoni (Selini Alexander)
	832	Richards, Master. George Sibley
	833	Saad, Mr. Amin
	834	Augustsson, Mr. Albert
	835	Allum, Mr. Owen George
	836	Compton, Miss. Sara Rebecca
	837 838	Pasic, Mr. Jakob Sirota, Mr. Maurice
##	000	Silota, mr. maurice

	839		Chip, Mr. Chang
	840		Marechal, Mr. Pierre
	841		Alhomaki, Mr. Ilmari Rudolf
	842		Mudd, Mr. Thomas Charles
	843		Serepeca, Miss. Augusta
	844		Lemberopolous, Mr. Peter L
	845		Culumovic, Mr. Jeso
	846		Abbing, Mr. Anthony
	847		Sage, Mr. Douglas Bullen
	848		Markoff, Mr. Marin
	849		Harper, Rev. John
	850		Goldenberg, Mrs. Samuel L (Edwiga Grabowska)
	851		Andersson, Master. Sigvard Harald Elias
	852 853		Svensson, Mr. Johan
	854		Boulos, Miss. Nourelain
	855		Lines, Miss. Mary Conover Carter, Mrs. Ernest Courtenay (Lilian Hughes)
	856		Aks, Mrs. Sam (Leah Rosen)
	857		Wick, Mrs. George Dennick (Mary Hitchcock)
	858		Daly, Mr. Peter Denis
	859		Baclini, Mrs. Solomon (Latifa Qurban)
	860		Razi, Mr. Raihed
	861		Hansen, Mr. Claus Peter
	862		Giles, Mr. Frederick Edward
	863		Swift, Mrs. Frederick Joel (Margaret Welles Barron)
##	864		Sage, Miss. Dorothy Edith "Dolly"
##	865		Gill, Mr. John William
##	866		Bystrom, Mrs. (Karolina)
##	867		Duran y More, Miss. Asuncion
##	868		Roebling, Mr. Washington Augustus II
##	869		van Melkebeke, Mr. Philemon
	870		Johnson, Master. Harold Theodor
	871		Balkic, Mr. Cerin
	872		Beckwith, Mrs. Richard Leonard (Sallie Monypeny)
	873		Carlsson, Mr. Frans Olof
	874		Vander Cruyssen, Mr. Victor
	875		Abelson, Mrs. Samuel (Hannah Wizosky)
	876		Najib, Miss. Adele Kiamie "Jane"
	877		Gustafsson, Mr. Alfred Ossian
	878		Petroff, Mr. Nedelio
	879		Laleff, Mr. Kristo
	880		Potter, Mrs. Thomas Jr (Lily Alexenia Wilson)
	881 882		Shelley, Mrs. William (Imanita Parrish Hall)
	883		Markun, Mr. Johann
	884		Dahlberg, Miss. Gerda Ulrika Banfield, Mr. Frederick James
	885		
	886		Sutehall, Mr. Henry Jr Rice, Mrs. William (Margaret Norton)
	887		Montvila, Rev. Juozas
	888		Graham, Miss. Margaret Edith
	889		Johnston, Miss. Catherine Helen "Carrie"
	890		Behr, Mr. Karl Howell
	891		Dooley, Mr. Patrick
##		Sex Age SibSp Parch	Ticket Fare Cabin

##		male	22	1	0	A/5 21171	7.25	<na></na>
##	2	female	38	1	0	PC 17599	71.2833	C85
##	3	female	26	0	0	STON/02. 3101282	7.925	<na></na>
##	4	female	35	1	0	113803	53.1	C123
##	5	male	35	0	0	373450	8.05	<na></na>
##	6	male	<na></na>	0	0	330877	8.4583	<na></na>
	7	male	54	0	0	17463	51.8625	E46
##	8	male	2	3	1	349909	21.075	<na></na>
	9	female	27	0	2	347742	11.1333	<na></na>
	10	female	14	1	0	237736	30.0708	<na></na>
##	11	female	4	1	1	PP 9549	16.7	G6
##	12	female	58	0	0	113783	26.55	C103
##	13	male	20	0	0	A/5. 2151	8.05	<na></na>
##	14	male	39	1	5	347082	31.275	<na></na>
##	15	female	14	0	0	350406	7.8542	<na></na>
##	16	female	55	0	0	248706	16	<na></na>
##	17	male	2	4	1	382652	29.125	<na></na>
##	18	male		0	0	244373	13	<na></na>
	19 20	female female	31	1 0	0	345763	18	<na></na>
	21	male	35	0	0	2649	7.225 26	<na></na>
	22	male	34	0	0	239865 248698	13	D56
	23			0	0			<na></na>
	23 24	female male	15 28	0	0	330923 113788	8.0292 35.5	A6
	25	female	8	3	1	349909	21.075	<na></na>
	26	female	38	1	5	347077	31.3875	<na></na>
	27	male		0	0	2631	7.225	<na></na>
	28	male	19	3	2	19950	263	C23 C25 C27
	29	female		0	0	330959	7.8792	<na></na>
	30	male		0	0	349216	7.8958	<na></na>
	31	male	40	0	0	PC 17601	27.7208	<na></na>
	32	female		1	0	PC 17569		B78
	33	female		0	0	335677	7.75	<na></na>
	34	male	66	0	0	C.A. 24579	10.5	<na></na>
##	35	male	28	1	0	PC 17604	82.1708	<na></na>
##	36	male	42	1	0	113789	52	<na></na>
##	37	male	<na></na>	0	0	2677	7.2292	<na></na>
##	38	male	21	0	0	A./5. 2152	8.05	<na></na>
##	39	female	18	2	0	345764	18	<na></na>
##	40	female	14	1	0	2651	11.2417	<na></na>
##	41	female	40	1	0	7546	9.475	<na></na>
##	42	female	27	1	0	11668	21	<na></na>
##	43	male	<na></na>	0	0	349253	7.8958	<na></na>
##	44	female	3	1	2	SC/Paris 2123	41.5792	<na></na>
##	45	female	19	0	0	330958	7.8792	<na></na>
	46	male		0	0	S.C./A.4. 23567	8.05	<na></na>
	47	male		1	0	370371	15.5	<na></na>
	48	female		0	0	14311	7.75	<na></na>
	49	male		2	0	2662	21.6792	<na></na>
	50	female	18	1	0	349237	17.8	<na></na>
	51	male	7	4	1	3101295	39.6875	<na></na>
	52	male	21	0	0	A/4. 39886	7.8	<na></na>
	53	female	49	1	0	PC 17572	76.7292	D33
##	54	female	29	1	0	2926	26	<na></na>

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	55	male	65	0	1	113509	61.9792	B30
##		male		0	0	19947	35.5	C52
	57	female	21	0	0	C.A. 31026	10.5	<na></na>
##		male		0	0	2697	7.2292	<na></na>
##		female	5	1	2	C.A. 34651	27.75	<na></na>
	60	male	11	5	2	CA 2144	46.9	<na></na>
##		male	22	0	0	2669	7.2292	<na></na>
##		female	38	0	0	113572	80	B28
##		male	45	1	0	36973	83.475	C83
	64	male	4	3	2	347088	27.9	<na></na>
	65	male		0	0	PC 17605	27.7208	<na></na>
##		male		1	1	2661	15.2458	<na></na>
##	67	female	29	0	0	C.A. 29395	10.5	F33
##	68	male	19	0	0	S.P. 3464	8.1583	<na></na>
##	69	${\tt female}$	17	4	2	3101281	7.925	<na></na>
##	70	male	26	2	0	315151	8.6625	<na></na>
##	71	male	32	0	0	C.A. 33111	10.5	<na></na>
##	72	${\tt female}$	16	5	2	CA 2144	46.9	<na></na>
##	73	male	21	0	0	S.O.C. 14879	73.5	<na></na>
##	74	male	26	1	0	2680	14.4542	<na></na>
##	75	male	32	0	0	1601	56.4958	<na></na>
##	76	male	25	0	0	348123	7.65	F G73
##	77	male	<na></na>	0	0	349208	7.8958	<na></na>
##	78	male	<na></na>	0	0	374746	8.05	<na></na>
##	79	male	0.83	0	2	248738	29	<na></na>
##	80	female	30	0	0	364516	12.475	<na></na>
##	81	male	22	0	0	345767	9	<na></na>
##	82	male	29	0	0	345779	9.5	<na></na>
##	83	female	<na></na>	0	0	330932	7.7875	<na></na>
##	84	male	28	0	0	113059	47.1	<na></na>
##	85	female	17	0	0	SO/C 14885	10.5	<na></na>
##	86	female	33	3	0	3101278	15.85	<na></na>
##	87	male	16	1	3	W./C. 6608	34.375	<na></na>
##	88	male	<na></na>	0	0	SOTON/OQ 392086	8.05	<na></na>
	89	female	23	3	2	19950	263	C23 C25 C27
	90	male	24	0	0	343275	8.05	<na></na>
##	91	male	29	0	0	343276	8.05	<na></na>
##		male	20	0	0	347466	7.8542	<na></na>
##		male	46	1	0	W.E.P. 5734	61.175	E31
	94	male	26	1	2	C.A. 2315	20.575	<na></na>
##		male	59	0	0	364500	7.25	<na></na>
##		male		0	0	374910	8.05	<na></na>
	97	male	71	0	0	PC 17754	34.6542	A5
	98	male	23	0	1	PC 17759	63.3583	D10 D12
	99	female	34	0	1	231919	23	<na></na>
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		female	28	0	0	349245	7.8958	<na></na>
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	103	male	21	0	1	35281	77.2875	D26
	103	male	33	0	0	7540	8.6542	<na></na>
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##	100	mala.	20	0	^	240240	7 0050	~N1 A >
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##	120	${\tt female}$	2	4	2	347082	31.275	<na></na>
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##	126	male	12	1	0	2651	11.2417	<na></na>
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	430	male	32	0	0	SOTON/O.Q. 392078	8.05	E10
	431	male	28	0	0	110564	26.55	C52
		female		1	0	376564	16.1	<na></na>
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##	436	${\tt female}$	14	1	2	113760	120	B96 B98
##	437	${\tt female}$	21	2	2	W./C. 6608	34.375	<na></na>
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	454	male	49	1	0	17453	89.1042	C92
	455 456	male		0	0	A/5 2817	8.05	<na></na>
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	623 624	male	20	1 0	1	2653 350029	15.7417	<na></na>
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		female	27	0	0	34218	10.5	E101
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	742	male	36	1	0	19877		C46
		female	21	2	2	PC 17608		B57 B59 B63 B66
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##	751	${\tt female}$	4	1	1	29103	23	<na></na>
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##	753	male	33	0	0	345780	9.5	<na></na>
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	784	male		1	2	W./C. 6607	23.45	<na></na>
$\pi\pi$							20.40	'III'
##							7 05	
	785	male	25	0	0	SOTON/O.Q. 3101312	7.05 7.25	<na></na>
##	785 786	male male	25 25	0 0	0	SOTON/O.Q. 3101312 374887	7.25	<na></na>
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## ## ##	785 786 787 788	male male female male	25 25 18 8	0 0 0 4	0 0 0 1	SOTON/O.Q. 3101312 374887 3101265 382652	7.25 7.4958 29.125	<na> <na> <na> <na></na></na></na></na>
## ## ## ##	785 786 787 788 789	male male female male	25 25 18 8 1	0 0 0 4 1	0 0 0 1 2	SOTON/O.Q. 3101312 374887 3101265 382652 C.A. 2315	7.25 7.4958 29.125 20.575	<na> <na> <na> <na> <na></na></na></na></na></na>
## ## ## ##	785 786 787 788 789 790	male male female male male	25 25 18 8 1 46	0 0 0 4 1	0 0 0 1 2	SOTON/O.Q. 3101312 374887 3101265 382652 C.A. 2315 PC 17593	7.25 7.4958 29.125 20.575 79.2	<na> <na> <na> <na> <na> NA> B82 B84</na></na></na></na></na>
## ## ## ## ##	785 786 787 788 789 790 791	male male female male male male	25 25 18 8 1 46 <na></na>	0 0 0 4 1 0	0 0 0 1 2 0	SOTON/O.Q. 3101312 374887 3101265 382652 C.A. 2315 PC 17593 12460	7.25 7.4958 29.125 20.575 79.2 7.75	<na> <na> <na> <na> <na> B82 B84 <na></na></na></na></na></na></na>
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## ## ## ## ## ##	785 786 787 788 789 790 791 792 793	male male female male male male male female	25 25 18 8 1 46 <\NA> 16 <\NA>	0 0 0 4 1 0 0	0 0 0 1 2 0 0 0	SOTON/O.Q. 3101312 374887 3101265 382652 C.A. 2315 PC 17593 12460 239865 CA. 2343	7.25 7.4958 29.125 20.575 79.2 7.75 26 69.55	<na> <na> <na> <na> <na> <na> <na> <na></na></na></na></na></na></na></na></na>
## ## ## ## ## ##	785 786 787 788 789 790 791 792 793 794	male male female male male male female male	25 25 18 8 1 46 <na> 16 <na></na></na>	0 0 0 4 1 0 0 0 8	0 0 0 1 2 0 0 0 2	SOTON/O.Q. 3101312 374887 3101265 382652 C.A. 2315 PC 17593 12460 239865 CA. 2343 PC 17600	7.25 7.4958 29.125 20.575 79.2 7.75 26 69.55 30.6958	<na> <na> <na> <na> <na> <na> <na> <na></na></na></na></na></na></na></na></na>
## ## ## ## ## ##	785 786 787 788 789 790 791 792 793 794 795	male male female male male male male male male male	25 25 18 8 1 46 <\NA> 16 <\NA> 25	0 0 0 4 1 0 0 0 8 0	0 0 0 1 2 0 0 0 2 0	SOTON/O.Q. 3101312 374887 3101265 382652 C.A. 2315 PC 17593 12460 239865 CA. 2343 PC 17600 349203	7.25 7.4958 29.125 20.575 79.2 7.75 26 69.55 30.6958 7.8958	<na> <na> <na> <na> <na> <na> <na> <na></na></na></na></na></na></na></na></na>
## ## ## ## ## ## ##	785 786 787 788 789 790 791 792 793 794 795 796	male male female male male male male male male female male male	25 25 18 8 1 46 <na> 16 <na> <na> 39</na></na></na>	0 0 4 1 0 0 0 8 0	0 0 0 1 2 0 0 0 2 0 0	SOTON/O.Q. 3101312 374887 3101265 382652 C.A. 2315 PC 17593 12460 239865 CA. 2343 PC 17600 349203 28213	7.25 7.4958 29.125 20.575 79.2 7.75 26 69.55 30.6958 7.8958 13	<na> <na> <na> <na> <na> <na> <na> <na></na></na></na></na></na></na></na></na>
## ## ## ## ## ## ##	785 786 787 788 790 791 792 793 794 795 796 797	male male female male male male male male female male female female	25 25 18 8 1 46 <na> 16 <na> 25 39 49</na></na>	0 0 0 4 1 0 0 0 8 0 0	0 0 0 1 2 0 0 0 2 0 0	SOTON/O.Q. 3101312 374887 3101265 382652 C.A. 2315 PC 17593 12460 239865 CA. 2343 PC 17600 349203 28213 17465	7.25 7.4958 29.125 20.575 79.2 7.75 26 69.55 30.6958 7.8958 13 25.9292	<na> <na> <na> <na> <na> <na> <na> <na></na></na></na></na></na></na></na></na>
## ## ## ## ## ## ## ##	785 786 787 788 790 791 792 793 794 795 796 797 798	male male female male male male male female female female female	25 18 8 1 46 <na> 16 <na> 25 39 49 31</na></na>	0 0 0 4 1 0 0 0 8 0 0 0	0 0 0 1 2 0 0 0 2 0 0 0 0	SOTON/O.Q. 3101312 374887 3101265 382652 C.A. 2315 PC 17593 12460 239865 CA. 2343 PC 17600 349203 28213 17465 349244	7.25 7.4958 29.125 20.575 79.2 7.75 26 69.55 30.6958 7.8958 13 25.9292 8.6833	<na> <na> <na> <na> <na> <na> <na> <na></na></na></na></na></na></na></na></na>
## ## ## ## ## ## ## ## ## ## ## ## ##	785 786 787 788 789 790 791 792 793 794 795 796 797 798 799	male male male male male male male male	25 18 8 1 46 <na> 16 <na> 25 39 49 31 30</na></na>	0 0 0 4 1 0 0 0 8 0 0 0	0 0 0 1 2 0 0 0 2 0 0 0 0 0	SOTON/O.Q. 3101312 374887 3101265 382652 C.A. 2315 PC 17593 12460 239865 CA. 2343 PC 17600 349203 28213 17465 349244 2685	7.25 7.4958 29.125 20.575 79.2 7.75 26 69.55 30.6958 7.8958 13 25.9292 8.6833 7.2292	<na> <na> <na> <na> <na> <na> <na> <na></na></na></na></na></na></na></na></na>
## ## ## ## ## ## ## ## ## ## ## ## ##	785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800	male male male male male male male male	25 18 8 1 46 <na> 16 <na> 25 39 49 31 30 30</na></na>	0 0 0 4 1 0 0 0 8 0 0 0 0 0	0 0 0 1 2 0 0 0 0 2 0 0 0 0 0 0	SOTON/O.Q. 3101312 374887 3101265 382652 C.A. 2315 PC 17593 12460 239865 CA. 2343 PC 17600 349203 28213 17465 349244 2685 345773	7.25 7.4958 29.125 20.575 79.2 7.75 26 69.55 30.6958 7.8958 13 25.9292 8.6833 7.2292 24.15	<na> <na> <na> <na> <na> <na> <na> <na></na></na></na></na></na></na></na></na>
######################################	785 786 787 788 789 790 791 792 793 794 795 796 797 798 800 801	male male male male male male male male	25 18 8 1 46 <na> 16 <na> 25 39 49 31 30 30 34</na></na>	0 0 0 4 1 0 0 0 8 0 0 0 0 0 0	0 0 0 1 2 0 0 0 0 0 0 0 0 0 0 0 0	SOTON/O.Q. 3101312 374887 3101265 382652 C.A. 2315 PC 17593 12460 239865 CA. 2343 PC 17600 349203 28213 17465 349244 2685 345773 250647	7.25 7.4958 29.125 20.575 79.2 7.75 26 69.55 30.6958 7.8958 13 25.9292 8.6833 7.2292 24.15 13	<na> <na> <na> <na> <na> <na> <na> <na></na></na></na></na></na></na></na></na>
######################################	785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802	male male male male male male male female male female female female female female female	25 18 8 1 46 <na> 16 <na> 25 39 49 31 30 30 34 31</na></na>	0 0 0 4 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SOTON/O.Q. 3101312 374887 3101265 382652 C.A. 2315 PC 17593 12460 239865 CA. 2343 PC 17600 349203 28213 17465 349244 2685 345773 250647 C.A. 31921	7.25 7.4958 29.125 20.575 79.2 7.75 26 69.55 30.6958 7.8958 13 25.9292 8.6833 7.2292 24.15 13 26.25	<na> <na> <na> <na> <na> <na> <na> <na></na></na></na></na></na></na></na></na>
# # # # # # # # # # # # # # # # # # #	785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803	male male male male male male male male	25 18 8 1 46 <na> 25 39 49 31 30 30 34 31 11</na>	0 0 0 4 1 0 0 0 8 0 0 0 0 0 0	0 0 0 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 1 1 0 0 0 1 0 0 1 0 0 1 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 0 0 0 0 0 0 0 0 0 0 1 0 0 1 0 0 0 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 1 0 0 1 1 0 1 1 0 1 0 1 1 0 1 1 0 1 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0	SOTON/O.Q. 3101312 374887 3101265 382652 C.A. 2315 PC 17593 12460 239865 CA. 2343 PC 17600 349203 28213 17465 349244 2685 345773 250647 C.A. 31921 113760	7.25 7.4958 29.125 20.575 79.2 7.75 26 69.55 30.6958 7.8958 13 25.9292 8.6833 7.2292 24.15 13 26.25 120	<na> <na> <na> <na> <na> <na> <na> <na></na></na></na></na></na></na></na></na>
######################################	785 786 787 788 789 790 791 792 793 794 795 796 797 798 800 801 802 803 804	male male male male male male male female male female female female female female male female male	25 18 8 1 46 <na> 25 39 49 31 30 30 34 31 11</na>	0 0 0 4 1 0 0 0 0 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SOTON/O.Q. 3101312 374887 3101265 382652 C.A. 2315 PC 17593 12460 239865 CA. 2343 PC 17600 349203 28213 17465 349244 2685 345773 250647 C.A. 31921 113760 2625	7.25 7.4958 29.125 20.575 79.2 7.75 26 69.55 30.6958 7.8958 13 25.9292 8.6833 7.2292 24.15 13 26.25 120 8.5167	<na> <na> <na> <na> <na> <na> <na> <na></na></na></na></na></na></na></na></na>
########################	785 786 787 788 789 790 791 792 793 794 795 796 797 798 800 801 802 803 804 805	male male male male male male male male	25 18 8 1 46 <na> 16 <na> 25 39 49 31 30 30 34 31 11 0.42 27</na></na>	0 0 0 4 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 1 1 0 0 0 1 0 0 1 0 0 1 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 0 0 0 0 0 0 0 0 0 0 1 0 0 1 0 0 0 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 1 0 0 1 1 0 1 1 0 1 0 1 1 0 1 1 0 1 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0	SOTON/O.Q. 3101312 374887 3101265 382652 C.A. 2315 PC 17593 12460 239865 CA. 2343 PC 17600 349203 28213 17465 349244 2685 345773 250647 C.A. 31921 113760 2625 347089	7.25 7.4958 29.125 20.575 79.2 7.75 26 69.55 30.6958 7.8958 13 25.9292 8.6833 7.2292 24.15 13 26.25 120 8.5167 6.975	<na> <na> <na> <na> <na> <na> <na> <na></na></na></na></na></na></na></na></na>
#########################	785 786 787 788 790 791 792 793 794 795 796 797 798 800 801 802 803 804 805 806	male male male male male male male male	25 18 8 1 46 <na> 16 <na> 25 39 49 31 30 30 34 31 11 0.42</na></na>	0 0 0 4 1 0 0 0 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0	SOTON/O.Q. 3101312	7.25 7.4958 29.125 20.575 79.2 7.75 26 69.55 30.6958 7.8958 13 25.9292 8.6833 7.2292 24.15 13 26.25 120 8.5167	<na> <na> <na> <na> <na> <na> <na> <na></na></na></na></na></na></na></na></na>
#########################	785 786 787 788 789 790 791 792 793 794 795 796 797 798 800 801 802 803 804 805 806 807	male male male male male male male male	25 18 8 1 46 <na> 16 <na> 25 39 49 31 30 30 34 31 11 0.42 27 31</na></na>	0 0 0 4 1 0 0 0 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0	SOTON/O.Q. 3101312	7.25 7.4958 29.125 20.575 79.2 7.75 26 69.55 30.6958 7.8958 13 25.9292 8.6833 7.2292 24.15 13 26.25 120 8.5167 6.975 7.775 0	<na> <na> <na> <na> <na> <na> <na> <na></na></na></na></na></na></na></na></na>
#########################	785 786 787 788 789 790 791 792 793 794 795 796 797 798 800 801 802 803 804 805 806 807 808	male male male male male male male male	25 18 8 1 46 <na> 16 <na> 25 39 49 31 30 30 34 31 11 0.42 27 31 39</na></na>	0 0 0 4 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SOTON/O.Q. 3101312	7.25 7.4958 29.125 20.575 79.2 7.75 26 69.55 30.6958 7.8958 13 25.9292 8.6833 7.2292 24.15 13 26.25 120 8.5167 6.975 7.775	<na> <na> <na> <na> <na> <na> <na> <na></na></na></na></na></na></na></na></na>
#############################	785 786 787 788 789 790 791 792 793 794 795 796 797 798 800 801 802 803 804 805 806 807 808 809	male male male male male male male male	25 18 8 1 46 <na> 16 <na> 25 39 49 31 30 30 34 31 11 0.42 27 31 39 18</na></na>	0 0 0 4 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0	SOTON/O.Q. 3101312	7.25 7.4958 29.125 20.575 79.2 7.75 26 69.55 30.6958 7.8958 13 25.9292 8.6833 7.2292 24.15 13 26.25 120 8.5167 6.975 7.775 0 7.775	<na> <na> <na> <na> <na> <na> <na> <na></na></na></na></na></na></na></na></na>

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		female	28	1	0	P/PP 3381	24	<na></na>
		female	15	0	0	2667	7.225	<na></na>
	877	male	20	0	0	7534	9.8458	<na></na>
	878	male	19	0	0	349212	7.8958	<na></na>
	879	male female	56	0	0	349217 11767	7.8958 83.1583	<na> C50</na>
		female	25	0	1 1	230433	26	<na></na>
	882	male	33	0	0	349257	7.8958	<na></na>
		female	22	0	0	7552	10.5167	<na></na>
	884	male	28	0	0	C.A./SOTON 34068	10.5	<na></na>
	885	male	25	0	0	SOTON/OQ 392076	7.05	<na></na>
		female	39	0	5	382652	29.125	<na></na>
	887	male	27	0	0	211536	13	<na></na>
##	888	female	19	0	0	112053	30	B42
##	889	female	<na></na>	1	2	W./C. 6607	23.45	<na></na>
##	890	male	26	0	0	111369	30	C148
##	891	male	32	0	0	370376	7.75	<na></na>
##		Embark						
##			S					
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##			S					
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	23 24		Q S					
	24 25		S					
	26		S					
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##	27	С
##	28	S
##	29	Q
##	30	S
##	31	C
##	32	C
##	33	Q
##	34	S
##	35	C
##	36	S
##	37	C
##	38	S
##	39	S
##	40	C
##	41	S
##	42	S
##	43	C
##	44	C
##	45	Q
##	46	S
##	47	Q
##	48	Q
##	49	C
##	50 51	S
##	51	S
## ##	52 53	S C
##	54	S
##	55	C
##	56	S
##	57	S
##	58	C
##	59	S
##	60	S
##	61	С
##	62	<na></na>
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##	65	C
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##	68	S
##	69	S
##	70	S
##	71	S
##	72	S
##	73	S
##	74	C
##	75 76	S
##	76 77	S S
##	77 78	S
##	78 79	S
##	80	S
11 TT	50	b

## ## ## ## ##	81 82 83 84 85 86	ននទូនន
##	87	S
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##	90	S
##	91	S
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##	95	S
##	96	S
##	97 98	C
##	99	S
##	100	S
##	101	S
##	102	S
##	103	S
##	104	S
##	105	S
## ##	106 107	S S
##	107	S
##	109	S
##	110	Q
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##	114	S
##	115	C S
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##	133	S
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##	142	S
##	143	S
##	144	Q
##	145	S
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## ##	148	S S
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##	156	С
##	157	Q
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##	173	Q S
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##	175	C
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##	178	С
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##	180	S
##	181	S
##	182	С
##	183	S
##	184	S
##	185	S
##	186	S
##	187	Q
##	188	S

## ## ## ## ## ##	189 190 191 192 193 194 195 196 197	Q S S S S S C C Q
##	198	S
##	199	Q
##	200	S
##	201 202	S S
## ##	202	S
##	204	C
##	205	S
##	206	S
##	207	S
##	208	С
##	209	Q
##	210	C
##	211	S
##	212	S
##	213	S
##	214	S
##	215	Q C
## ##	216217	S
##	218	S
##	219	С
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##	223	S
##	224	S
##	225	S
##	226	S
##	227	S
##	228	S
##	229230	S S
##	231	S
##	232	S
##	233	S
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##	237	S
##	238	S
##	239	S
##	240	S
##	241	C
##	242	Q

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##	243	S
##	244	S
##	245	С
##	246	Q
##	247	S
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##	280	S
##	281	Q
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##	289	S
##	290	Q
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##	295	S
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## ##	297 298	C S
##	299	S
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##	301	Q
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##	303	S
##	304	Q
##	305	S
##	306	S
##	307	C C
##	308 309	C
##	310	C
##	311	C
##	312	C
##	313	S
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##	318	S
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##	320	C
##	321	S
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##	323 324	Q S
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##	326	C
##	327	S
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##	336	S
##	337	S C
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##	349	S
##	350	S

##	351	S
##	352	S
##	353	C
##	354	S
##	355	C
##	356	S
##	357	S
##	358	S
##	359	Q
##	360	Q
##	361	S
##	362	С
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##	364	S
##	365	Q
##	366	S
##	367	C
##	368	C
##	369	Q
##	370	٧ ر
##	371	c
##	372	ď
##	373	o O
##	374	C
##	375	ď
##	376	C
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##	379	C
##	380	ď
##	381	C
##	382	c
##	383	$\texttt{C} \; \texttt{C} \; \texttt{22} \; \texttt{22} \; \texttt{C} \; \texttt{22} \; \texttt{C} \; \texttt{22} \; \texttt{C} \; \texttt{22} \; \texttt{23} \; \texttt{24} \; \texttt$
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##	387	S
##	388	S
##	389	Q
##	390	C
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##	392	S
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##	394	C
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##	397	S
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11 TT	-104	J

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##	418	S
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##	420	S
##	421	C
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##	470	Q C
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	472	S
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##	528	S
##	529	S
##	530	S
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##	540	C
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##	542	S
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##	544 545	C
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##	642	C
##	643	S
##	644	S S C
##	645	С
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##	650	S
##	651	S
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##	655	Q
##	656	S
##	657	S
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##	685	S
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##	729	S	
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##	745	S	
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##	747	S	
##	748	S	
##	749	S	
##	750	Q	
##	751	S	
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##	761	S	
##	762	S	
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##	765	S	
##	766	S	
##	767	C	
##	768	Q	
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##	770	S	
##	771	S	
##	772	S	
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##	774	C	
##	775	S	
##	776	S	
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##	779	Q	
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##	839	S
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##	856	S
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##	869	S
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##	872	S
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##	874	S
##	875	C
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##	878	S
##	879	S
##	880	C
##	881	S
##	882	S
##	883	S
##	884	S
##	885	S
##	886	Q
##	887	S
##	888	S
##	889	S
##	890	C

```
## 891 Q
```

primer_query |> class()

[1] "data.frame"