# R - Practice 01

## $Sangkon\, Han (sangkon@pusan.ac.kr)$

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# Contents

dp		2
	•	2
		2
	$\mathrm{mutate}() \ / \ \mathrm{transmute}() \ \ldots \ldots \ldots \ldots \ldots \ldots \ldots$	4
	Manipulate variables(row)	6
		6
	arrange	8
	distinct	9
	Sample rows	0
	summarise	1
	group_by()	2
	$\operatorname{count}() \dots \dots$	3
	pipe operator %>%	4
	$pivoting() \dots \dots$	5
	separating and uniting	6
	separate()	7
	unite()	1
	dplyr and tidyr in action	5
	pull() - extract column as vector	5
	$group\_by() + mutate() \dots \dots$	5
	case_when() - case when statements	6
	row_number() - add ranks	6
	Transform table holding flights data	7
	count number of rows/columns, different flights	7
	how many columns begin with word "Taxi"?	2
	how many flights were flown less than 1000 miles / greater or equal than 1000 miles 31	2
	flights per carrier - sort by top to bottom	2
	number of cancelled flights per carrier	3
	percentage of cancelled flights per carrier	3
	create column date by combining year $+$ month $+$ dayofmonth (remove this columns) 31	4
	check date range	4
	Column-wise operations: across()	5
	summarise() & across()	5
	$summarise() \sim group\_by() \& across() \dots \dots$	7
	mutate() & across()	8
	$mutate() \sim group\_by() \& across() \dots 31$	8

#### dplyr & tidyr

```
df <- mpg
str(df)
## tibble [234 x 11] (S3: tbl_df/tbl/data.frame)
## $ manufacturer: chr [1:234] "audi" "audi" "audi" "audi" ...
## $ model : chr [1:234] "a4" "a4" "a4" "a4" ...
## $ displ
                : num [1:234] 1.8 1.8 2 2 2.8 2.8 3.1 1.8 1.8 2 ...
                : int [1:234] 1999 1999 2008 2008 1999 1999 2008 1999 1999 2008 ...
## $ year
                : int [1:234] 4 4 4 4 6 6 6 4 4 4 ...
## $ cyl
                : chr [1:234] "auto(15)" "manual(m5)" "manual(m6)" "auto(av)" ...
## $ trans
## $ drv
                : chr [1:234] "f" "f" "f" "f" ...
## $ cty
                : int [1:234] 18 21 20 21 16 18 18 18 16 20 ...
                : int [1:234] 29 29 31 30 26 26 27 26 25 28 ...
## $ hwy
                 : chr [1:234] "p" "p" "p" "p" ...
## $ fl
                 : chr [1:234] "compact" "compact" "compact" ...
## $ class
nrow(df); ncol(df)
## [1] 234
## [1] 11
Manipulate variables(columns)
select(), rename()
df.car.info <- select(df, manufacturer, model, year)</pre>
select(df, starts with(match = "m"))
## # A tibble: 234 x 2
##
     manufacturer model
##
     <chr> <chr>
## 1 audi
                 a4
## 2 audi
                 a4
## 3 audi
                 a4
## 4 audi
                a4
## 5 audi
                a4
## 6 audi
                 a4
## 7 audi
                a4
## 8 audi
                 a4 quattro
## 9 audi
                  a4 quattro
## 10 audi
                  a4 quattro
## # i 224 more rows
select(df, contains(match = "r"))
## # A tibble: 234 x 4
##
     manufacturer year trans
                                  drv
##
     <chr> <int> <chr>
## 1 audi
                 1999 auto(15)
## 2 audi
                 1999 manual(m5) f
## 3 audi
                 2008 manual(m6) f
## 4 audi
                 2008 auto(av)
## 5 audi
                 1999 auto(15)
```

```
## 6 audi
                   1999 manual(m5) f
## 7 audi
                   2008 auto(av)
## 8 audi
                   1999 manual(m5) 4
                   1999 auto(15)
## 9 audi
## 10 audi
                   2008 manual(m6) 4
## # i 224 more rows
select(df, ends_with(match = "y"))
## # A tibble: 234 x 2
##
       cty
             hwy
##
     <int> <int>
##
  1
        18
              29
## 2
        21
              29
## 3
        20
              31
## 4
              30
        21
## 5
        16
              26
## 6
        18
              26
## 7
        18
              27
## 8
        18
              26
## 9
        16
              25
              28
## 10
        20
## # i 224 more rows
select(df, 1:3)
## # A tibble: 234 x 3
     manufacturer model
                           displ
##
     <chr>
                <chr>
                            <dbl>
## 1 audi
                 a4
                              1.8
## 2 audi
                a4
                              1.8
## 3 audi
                a4
## 4 audi
                a4
                a4
## 5 audi
                              2.8
## 6 audi
                a4
                              2.8
## 7 audi
                              3.1
                 a4
## 8 audi
                 a4 quattro
                              1.8
## 9 audi
                              1.8
                 a4 quattro
## 10 audi
                  a4 quattro
## # i 224 more rows
select(df, c(2,5,7))
## # A tibble: 234 x 3
##
     model cyl drv
##
     <chr>
                <int> <chr>
## 1 a4
                    4 f
                    4 f
## 2 a4
## 3 a4
                    4 f
## 4 a4
                    4 f
## 5 a4
                    6 f
## 6 a4
## 7 a4
                    6 f
## 8 a4 quattro
                    4 4
## 9 a4 quattro
                    4 4
## 10 a4 quattro
                    4 4
```

```
## # i 224 more rows
select(df, 9:11)
## # A tibble: 234 x 3
##
        hwy fl
                  class
##
      <int> <chr> <chr>
##
    1
         29 p
                  compact
## 2
         29 p
                  compact
         31 p
## 3
                 compact
## 4
         30 p
                  compact
## 5
         26 p
                 compact
## 6
         26 p
                 compact
## 7
         27 p
                  compact
## 8
         26 p
                  compact
## 9
         25 p
                  compact
## 10
         28 p
                  compact
## # i 224 more rows
select(df, (ncol(df)-2):ncol(df))
## # A tibble: 234 x 3
                  class
##
        hwy fl
##
      <int> <chr> <chr>
##
   1
         29 p
                  compact
## 2
         29 p
                  compact
         31 p
## 3
                  compact
## 4
        30 p
                  compact
## 5
         26 p
                  compact
## 6
         26 p
                  compact
## 7
         27 p
                  compact
         26 p
## 8
                  compact
## 9
         25 p
                  compact
## 10
         28 p
                  compact
## # i 224 more rows
df1 <- rename(df, mnfc = manufacturer, mod = model)</pre>
df1 <- select(df, mnfc = manufacturer, mod = model, everything())</pre>
mutate() / transmute()
df <- mutate(df, `avg miles per gallon` = (cty + hwy) / 2)</pre>
df <- mutate(df,</pre>
             car = paste(manufacturer, model, sep = " "),
             `cyl / trans` = paste(cyl, " cylinders", " / ", trans, " transmission", sep = ""))
df1 <- transmute(df,</pre>
                 `avg miles per gallon` = (cty + hwy) / 2)
df1
## # A tibble: 234 x 1
##
      `avg miles per gallon`
##
                        <dbl>
## 1
                        23.5
## 2
                         25
## 3
                        25.5
```

```
25.5
## 4
## 5
                        21
## 6
                        22
## 7
                        22.5
## 8
                        22
## 9
                        20.5
## 10
                        24
## # i 224 more rows
df2 <- mutate(df,
             car = paste(manufacturer, model, sep = " "),
             `cyl / trans` = paste(cyl, " cylinders", " / ", trans, " transmission", sep = ""))
df2
## # A tibble: 234 x 14
##
      manufacturer model
                              displ year
                                            cyl trans drv
                                                                    hwy fl
                                                                               class
                                                              cty
##
      <chr>
                   <chr>
                              <dbl> <int> <int> <chr> <int> <int> <int> <chr> <int> <int> <int> <chr>
## 1 audi
                                1.8 1999
                   a4
                                              4 auto~ f
                                                                     29 p
                                                                               comp~
                                                               18
## 2 audi
                                1.8 1999
                                                                     29 p
                   a4
                                              4 manu~ f
                                                               21
                                                                               comp~
## 3 audi
                                     2008
                   a4
                                2
                                              4 manu~ f
                                                               20
                                                                     31 p
                                                                               comp~
## 4 audi
                  a4
                                2
                                     2008
                                              4 auto~ f
                                                               21
                                                                     30 p
                                                                               comp~
## 5 audi
                                2.8 1999
                                                                     26 p
                  a4
                                              6 auto~ f
                                                               16
                                                                               comp~
## 6 audi
                                2.8 1999
                                              6 manu~ f
                  a4
                                                               18
                                                                     26 p
                                                                               comp~
## 7 audi
                                3.1 2008
                                              6 auto~ f
                  a4
                                                               18
                                                                     27 p
                                                                               comp~
## 8 audi
                  a4 quattro
                                                                     26 p
                                1.8 1999
                                              4 manu~ 4
                                                               18
                                                                               comp~
## 9 audi
                   a4 quattro
                                1.8 1999
                                              4 auto~ 4
                                                               16
                                                                     25 p
                                                                               comp~
## 10 audi
                   a4 quattro
                                2
                                     2008
                                              4 manu~ 4
                                                               20
                                                                     28 p
                                                                               comp~
## # i 224 more rows
## # i 3 more variables: `avg miles per gallon` <dbl>, car <chr>,
     `cyl / trans` <chr>
df2 <- transmute(df,
             car = paste(manufacturer, model, sep = " "),
             `cyl / trans` = paste(cyl, " cylinders", " / ", trans, " transmission", sep = ""))
df2
## # A tibble: 234 x 2
      car
                      `cyl / trans`
##
      <chr>
                      <chr>
   1 audi a4
                      4 cylinders / auto(15) transmission
## 2 audi a4
                      4 cylinders / manual(m5) transmission
## 3 audi a4
                      4 cylinders / manual(m6) transmission
                      4 cylinders / auto(av) transmission
## 4 audi a4
## 5 audi a4
                      6 cylinders / auto(15) transmission
## 6 audi a4
                      6 cylinders / manual(m5) transmission
                      6 cylinders / auto(av) transmission
## 7 audi a4
## 8 audi a4 quattro 4 cylinders / manual(m5) transmission
## 9 audi a4 quattro 4 cylinders / auto(15) transmission
## 10 audi a4 quattro 4 cylinders / manual(m6) transmission
## # i 224 more rows
```

#### Manipulate variables(row)

filter(), slice()

```
filter(df, manufacturer == "audi")
## # A tibble: 18 x 14
##
      manufacturer model
                               displ year
                                              cyl trans drv
                                                                       hwy fl
                                                                                  class
                                                                 cty
##
      <chr>
                   <chr>
                               <dbl> <int> <int> <chr> <int> <int> <int> <chr> <int> <int> <int> <chr>
                                                                        29 p
##
   1 audi
                                 1.8 1999
                                                4 auto~ f
                   a4
                                                                  18
                                                                                  comp~
                                 1.8 1999
##
   2 audi
                   a4
                                                4 manu~ f
                                                                  21
                                                                        29 p
                                                                                  comp~
                   a4
##
  3 audi
                                       2008
                                                4 manu~ f
                                                                  20
                                                                        31 p
                                                                                  comp~
##
  4 audi
                   a4
                                 2
                                       2008
                                                4 auto~ f
                                                                  21
                                                                        30 p
                                                                                  comp~
## 5 audi
                                 2.8 1999
                   a4
                                                6 auto~ f
                                                                  16
                                                                        26 p
                                                                                  comp~
##
   6 audi
                   a4
                                 2.8 1999
                                                6 manu~ f
                                                                  18
                                                                        26 p
                                                                                  comp~
                   a4
                                 3.1 2008
## 7 audi
                                                6 auto~ f
                                                                  18
                                                                        27 p
                                                                                  comp~
## 8 audi
                   a4 quattro
                                 1.8 1999
                                                4 manu~ 4
                                                                  18
                                                                        26 p
                                                                                  comp~
## 9 audi
                   a4 quattro
                                 1.8 1999
                                                4 auto~ 4
                                                                  16
                                                                        25 p
                                                                                  comp~
## 10 audi
                   a4 quattro
                                       2008
                                                                  20
                                 2
                                                4 manu~ 4
                                                                        28 p
                                                                                  comp~
                                       2008
## 11 audi
                   a4 quattro
                                 2
                                                4 auto~ 4
                                                                  19
                                                                        27 p
                                                                                  comp~
## 12 audi
                                 2.8 1999
                                                                        25 p
                   a4 quattro
                                                6 auto~ 4
                                                                  15
                                                                                  comp~
                                 2.8 1999
## 13 audi
                   a4 quattro
                                                6 manu~ 4
                                                                  17
                                                                        25 p
                                                                                  comp~
## 14 audi
                   a4 quattro
                                 3.1 2008
                                                6 auto~ 4
                                                                  17
                                                                        25 p
                                                                                  comp~
## 15 audi
                                 3.1 2008
                   a4 quattro
                                                6 manu~ 4
                                                                  15
                                                                        25 p
                                                                                  comp~
## 16 audi
                   a6 quattro
                                 2.8 1999
                                                6 auto~ 4
                                                                  15
                                                                        24 p
                                                                                  mids~
## 17 audi
                    a6 quattro
                                 3.1 2008
                                                                  17
                                                6 auto~ 4
                                                                        25 p
                                                                                  mids~
                                                                        23 p
## 18 audi
                    a6 quattro
                                 4.2 2008
                                                8 auto~ 4
                                                                  16
                                                                                  mids~
## # i 3 more variables: `avg miles per gallon` <dbl>, car <chr>,
       `cyl / trans` <chr>
filter(df, manufacturer == "audi" & year == 1999)
## # A tibble: 9 x 14
##
    manufacturer model
                              displ year
                                             cyl trans drv
                                                                 cty
                                                                       hwy fl
                                                                                  class
##
     <chr>
                  <chr>
                              <dbl> <int> <int> <chr> <int> <int> <chr> <int> <int> <chr> <int> <int> <chr> <
## 1 audi
                                1.8 1999
                                               4 auto(~ f
                  a4
                                                                  18
                                                                        29 p
                                                                                  comp~
                                                                        29 p
## 2 audi
                  a4
                                1.8 1999
                                               4 manua~ f
                                                                  21
                                                                                  comp~
## 3 audi
                                2.8 1999
                                               6 auto(~ f
                  a4
                                                                  16
                                                                        26 p
                                                                                  comp~
## 4 audi
                  a4
                                2.8 1999
                                               6 manua~ f
                                                                  18
                                                                        26 p
                                                                                  comp~
                                     1999
## 5 audi
                  a4 quattro
                                1.8
                                               4 manua~ 4
                                                                  18
                                                                        26 p
                                                                                  comp~
                                1.8
## 6 audi
                  a4 quattro
                                     1999
                                               4 auto(~ 4
                                                                  16
                                                                        25 p
                                                                                  comp~
                                                                        25 p
## 7 audi
                  a4 quattro
                                2.8
                                     1999
                                               6 auto(~ 4
                                                                  15
                                                                                  comp~
## 8 audi
                  a4 quattro
                                2.8
                                     1999
                                               6 manua~ 4
                                                                  17
                                                                        25 p
                                                                                  comp~
                  a6 quattro
                                2.8 1999
                                               6 auto(~ 4
                                                                  15
                                                                        24 p
                                                                                  mids~
## # i 3 more variables: `avg miles per gallon` <dbl>, car <chr>,
       `cyl / trans` <chr>
df1 <- filter(df, manufacturer == "audi" | manufacturer == "dodge")</pre>
df2 <- filter(df, manufacturer %in% c("audi", "dodge"))</pre>
filter(df, hwy >= 30)
## # A tibble: 26 x 14
      manufacturer model displ year
                                          cvl trans
                                                                       hwy fl
                                                                                  class
                                                         drv
                                                                 ctv
##
                           <dbl> <int> <int> <chr>
      <chr>
                    <chr>
                                                         <chr> <int> <int> <chr> <chr>
## 1 audi
                                  2008
                                            4 manual(m~ f
                                                                  20
                                                                        31 p
                                                                                  comp~
```

```
2008
    2 audi
                   a4
                            2
                                           4 auto(av) f
                                                                 21
                                                                       30 p
                                                                                comp~
   3 chevrolet
                            2.4
                                 2008
                                           4 auto(14)
                                                                 22
                                                                       30 r
                                                                                mids~
                   malibu
                                                       f
                                 1999
   4 honda
                   civic
                            1.6
                                           4 manual(m~ f
                                                                 28
                                                                       33 r
                                                                                subc~
  5 honda
                            1.6 1999
                                           4 auto(14)
                                                                       32 r
##
                   civic
                                                                 24
                                                                                subc~
                                                                       32 r
    6 honda
                   civic
                            1.6
                                 1999
                                           4 manual(m~ f
                                                                 25
                                                                                subc~
##
   7 honda
                            1.6
                                 1999
                                           4 auto(14)
                                                       f
                                                                 24
                                                                       32 r
                   civic
                                                                                subc~
                                                                       34 r
    8 honda
                            1.8
                                  2008
                                           4 manual(m~ f
                                                                 26
                                                                                subc~
                   civic
## 9 honda
                                 2008
                                           4 auto(15) f
                   civic
                            1.8
                                                                 25
                                                                       36 r
                                                                                subc~
## 10 honda
                   civic
                            1.8 2008
                                           4 auto(15) f
                                                                       36 c
                                                                                subc~
## # i 16 more rows
## # i 3 more variables: `avg miles per gallon` <dbl>, car <chr>,
       `cyl / trans` <chr>
filter(df, year != 1999)
## # A tibble: 117 x 14
      manufacturer model
                               displ vear
                                             cyl trans drv
                                                                ctv
                                                                      hwy fl
                                                                                class
##
      <chr>
                   <chr>
                               <dbl> <int> <int> <chr> <int> <int> <chr> <int> <int> <chr>
##
   1 audi
                                      2008
                                               4 manu~ f
                   a4
                                2
                                                                 20
                                                                       31 p
                                                                                comp~
##
    2 audi
                   a4
                                 2
                                      2008
                                               4 auto~ f
                                                                 21
                                                                       30 p
                                                                                comp~
    3 audi
                   a4
                                 3.1 2008
                                               6 auto~ f
                                                                 18
                                                                       27 p
                                                                                comp~
##
   4 audi
                   a4 quattro
                                 2
                                      2008
                                               4 manu~ 4
                                                                 20
                                                                       28 p
                                                                                comp~
    5 audi
                   a4 quattro
                                2
                                      2008
                                               4 auto~ 4
                                                                 19
                                                                       27 p
                                                                                comp~
##
  6 audi
                   a4 quattro
                                3.1 2008
                                               6 auto~ 4
                                                                 17
                                                                       25 p
                                                                                comp~
   7 audi
                   a4 quattro
                                3.1 2008
                                               6 manu~ 4
                                                                 15
                                                                       25 p
                                                                                comp~
                                3.1 2008
                                                                 17
## 8 audi
                   a6 quattro
                                               6 auto~ 4
                                                                       25 p
                                                                                mids~
                                                                       23 p
## 9 audi
                   a6 quattro
                                4.2 2008
                                               8 auto~ 4
                                                                 16
                                                                                mids~
## 10 chevrolet
                   c1500 sub~
                                5.3 2008
                                               8 auto~ r
                                                                       20 r
                                                                                suv
## # i 107 more rows
## # i 3 more variables: `avg miles per gallon` <dbl>, car <chr>,
       `cyl / trans` <chr>
slice(df, 1:5)
## # A tibble: 5 x 14
     manufacturer model displ year
                                       cyl trans
                                                      drv
                                                               cty
                                                                     hwy fl
                                                                               class
                  <chr> <dbl> <int> <int> <chr>
                                                      <chr> <int> <int> <chr> <chr>
                                                                      29 p
## 1 audi
                  a4
                          1.8 1999
                                         4 auto(15)
                                                      f
                                                                18
                                                                               compa~
## 2 audi
                          1.8 1999
                                         4 manual(m5) f
                  a4
                                                                21
                                                                      29 p
                                                                               compa~
## 3 audi
                           2
                                2008
                                         4 manual(m6) f
                                                                20
                  a4
                                                                      31 p
                                                                               compa~
                           2
                                2008
                                         4 auto(av)
                                                                      30 p
## 4 audi
                  a4
                                                      f
                                                                21
                                                                               compa~
## 5 audi
                          2.8 1999
                                         6 auto(15)
                                                      f
                                                                      26 p
                  a4
                                                                16
                                                                               compa~
## # i 3 more variables: `avg miles per gallon` <dbl>, car <chr>,
       `cyl / trans` <chr>
slice(df, 20:30)
## # A tibble: 11 x 14
      manufacturer model
##
                               displ year
                                             cyl trans drv
                                                                cty
                                                                      hwy fl
                                                                                class
      <chr>
                  <chr>
                               <dbl> <int> <int> <chr> <int> <int> <chr> <int> <int> <chr>
##
    1 chevrolet
                   c1500 sub~
                                5.3
                                     2008
                                                                       15 e
                                               8 auto~ r
                                                                 11
                                                                                SIIV
                                5.3 2008
    2 chevrolet
                 c1500 sub~
                                               8 auto~ r
                                                                 14
                                                                       20 r
                                                                                suv
##
                                5.7 1999
                                                                 13
    3 chevrolet
                  c1500 sub~
                                               8 auto~ r
                                                                       17 r
                                                                                suv
   4 chevrolet
                   c1500 sub~
                                6
                                      2008
                                               8 auto~ r
                                                                 12
                                                                       17 r
                                                                                suv
##
    5 chevrolet
                   corvette
                                5.7 1999
                                               8 manu~ r
                                                                 16
                                                                       26 p
                                                                                2sea~
  6 chevrolet
                   corvette
                                5.7
                                     1999
                                               8 auto~ r
                                                                 15
                                                                       23 p
                                                                                2sea~
```

```
## 7 chevrolet
                   corvette
                                6.2 2008
                                               8 manu~ r
                                                                16
                                                                      26 p
                                                                                2sea~
                                                                      25 p
## 8 chevrolet
                                6.2 2008
                   corvette
                                               8 auto~ r
                                                                15
                                                                                2sea~
                   corvette
                                      2008
                                                                      24 p
  9 chevrolet
                                7
                                               8 manu~ r
                                                                15
                                                                                2sea~
                                5.3 2008
## 10 chevrolet
                   k1500 tah~
                                               8 auto~ 4
                                                                14
                                                                      19 r
                                                                                SIIV
## 11 chevrolet
                   k1500 tah~
                                5.3 2008
                                               8 auto~ 4
                                                                      14 e
                                                                                suv
## # i 3 more variables: `avg miles per gallon` <dbl>, car <chr>,
       `cyl / trans` <chr>
slice(df, (nrow(df)-9):nrow(df))
## # A tibble: 10 x 14
      manufacturer model
                                             cyl trans drv
                              displ year
                                                               cty
                                                                     hwy fl
                                                                                class
##
      <chr>
                   <chr>
                              <dbl> <int> <int> <chr> <int> <int> <chr> <int> <int> <chr>
   1 volkswagen new beetle
                                2
                                      1999
                                               4 auto~ f
                                                                19
                                                                      26 r
                                                                                subc~
   2 volkswagen new beetle
                                     2008
                                               5 manu~ f
##
                                2.5
                                                                20
                                                                      28 r
                                                                                subc~
                                     2008
##
   3 volkswagen
                   new beetle
                                2.5
                                               5 auto~ f
                                                                20
                                                                      29 r
                                                                                subc~
                                                                      29 p
## 4 volkswagen
                                1.8 1999
                   passat
                                               4 manu~ f
                                                                21
                                                                                mids~
## 5 volkswagen
                   passat
                                1.8 1999
                                               4 auto~ f
                                                                18
                                                                      29 p
                                                                                mids~
## 6 volkswagen
                   passat
                                2
                                      2008
                                               4 auto~ f
                                                                19
                                                                      28 p
                                                                                mids~
## 7 volkswagen
                   passat
                                2
                                      2008
                                                                      29 p
                                               4 manu~ f
                                                                21
                                                                                mids~
                                2.8 1999
## 8 volkswagen
                   passat
                                               6 auto~ f
                                                                16
                                                                      26 p
                                                                                mids~
## 9 volkswagen
                                2.8 1999
                                               6 manu~ f
                                                                      26 p
                                                                                mids~
                   passat
                                                                18
## 10 volkswagen
                   passat
                                3.6 2008
                                               6 auto~ f
                                                                17
                                                                      26 p
                                                                                mids~
## # i 3 more variables: `avg miles per gallon` <dbl>, car <chr>,
     `cyl / trans` <chr>
arrange
# Sort rows by year (ascending order)
arrange(df, year)
## # A tibble: 234 x 14
##
      manufacturer model
                              displ year
                                             cyl trans drv
                                                               cty
                                                                     hwy fl
                                                                                class
##
      <chr>
                   <chr>
                              <dbl> <int> <int> <chr> <int> <int> <chr> <int> <int> <chr>
                                1.8 1999
## 1 audi
                   a4
                                               4 auto~ f
                                                                18
                                                                      29 p
                                                                                comp~
                                                                      29 p
##
   2 audi
                   a4
                                1.8 1999
                                               4 manu~ f
                                                                21
                                                                                comp~
   3 audi
##
                  a4
                                2.8 1999
                                               6 auto~ f
                                                                      26 p
                                                                                comp~
   4 audi
##
                  a4
                                2.8 1999
                                               6 manu~ f
                                                                18
                                                                      26 p
                                                                                comp~
##
   5 audi
                   a4 quattro
                                1.8 1999
                                               4 manu~ 4
                                                                18
                                                                      26 p
                                                                                comp~
##
  6 audi
                                1.8 1999
                                                                      25 p
                   a4 quattro
                                               4 auto~ 4
                                                                16
                                                                                comp~
                                                                      25 p
##
  7 audi
                   a4 quattro
                                2.8 1999
                                               6 auto~ 4
                                                                15
                                                                                comp~
## 8 audi
                   a4 quattro
                                2.8 1999
                                               6 manu~ 4
                                                                17
                                                                      25 p
                                                                                comp~
## 9 audi
                   a6 quattro
                                2.8
                                     1999
                                               6 auto~ 4
                                                                15
                                                                      24 p
                                                                                mids~
                   c1500 sub~
                                     1999
## 10 chevrolet
                                5.7
                                               8 auto~ r
                                                                13
                                                                      17 r
                                                                                suv
## # i 224 more rows
## # i 3 more variables: `avg miles per gallon` <dbl>, car <chr>,
       `cyl / trans` <chr>
# Sort rows by year (descending order)
arrange(df, desc(year))
## # A tibble: 234 x 14
##
      manufacturer model
                              displ year
                                             cyl trans drv
                                                               cty
                                                                     hwy fl
                                                                                class
##
      <chr>
                   <chr>
                              <dbl> <int> <int> <chr> <int> <int> <int> <chr> <int> <int> <int> <chr>
## 1 audi
                                      2008
                   a4
                                2
                                               4 manu~ f
                                                                20
                                                                      31 p
                                                                                comp~
                                               4 auto~ f
## 2 audi
                                      2008
                   a4
                                2
                                                                21
                                                                      30 p
                                                                                comp~
```

```
3.1 2008
## 3 audi
                   a4
                                              6 auto~ f
                                                                18
                                                                      27 p
                                                                               comp~
                                                                      28 p
## 4 audi
                                     2008
                                              4 manu~ 4
                                                                20
                   a4 quattro
                                                                               comp~
                                     2008
                                                                      27 p
                                                                               comp~
## 5 audi
                  a4 quattro
                                2
                                              4 auto~ 4
                                                                19
## 6 audi
                               3.1 2008
                   a4 quattro
                                              6 auto~ 4
                                                                17
                                                                      25 p
                                                                               comp~
## 7 audi
                   a4 quattro
                                3.1 2008
                                              6 manu~ 4
                                                                15
                                                                      25 p
                                                                               comp~
## 8 audi
                                3.1 2008
                                              6 auto~ 4
                                                                17
                                                                      25 p
                   a6 quattro
                                                                               mids~
## 9 audi
                   a6 quattro
                                4.2 2008
                                              8 auto~ 4
                                                                16
                                                                               mids~
                                                                      23 p
                                              8 auto~ r
## 10 chevrolet
                   c1500 sub~
                                5.3 2008
                                                                14
                                                                      20 r
                                                                               suv
## # i 224 more rows
## # i 3 more variables: `avg miles per gallon` <dbl>, car <chr>,
       `cyl / trans` <chr>
# Sort rows by year (ascending order), cyl and displ
df.sort <- arrange(df, year, cyl, displ)</pre>
df.sort
## # A tibble: 234 x 14
##
     manufacturer model
                                            cyl trans drv
                              displ year
                                                               cty
                                                                     hwy fl
                                                                               class
      <chr>
                  <chr>
                              <dbl> <int> <int> <chr> <int> <int> <chr> <int> <int> <chr>
                                1.6 1999
## 1 honda
                   civic
                                              4 manu~ f
                                                                28
                                                                      33 r
                                                                               subc~
## 2 honda
                   civic
                                1.6 1999
                                              4 auto~ f
                                                                24
                                                                      32 r
                                                                               subc~
## 3 honda
                  civic
                                1.6 1999
                                              4 manu~ f
                                                                25
                                                                      32 r
                                                                               subc~
## 4 honda
                                1.6 1999
                                              4 manu~ f
                                                                23
                  civic
                                                                      29 p
                                                                               subc~
## 5 honda
                                1.6 1999
                  civic
                                              4 auto~ f
                                                                24
                                                                      32 r
                                                                               subc~
                  a4
                                                                      29 p
## 6 audi
                                1.8 1999
                                              4 auto~ f
                                                                18
                                                                               comp~
## 7 audi
                   a4
                                1.8 1999
                                              4 manu~ f
                                                                21
                                                                      29 p
                                                                               comp~
## 8 audi
                   a4 quattro
                                1.8 1999
                                              4 manu~ 4
                                                                18
                                                                      26 p
                                                                               comp~
## 9 audi
                   a4 quattro
                                1.8 1999
                                              4 auto~ 4
                                                                16
                                                                      25 p
                                                                               comp~
## 10 toyota
                   corolla
                                1.8 1999
                                              4 auto~ f
                                                                24
                                                                      30 r
                                                                               comp~
## # i 224 more rows
## # i 3 more variables: `avg miles per gallon` <dbl>, car <chr>,
     `cyl / trans` <chr>
distinct
df.example <- data.frame(id = 1:3, name = c("John", "Max", "Julia"))</pre>
df.example <- bind_rows(df.example, slice(df.example, 2)) # create duplicate of 2nd row
df.example <- arrange(df.example, id)</pre>
df.example
##
     id name
## 1 1 John
## 2 2
         Max
## 3 2
         Max
## 4 3 Julia
# show table without duplicates
distinct(df.example)
##
     id name
## 1 1 John
## 2 2
        Max
## 3 3 Julia
# Back to mpg example - lets create a table with duplicates
df.dupl <- select(df, manufacturer, model)</pre>
```

```
df.dupl
## # A tibble: 234 x 2
     manufacturer model
##
      <chr>
                   <chr>
##
  1 audi
                   а4
##
   2 audi
                   a4
## 3 audi
                   a4
## 4 audi
                   a4
## 5 audi
                   a4
## 6 audi
                   a4
## 7 audi
                   a4
## 8 audi
                   a4 quattro
## 9 audi
                   a4 quattro
## 10 audi
                   a4 quattro
## # i 224 more rows
   Keep only unique rows without duplicates
df.nodupl <- distinct(df.dupl)</pre>
df.nodupl
## # A tibble: 38 x 2
##
     manufacturer model
##
      <chr>
                  <chr>
## 1 audi
                   a4
##
   2 audi
                   a4 quattro
## 3 audi
                   a6 quattro
## 4 chevrolet
                   c1500 suburban 2wd
## 5 chevrolet
                   corvette
## 6 chevrolet
                  k1500 tahoe 4wd
## 7 chevrolet
                   malibu
## 8 dodge
                   caravan 2wd
## 9 dodge
                   dakota pickup 4wd
## 10 dodge
                   durango 4wd
## # i 28 more rows
Sample rows
# sample_n() - Filter n randomly selected rows
set.seed(42)
# 10 randomly selected rows without replacement
sample_n(df, size = 10, replace = F)
## # A tibble: 10 x 14
##
     manufacturer model
                                            cyl trans drv
                                                                    hwy fl
                                                                               class
                              displ year
                                                               cty
##
      <chr>
                   <chr>
                              <dbl> <int> <int> <chr> <int> <int> <chr> <int> <int> <chr>
                                                                      19 r
## 1 dodge
                                3.7 2008
                                              6 manu~ 4
                   dakota pi~
                                                                15
                                                                               pick~
                                                                     29 p
## 2 volkswagen passat
                                1.8 1999
                                              4 auto~ f
                                                                18
                                                                               mids~
## 3 dodge
                   ram 1500 ~
                                4.7 2008
                                              8 manu~ 4
                                                               12
                                                                      16 r
                                                                               pick~
## 4 nissan
                   pathfinde~
                                4
                                     2008
                                              6 auto~ 4
                                                               14
                                                                      20 p
                                                                               suv
## 5 dodge
                   ram 1500 ~
                                5.9 1999
                                              8 auto~ 4
                                                                11
                                                                      15 r
                                                                               pick~
## 6 volkswagen
                                1.8 1999
                                              4 manu~ f
                                                                21
                                                                      29 p
                   passat
                                                                               mids~
                                                                      27 p
## 7 nissan
                   altima
                                3.5 2008
                                              6 manu~ f
                                                                19
                                                                               mids~
## 8 hyundai
                                2.7 2008
                                              6 manu~ f
                                                                17
                                                                      24 r
                                                                               subc~
                   tiburon
```

```
## 9 volkswagen
                   passat
                                3.6 2008
                                              6 auto~ f
                                                               17
                                                                     26 p
                                                                              mids~
## 10 jeep
                                4.7 2008
                                              8 auto~ 4
                                                                     19 r
                   grand che~
                                                               14
                                                                              suv
## # i 3 more variables: `avg miles per gallon` <dbl>, car <chr>,
     `cyl / trans` <chr>
# 10 randomly selected rows with replacement
sample_n(df, size = 10, replace = T)
## # A tibble: 10 x 14
##
     manufacturer model
                              displ year
                                            cyl trans drv
                                                              cty
                                                                    hwy fl
                                                                               class
##
      <chr>
                              <dbl> <int> <int> <chr> <int> <int> <chr> <int> <int> <chr>
                   <chr>
## 1 dodge
                                3.8 2008
                                              6 auto~ f
                                                               16
                                                                     23 r
                                                                              mini~
                   caravan 2~
## 2 chevrolet
                  corvette
                                5.7 1999
                                              8 manu~ r
                                                               16
                                                                     26 p
                                                                              2sea~
## 3 dodge
                  ram 1500 ~
                                5.2 1999
                                              8 auto~ 4
                                                               11
                                                                     15 r
                                                                              pick~
## 4 honda
                                1.6 1999
                                              4 \text{ manu~} f
                                                               28
                                                                     33 r
                   civic
                                                                              subc~
## 5 ford
                                5.4 1999
                  f150 pick~
                                              8 auto~ 4
                                                               11
                                                                     15 r
                                                                              pick~
## 6 subaru
                                2.5 2008
                                                                     23 p
                  forester ~
                                              4 auto~ 4
                                                               18
                                                                              suv
                                2.4 1999
## 7 hyundai
                  sonata
                                              4 manu~ f
                                                               18
                                                                     27 r
                                                                              mids~
## 8 chevrolet
                   c1500 sub~
                                5.3 2008
                                              8 auto~ r
                                                               11
                                                                     15 e
                                                                              SIIV
## 9 nissan
                   pathfinde~
                                5.6 2008
                                              8 auto~ 4
                                                               12
                                                                     18 p
                                                                              suv
## 10 hyundai
                   sonata
                                2.5 1999
                                              6 manu~ f
                                                                     26 r
                                                               18
                                                                              mids~
## # i 3 more variables: `avg miles per gallon` <dbl>, car <chr>,
      `cyl / trans` <chr>
# sample frac() - Filter a fraction of randomly selected rows
# 10% of table rows randomly selected
sample frac(df, size = 0.1, replace = F)
## # A tibble: 23 x 14
##
     manufacturer model
                              displ year
                                            cyl trans drv
                                                                    hwy fl
                                                                              class
                                                              cty
##
      <chr>
                   <chr>
                              <dbl> <int> <int> <chr> <int> <int> <chr> <int> <int> <chr>
## 1 hyundai
                   sonata
                                2.4 2008
                                              4 auto~ f
                                                               21
                                                                     30 r
                                                                              mids~
## 2 land rover range rov~
                                     1999
                                              8 auto~ 4
                                4
                                                               11
                                                                     15 p
                                                                              suv
## 3 dodge
                  caravan 2~
                                3.3 1999
                                              6 auto~ f
                                                               16
                                                                     22 r
                                                                              mini~
## 4 ford
                   f150 pick~
                                5.4 1999
                                              8 auto~ 4
                                                               11
                                                                     15 r
                                                                              pick~
## 5 chevrolet
                                6.2 2008
                   corvette
                                              8 auto~ r
                                                               15
                                                                     25 p
                                                                              2sea~
## 6 subaru
                   forester ~
                                2.5 2008
                                              4 auto~ 4
                                                               20
                                                                     26 r
                                                                              suv
## 7 volkswagen
                  new beetle
                               1.9 1999
                                              4 auto~ f
                                                               29
                                                                     41 d
                                                                              subc~
## 8 hyundai
                                2.4 1999
                                              4 auto~ f
                                                               18
                                                                     26 r
                                                                              mids~
                   sonata
                                2.8 1999
                                                                     26 p
## 9 audi
                   a4
                                              6 auto~ f
                                                               16
                                                                              comp~
## 10 volkswagen
                                2.8 1999
                                              6 manu~ f
                                                               17
                                                                     24 r
                                                                              comp~
                   gti
## # i 13 more rows
## # i 3 more variables: `avg miles per gallon` <dbl>, car <chr>,
      `cyl / trans` <chr>
summarise
# Calculate average hwy
summarise(df, `mean hwy` = mean(hwy))
## # A tibble: 1 x 1
    `mean hwy`
##
          <dbl>
```

## 1

23.4

```
# Count table rows, and count distinct car models
summarise(df, rows = n(), `nr models` = n_distinct(model))
## # A tibble: 1 x 2
##
     rows `nr models`
    <int>
          <int>
## 1 234
                  38
# Calculate min / max hwy & cty
summarise(df,
         `min hwy` = min(hwy),
         `min cty` = min(cty),
         `max hwy` = max(hwy),
         `max cty` = max(cty))
## # A tibble: 1 x 4
    `min hwy` `min cty` `max hwy` `max cty`
              <int>
        <int>
                        <int>
                                    <int>
## 1
          12
                   9
                             44
                                       35
group_by()
# Group cars by manufacturer
group_by(df, manufacturer)
## # A tibble: 234 x 14
## # Groups: manufacturer [15]
     manufacturer model displ year
                                       cyl trans drv
                                                        cty
                                                                         class
##
     <chr>
              <chr>
                           <dbl> <int> <int> <chr> <int> <int> <chr> <int> <int> <chr>
## 1 audi
                a4
                             1.8 1999
                                        4 auto~ f
                                                          18
                                                                 29 p
                                                                         comp~
## 2 audi
                a4
                             1.8 1999
                                         4 manu~ f
                                                           21
                                                                 29 p
                                                                         comp~
                                                                31 p
## 3 audi
                a4
                              2
                                  2008
                                         4 manu~ f
                                                           20
                                                                         comp~
## 4 audi
                a4
                              2
                                  2008
                                         4 auto~ f
                                                           21
                                                                30 p
                                                                         comp~
## 5 audi
                a4
                             2.8 1999
                                         6 auto~ f
                                                           16
                                                                26 p
                                                                         comp~
## 6 audi
                a4
                            2.8 1999
                                        6 manu~ f
                                                           18
                                                                26 p
                                                                         comp~
## 7 audi
                             3.1 2008
                                           6 auto~ f
                a4
                                                           18
                                                                27 p
                                                                         comp~
                a4 quattro 1.8 1999
## 8 audi
                                           4 manu~ 4
                                                           18
                                                                 26 p
                                                                         comp~
## 9 audi
                a4 quattro 1.8 1999
                                        4 auto~ 4
                                                           16
                                                                 25 p
                                                                         comp~
## 10 audi
                 a4 quattro
                                  2008
                                           4 manu~ 4
                                                           20
                              2
                                                                 28 p
                                                                         comp~
## # i 224 more rows
## # i 3 more variables: `avg miles per gallon` <dbl>, car <chr>,
     `cyl / trans` <chr>
# Combine summarise() & group_by() - summary statistics for grouped data
# Count number of cars for each manufacturer
summarise(group_by(df, manufacturer), cars = n())
## # A tibble: 15 x 2
##
     manufacturer cars
     <chr>
## 1 audi
                    18
## 2 chevrolet
                    19
## 3 dodge
                    37
## 4 ford
                   25
## 5 honda
```

```
## 6 hyundai
## 7 jeep
## 8 land rover
## 9 lincoln
                      3
## 10 mercury
                      4
## 11 nissan
                     13
## 12 pontiac
                     5
## 13 subaru
                     14
## 14 toyota
## 15 volkswagen
                     27
# Calculate mean / min / max hwy for each model
summarise(group_by(df, model),
          `mean hwy` = mean(hwy),
          `min hwy` = min(hwy),
         \max hwy = \max(hwy)
## # A tibble: 38 x 4
##
     model
                        `mean hwy` `min hwy` `max hwy`
      <chr>
##
                             <dbl>
                                      <int>
                                                 <int>
## 1 4runner 4wd
                              18.8
                                          17
                                                    20
## 2 a4
                              28.3
                                          26
                                                    31
## 3 a4 quattro
                              25.8
                                          25
                                                    28
## 4 a6 quattro
                              24
                                          23
                                                    25
## 5 altima
                              28.7
                                          26
                                                    32
## 6 c1500 suburban 2wd
                             17.8
                                                    20
                                          15
                             28.3
## 7 camry
                                          26
                                                    31
## 8 camry solara
                            28.1
                                          26
                                                    31
## 9 caravan 2wd
                            22.4
                                          17
                                                    24
## 10 civic
                              32.6
                                          29
                                                    36
## # i 28 more rows
count()
# Count number of table rows
count(df)
## # A tibble: 1 x 1
##
        n
##
     <int>
## 1 234
# Count number of cars per model
count(group_by(df, model))
## # A tibble: 38 x 2
## # Groups: model [38]
##
     model
     <chr>
                        <int>
## 1 4runner 4wd
                            6
## 2 a4
                            7
## 3 a4 quattro
                            8
## 4 a6 quattro
                            3
## 5 altima
                            6
## 6 c1500 suburban 2wd
                            5
                            7
## 7 camry
```

```
## 8 camry solara
## 9 caravan 2wd
                           11
## 10 civic
                            9
## # i 28 more rows
pipe operator %>%
df %>%
 filter(manufacturer == "audi") %>%
 count()
## # A tibble: 1 x 1
        n
##
    <int>
## 1
       18
df %>%
 filter(manufacturer %in% c("dodge", "chevrolet")) %>%
 select(manufacturer, model, year, class)
## # A tibble: 56 x 4
##
     manufacturer model
                                      year class
##
      <chr>
                  <chr>
                                     <int> <chr>
##
  1 chevrolet c1500 suburban 2wd 2008 suv
## 2 chevrolet c1500 suburban 2wd 2008 suv
## 3 chevrolet c1500 suburban 2wd 2008 suv
## 4 chevrolet c1500 suburban 2wd 1999 suv
## 5 chevrolet c1500 suburban 2wd 2008 suv
## 6 chevrolet corvette
                                      1999 2seater
## 7 chevrolet corvette
                                      1999 2seater
## 8 chevrolet corvette
                                      2008 2seater
## 9 chevrolet
                  corvette
                                      2008 2seater
## 10 chevrolet
                                      2008 2seater
                  corvette
## # i 46 more rows
df %>%
 group_by(manufacturer, model, class, trans) %>%
 summarise(`mean hwy` = mean(hwy), cars = n()) %>%
 ungroup() %>%
 filter(`mean hwy` > 30) %>%
 arrange(desc(`mean hwy`))
## # A tibble: 10 x 6
##
     manufacturer model
                             class
                                        trans
                                                   `mean hwy` cars
##
      <chr>
                  <chr>
                             <chr>
                                        <chr>
                                                        <dbl> <int>
##
  1 honda
                 civic
                             subcompact auto(15)
                                                         36
## 2 toyota
                                                         36
                                                                  2
                  corolla
                             compact
                                        manual(m5)
## 3 toyota
                             compact
                                        auto(14)
                                                         34
                                                                  2
                  corolla
                                                         33.7
                                                                  3
## 4 volkswagen new beetle subcompact manual(m5)
## 5 volkswagen
                  new beetle subcompact auto(14)
                                                                  2
                                                         33.5
## 6 honda
                                                         32
                                                                  2
                  civic
                             subcompact auto(14)
   7 honda
                  civic
                             subcompact manual(m5)
                                                         32
                                                                  4
                                                                  4
   8 volkswagen
                                                         31.5
                  jetta
                             compact
                                        manual(m5)
## 9 audi
                  a4
                             compact
                                        manual(m6)
                                                         31
                                                                  1
                                                         31
                                                                  1
```

auto(15)

## 10 toyota

camry

midsize

#### pivoting()

```
table.long <- data.frame(id = 1:6,
                       type = c("a", "b", "a", "c", "c", "a"),
                       count = c(20, 50, 45, 15, 12, 5)
table.long
    id type count
## 1 1
         a
## 2 2
          b
               50
## 3 3
              45
        a
## 4 4
        c 15
## 5 5
         c 12
## 6 6
               5
table.wide <- pivot_wider(table.long,</pre>
                        names_from = type,
                        values_from = count)
table.wide
## # A tibble: 6 x 4
##
       id
            a
                   b
   <int> <dbl> <dbl> <dbl>
##
## 1
      1 20 NA
## 2
        2 NA 50
                        NA
## 3
        3 45
                NA
                        NA
## 4
       4 NA NA
                        15
## 5
       5 NA NA
                        12
## 6
        6
             5
                 NA
                        NA
table.long1 <- pivot_longer(table.wide,</pre>
                          cols = c("a", "b", "c"),
                          names_to = "type",
                          values_to = "count",
                          values_drop_na = T)
table.long1
## # A tibble: 6 x 3
##
       id type count
##
   <int> <chr> <dbl>
## 1
                  20
      1 a
## 2
       2 b
                  50
## 3
       3 a
                  45
## 4
       4 c
                  15
## 5
       5 с
                  12
## 6
       6 a
                   5
df.long <- df %>%
 filter(manufacturer %in% c("jeep", "land rover", "hyundai")) %>%
 select(model, trans, hwy) %>%
 group_by(model, trans) %>%
 summarise(`mean hwy` = mean(hwy)) %>%
 ungroup()
df.long
## # A tibble: 10 x 3
```

```
##
      model
                         trans
                                     `mean hwy`
##
      <chr>>
                         <chr>
                                          <dbl>
##
  1 grand cherokee 4wd auto(14)
                                           18.5
  2 grand cherokee 4wd auto(15)
                                           17.3
   3 range rover
                         auto(14)
                                           15
## 4 range rover
                         auto(s6)
                                           18
## 5 sonata
                         auto(14)
                                           27.3
## 6 sonata
                                           28
                         auto(15)
##
   7 sonata
                         manual(m5)
                                           28
## 8 tiburon
                                           25.7
                         auto(14)
## 9 tiburon
                         manual(m5)
                                           27
                                           24
## 10 tiburon
                         manual(m6)
df.wide <- df.long %>%
  pivot_wider(names_from = trans,
              values_from = `mean hwy`)
df.wide
## # A tibble: 4 x 6
##
    model
                         `auto(14)` `auto(15)` `auto(s6)` `manual(m5)` `manual(m6)`
##
     <chr>
                              <dbl>
                                         <dbl>
                                                    <dbl>
                                                                  <dbl>
                                                                               <dbl>
## 1 grand cherokee 4wd
                              18.5
                                          17.3
                                                       NA
                                                                     NA
                                                                                  NA
## 2 range rover
                              15
                                          NA
                                                       18
                                                                     NA
                                                                                  NA
## 3 sonata
                              27.3
                                          28
                                                                     28
                                                       NA
                                                                                  NA
## 4 tiburon
                              25.7
                                          NΑ
                                                       NΑ
                                                                     27
                                                                                  24
df.long1 <- df.wide %>%
 pivot_longer(-model, # exclude column "model" and use all remaining columns!!!
               names_to = "trans",
               values_to = "mean hwy",
               values_drop_na = T)
df.long1
## # A tibble: 10 x 3
##
      model
                                     `mean hwy`
                         trans
##
      <chr>
                         <chr>
                                          <dbl>
  1 grand cherokee 4wd auto(14)
                                           18.5
##
                                           17.3
##
   2 grand cherokee 4wd auto(15)
## 3 range rover
                         auto(14)
                                           15
## 4 range rover
                         auto(s6)
                                           18
## 5 sonata
                                           27.3
                         auto(14)
## 6 sonata
                         auto(15)
                                           28
## 7 sonata
                         manual(m5)
                                           28
## 8 tiburon
                         auto(14)
                                           25.7
## 9 tiburon
                         manual(m5)
                                           27
## 10 tiburon
                         manual(m6)
                                           24
separating and uniting
dates <- seq.Date(from = as.Date("2021-01-01"), to = as.Date("2021-12-31"), by = "day") # generate date
table <- data.frame(date = dates)</pre>
table %>% head(); table %>% tail()
```

##

date

## 1 2021-01-01 ## 2 2021-01-02

```
## 3 2021-01-03
## 4 2021-01-04
## 5 2021-01-05
## 6 2021-01-06
##
             date
## 360 2021-12-26
## 361 2021-12-27
## 362 2021-12-28
## 363 2021-12-29
## 364 2021-12-30
## 365 2021-12-31
separate()
table.sep <- table %>%
  separate(data = .,
           col = date,
           into = c("year", "month", "dayofmonth"),
           sep = "-") %>%
  mutate(month = as.numeric(month),
         dayofmonth = as.numeric(dayofmonth)) %>%
  arrange(year, month, dayofmonth)
table.sep
##
       year month dayofmonth
## 1
       2021
                1
## 2
       2021
                           2
                1
## 3
       2021
                1
                           3
## 4
      2021
                           4
                1
## 5
       2021
                1
                           5
## 6
       2021
                           6
                1
## 7
       2021
                1
                           7
## 8
       2021
                           8
                1
## 9
       2021
                           9
                1
## 10 2021
                          10
## 11 2021
                1
                          11
## 12 2021
                1
                          12
## 13 2021
                          13
                1
## 14
       2021
                1
                          14
## 15 2021
                1
                          15
## 16 2021
                          16
## 17 2021
                          17
                1
## 18 2021
                1
                          18
```

## 19 2021

## 20 2021

## 21 2021

## 22 2021

## 23 2021

## 24 2021

## 26 2021

## 27 2021

## 28 2021

2021

## 25

1

1

1

1

1

1

1

1

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22

23

24

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26

27

28

##	29	2021	1 2	
##	30	2021	1 3	
##	31	2021	1 3	
##	32	2021		1
##	33	2021		2
##	34	2021		3
##	35	2021		4
##	36	2021		5
##	37	2021		6
##	38	2021		7
##	39	2021	2	8
##	40	2021	2	9
##	41	2021	2 1	0
##	42	2021	2 1	1
##	43	2021	2 1	2
##	44	2021	2 1	3
##	45	2021	2 1	4
##	46	2021	2 1	5
##	47	2021	2 1	6
##	48	2021	2 1	7
##	49	2021	2 1	8
##	50	2021	2 1	9
##	51	2021	2 2	
##	52	2021	2 2	
##	53	2021	2 2	
##	54	2021	2 2	
##	55	2021	2 2	
##	56	2021	2 2	
##	57	2021	2 2	
##	58	2021	2 2	
##	59	2021	2 2	
##	60	2021		1
##	61	2021		2
##	62	2021		3
##	63	2021		4
##	64	2021		5
##	65	2021		6
##	66	2021	_	7
##	67	2021		8
##	68	2021		9
##	69	2021	3 1	
##	70	2021	3 1	
##	71	2021	3 1	
##	72	2021	3 1	
##	73	2021	3 1	
##				
##	74 75	2021	3 1	
		2021		
##	76 77	2021	3 1	
##	77	2021	3 1	
##	78	2021	3 1	
##	79	2021	3 2	
##	80	2021	3 2	
##	81	2021	3 2	
##	82	2021	3 2	3

##	83	2021	3	24
##	84	2021	3	25
##	85	2021	3	26
##	86	2021	3	27
##	87	2021	3	28
##	88	2021	3	29
##	89	2021	3	30
##	90	2021	3	31
##	91	2021	4	1
##	92	2021	4	2
##	93	2021	4	3
##	94	2021	4	4
##	95	2021	4	5
##	96	2021	4	6
##	97	2021	4	7
##	98	2021	4	8
##	99	2021	4	9
##	100	2021	4	10
##	101	2021	4	11
##	101	2021	4	12
##	103	2021	4	13
##	103	2021	4	14
##	104		4	15
##		2021		
	106	2021	4	16
##	107 108	2021	4	17
##		2021	4	18
##	109	2021	4	19
##	110	2021	4	20
##	111	2021	4	21
##	112	2021	4	22
##	113	2021	4	23
##	114	2021	4	24
##	115	2021	4	25
##	116	2021	4	26
##	117	2021	4	27
##	118	2021	4	28
##	119	2021	4	29
##	120	2021	4	30
##	121	2021	5	1
##	122	2021	5	2
##	123	2021	5	3
##	124	2021	5	4
##	125	2021	5	5
##	126	2021	5	6
##	127	2021	5	7
##	128	2021	5	8
##	129	2021	5	9
##	130	2021	5	10
##	131	2021	5	11
##	132	2021	5	12
##	133	2021	5	13
##	134	2021	5	14
##	135	2021	5	15
##	136	2021	5	16

##	137	2021	5	17
##	138	2021	5	18
##	139	2021	5	19
##	140	2021	5	20
##	141	2021	5	21
##	142	2021	5	22
##	143	2021	5	23
##	144	2021	5	24
##	145	2021	5	25
##	146	2021	5	26
##	147	2021	5	27
##	148	2021	5	28
##	149	2021	5	29
##	150	2021	5	30
##	151	2021	5	31
##	152	2021	6	1
##	153	2021	6	2
##	154	2021	6	3
##	155	2021	6	4
##	156	2021	6	5
##	157	2021	6	6
##	158	2021	6	7
##	159	2021	6	8
##	160	2021	6	9
##	161	2021	6	10
##	162	2021	6	11
##	163	2021	6	12
##	164	2021	6	13
##	165	2021	6	14
##	166	2021	6	15
##	167	2021	6	16
##	168	2021	6	17
##	169	2021	6	18
##	170	2021	6	19
##	171	2021	6	20
##	172	2021	6	21
##	173	2021	6	22
##	174	2021	6	23
##	175	2021	6	24
##	176	2021	6	25
##	177	2021	6	26
##	178	2021	6	27
##	179	2021	6	28
##	180	2021	6	29
##	181	2021	6	30
##	182	2021	7	1
##	183	2021	7	2
##	184	2021	7	3
##	185	2021	7	4
##	186	2021	7	5
##	187	2021	7	6
##	188	2021	7	7
##	189	2021	7	8
##	190	2021	7	9

191	2021	7	10
			11
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			20
			21
			22
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			24 25
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			27
			28
			29
			30
			31
			1
			2
			3
			4
			5
			6
			7
		8	8
		8	9
		8	10
		8	11
	2021	8	12
225	2021	8	13
226	2021	8	14
227	2021	8	15
228	2021	8	16
229	2021	8	17
230	2021	8	18
231	2021	8	19
232	2021	8	20
233	2021	8	21
234	2021	8	22
235	2021	8	23
236	2021	8	24
237	2021	8	25
238	2021	8	26
239	2021	8	27
240	2021	8	28
241	2021	8	29
242	2021	8	30
243	2021	8	31
244	2021	9	1
	192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 220 221 222 223 224 225 226 227 228 229 230 231 242 253 264 277 288 299 210 211 212 220 230 240 250 270 270 270 270 270 270 270 270 270 27	192         2021           193         2021           194         2021           195         2021           197         2021           199         2021           200         2021           201         202           202         2021           203         2021           204         2021           205         2021           206         2021           207         2021           208         2021           209         2021           210         2021           211         2021           212         2021           213         2021           214         2021           215         2021           216         2021           217         2021           218         2021           220         2021           221         2021           222         2021           223         2021           224         2021           225         2021           226         2021           230         2021	192       2021       7         193       2021       7         194       2021       7         195       2021       7         197       2021       7         198       2021       7         199       2021       7         200       2021       7         201       2021       7         202       2021       7         203       2021       7         204       2021       7         205       2021       7         206       2021       7         207       2021       7         208       2021       7         209       2021       7         210       2021       7         211       2021       7         212       2021       7         213       2021       8         214       2021       8         215       2021       8         216       2021       8         217       2021       8         218       2021       8         229       2021       8

##	245	2021	9	2
##	246	2021	9	3
##	247	2021	9	4
##	248	2021	9	5
##	249	2021	9	6
##	250	2021	9	7
##	251	2021	9	8
##	252	2021	9	9
##	253	2021	9	10
##	254	2021	9	11
##	255	2021	9	12
##	256	2021	9	13
##	257	2021	9	14
##	258	2021	9	15
##	259	2021	9	16
##	260	2021	9	17
##	261	2021	9	18
##	262	2021	9	19
##	263	2021	9	20
##	264	2021	9	21
##	265	2021	9	22
##	266	2021	9	23
##	267	2021	9	24
##	268	2021	9	25
##	269	2021	9	26
##	270	2021	9	27
##	271	2021	9	28
##	272	2021	9	29
##	273	2021	9	30
##	274	2021	10	1
##	275	2021	10	2
##	276	2021	10	3
##	277	2021	10	4
##	278	2021	10	5
##	279	2021	10	6
##	280	2021	10	7
##	281	2021	10	8
##	282	2021	10	9
##	283	2021	10	10
##	284	2021	10	11
##	285	2021	10	12
##	286	2021	10	13
## ##	287	2021	10	14
##	288 289	<ul><li>2021</li><li>2021</li></ul>	10 10	15 16
##	290	2021	10	16 17
##	291	2021	10	18
##	292	2021	10	19
##	293	2021	10	20
##	294	2021	10	21
##	295	2021	10	22
##	296	2021	10	23
##	297	2021	10	24
##	298	2021	10	25

##	299	2021	10	26
##	300	2021	10	27
##	301	2021	10	28
##	302	2021	10	29
##	303	2021	10	30
##	304	2021	10	31
##	305	2021	11	1
##	306	2021	11	2
##	307	2021	11	3
##	308		11	4
##	309		11	5
##	310		11	6
##	311	2021	11	7
##	312	2021	11	8
##	313		11	9
##	314	2021	11	10
##	315	2021	11	11
##	316	2021	11	12
##	317		11	13
##	318	2021	11	14
##	319			15
##		2021	11	
	320		11	16
##	321	2021	11	17
##	322	2021	11	18
##	323	2021	11	19
##	324	2021	11	20
##	325	2021	11	21
##	326	2021	11	22
##	327	2021	11	23
##	328	2021	11	24
##	329	2021	11	25
##	330	2021	11	26
##	331	2021	11	27
##	332	2021	11	28
##	333	2021	11	29
##	334	2021	11	30
##	335	2021	12	1
##	336	2021	12	2
##	337	2021	12	3
##	338	2021	12	4
##	339	2021	12	5
##	340	2021	12	6
##	341	2021	12	7
##	342	2021	12	8
##	343	2021	12	9
##	344	2021	12	10
##	345	2021	12	11
##	346	2021	12	12
##	347	2021	12	13
##	348	2021	12	14
##	349	2021	12	15
##	350	2021	12	16
##	351	2021	12	17
##	352	2021	12	18

```
## 353 2021
                          19
               12
## 354 2021
               12
                          20
## 355 2021
               12
                          21
## 356 2021
               12
                          22
## 357 2021
                          23
               12
## 358 2021
               12
                          24
## 359 2021
               12
                          25
## 360 2021
               12
                          26
## 361 2021
               12
                          27
## 362 2021
               12
                          28
## 363 2021
               12
                          29
## 364 2021
               12
                          30
## 365 2021
               12
                          31
table.sep_ <- table %>%
  separate(data = .,
           col = date,
           into = c("year", "month", "dayofmonth"),
           sep = "-") %>%
                                               # which table? - . stands for table in the pipe line!
  mutate_at(.tbl = .,
            .vars = c("month", "dayofmonth"), # which variables are mutated?
            .funs = as.numeric) %>%
                                               # which functions is applied?
  arrange(year, month, dayofmonth)
table.sep_
##
       year month dayofmonth
## 1
       2021
                1
                           1
## 2
                           2
      2021
                1
## 3
       2021
                1
                           3
## 4
       2021
                1
                           4
## 5
                           5
       2021
                1
## 6
       2021
                           6
                           7
## 7
       2021
                1
## 8
       2021
                1
                           8
## 9
       2021
                           9
                1
## 10 2021
                1
                          10
## 11 2021
                1
                          11
## 12 2021
                1
                          12
## 13 2021
                          13
                1
## 14 2021
                1
                          14
## 15 2021
                1
                          15
## 16 2021
                          16
                1
## 17 2021
                1
                          17
## 18 2021
                1
                          18
## 19 2021
                          19
                1
## 20 2021
                          20
                1
## 21 2021
                          21
## 22
      2021
                          22
                1
                          23
## 23
      2021
                1
## 24
      2021
                1
                          24
## 25
      2021
                          25
## 26 2021
                          26
                1
## 27
       2021
                1
                          27
## 28 2021
                          28
                1
## 29 2021
                          29
```

##	30	2021	1	30
##	31	2021	1	31
##	32	2021	2	1
##	33	2021	2	2
##	34	2021	2	3
##	35	2021	2	4
##	36	2021	2	5
##	37	2021	2	6
##	38	2021	2	7
##	39	2021	2	8
##	40	2021	2	9
##	41	2021	2	10
##	42	2021	2	11
##	43	2021	2	12
##	44	2021	2	13
##	45	2021	2 2	14
##	46	2021	2	15 16
##	47 48	2021	2	17
## ##	49	2021 2021	2	18
##	50	2021	2	19
##	51	2021	2	20
##	52	2021	2	21
##	53	2021	2	22
##	54	2021	2	23
##	55	2021	2	24
##	56	2021	2	25
##	57	2021	2	26
##	58	2021	2	27
##	59	2021	2	28
##	60	2021	3	1
##	61	2021	3	2
##	62	2021	3	3
##	63	2021	3	4
##	64	2021	3	5
##	65	2021	3	6
##	66	2021	3	7
##	67	2021	3	8
##	68	2021	3	9
##	69	2021	3	10
##	70	2021	3	11
##	71	2021	3	12
##	72	2021	3	13
##	73	2021	3	14
##	74	2021	3	15
##	75	2021	3	16
##	76	2021	3	17
##	77	2021	3	18
##	78	2021	3	19
##	79	2021	3	20
##	80	2021	3	21
##	81	2021	3	22
##	82	2021	3	23
##	83	2021	3	24

##	84	2021	3	25
##	85	2021	3	26
##	86	2021	3	27
##	87	2021	3	28
##	88	2021	3	29
##	89	2021	3	30
##	90	2021	3	31
##	91	2021	4	1
##	92	2021	4	2
##	93	2021	4	3
##	94	2021	4	4
##	95	2021	4	5
##	96	2021	4	6
##	97	2021	4	7
##	98	2021	4	8
##	99	2021	4	9
##	100	2021	4	10
##	101	2021	4	11
##	102	2021	4	12
##	103	2021	4	13
##	104	2021	4	14
##	105	2021	4	15
##	106	2021	4	16
##	107	2021	4	17
##	108	2021	4	18
##	109	2021	4	19
##	110	2021	4	20
##	111	2021	4	21
##	112	2021	4	22
##	113	2021	4	23
##	114	2021	4	24
##	115	2021	4	25
##	116	2021	4	26
##	117	2021	4	27
##	118	2021	4	28
##	119	2021	4	29
##	120	2021	4	30
##	121	2021	5	1
##	122	2021	5	2
##	123	2021	5	3
##	124	2021	5	4
##	125	2021	5	5
##	126	2021	5	6
##	127	2021	5	7
##	128	2021	5	8
##	129	2021	5	9
##	130	2021	5	10
##	131	2021	5	11
##	132	2021	5	12
##	133	2021	5	13
##	134	2021	5	14
##	135	2021	5 5	15 16
##	136	2021	5 5	16
##	137	2021	ð	17

##	138	2021	5	18
##	139	2021	5	19
##	140	2021	5	20
##	141	2021	5	21
##	142	2021	5	22
##	143	2021	5	23
##	144	2021	5	24
##	145	2021	5	25
##	146	2021	5	26
##	147	2021	5	27
##	148	2021	5	28
##	149	2021	5	29
##	150	2021	5	30
##	151	2021	5	31
##	152	2021	6	1
##	153	2021	6	2
##	154	2021	6	3
##	155	2021	6	4
##	156	2021	6	5
##	157	2021	6	6
##	158	2021	6	7
##	159	2021	6	8
##	160	2021	6	9
##	161	2021	6	10
##	162	2021	6	11
##	163	2021	6	12
##	164	2021	6	13
##	165	2021	6	14
##	166	2021	6	15
##	167	2021	6	16
##	168	2021	6	17
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##	181	2021	6	30
##	182	2021	7	1
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##	205	2021	7	24
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##	209	2021	7	28
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##	213	2021	8	1
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##	240	2021	8	28
##	241	2021	8	29
##	242	2021	8	30
##	243	2021	8	31
##	244	2021	9	1
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##	246	2021	9	3
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unite()
table.unite <- table.sep %>%
  # add leading zeros
  mutate(month = str_pad(month, width = 2, side = "left", pad = "0"), # add leading zeros to month
         dayofmonth = str_pad(dayofmonth, width = 2, side = "left", pad = "0")) %>% # add leading zeros
  unite(data = .,
        col = "date",
        year, month, dayofmonth,
        sep = "-") %>%
  arrange(date)
table.unite
##
             date
## 1
       2021-01-01
## 2
       2021-01-02
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       2021-01-03
## 4
      2021-01-04
## 5
       2021-01-05
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       2021-01-06
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## 365 2021-12-31
table.unite_ <- table.sep %>%
  # add leading zeros
                                                    # which table? - . stands for table in the pipe line
  mutate_at(.tbl = .,
            .vars = c("month", "dayofmonth"),
                                                    # which variables are mutated?
            .funs = str_pad, 2, "left", "0") %>%
                                                    # which functions is applied? - function parameters
  unite(data = .,
        col = "date",
        year, month, dayofmonth,
        sep = "-") %>%
  arrange(date)
table.unite
##
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## 1
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- ## 293 2021-10-20 ## 294 2021-10-21
- ## 295 2021-10-22
- ## 296 2021-10-23
- ## 297 2021-10-24

## 298 2021-10-25 ## 299 2021-10-26 ## 300 2021-10-27 ## 301 2021-10-28 ## 302 2021-10-29 ## 303 2021-10-30 ## 304 2021-10-31 ## 305 2021-11-01 ## 306 2021-11-02 ## 307 2021-11-03 ## 308 2021-11-04 ## 309 2021-11-05 ## 310 2021-11-06 ## 311 2021-11-07 ## 312 2021-11-08 ## 313 2021-11-09 ## 314 2021-11-10 ## 315 2021-11-11 ## 316 2021-11-12 ## 317 2021-11-13 ## 318 2021-11-14 ## 319 2021-11-15 ## 320 2021-11-16 ## 321 2021-11-17 ## 322 2021-11-18 ## 323 2021-11-19 ## 324 2021-11-20 ## 325 2021-11-21 ## 326 2021-11-22 ## 327 2021-11-23 ## 328 2021-11-24 ## 329 2021-11-25 ## 330 2021-11-26 ## 331 2021-11-27 ## 332 2021-11-28 ## 333 2021-11-29 ## 334 2021-11-30 ## 335 2021-12-01 ## 336 2021-12-02 ## 337 2021-12-03 ## 338 2021-12-04

- ## 348 2021-12-14 ## 349 2021-12-15

## 339 2021-12-05 ## 340 2021-12-06 ## 341 2021-12-07 ## 342 2021-12-08 ## 343 2021-12-09 ## 344 2021-12-10 ## 345 2021-12-11 ## 346 2021-12-12 ## 347 2021-12-13

- ## 350 2021-12-16
- ## 351 2021-12-17

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## 353 2021-12-19
## 354 2021-12-20
## 355 2021-12-21
## 356 2021-12-22
## 357 2021-12-23
## 358 2021-12-24
## 359 2021-12-25
## 360 2021-12-26
## 361 2021-12-27
## 362 2021-12-28
## 363 2021-12-29
## 364 2021-12-30
## 365 2021-12-31
dplyr and tidyr in action
pull() - extract column as vector
df %>% pull(hwy)
     [1] 29 29 31 30 26 26 27 26 25 28 27 25 25 25 25 24 25 23 20 15 20 17 17 26 23
    [26] 26 25 24 19 14 15 17 27 30 26 29 26 24 24 22 22 24 24 17 22 21 23 23 19 18
   [51] 17 17 19 19 12 17 15 17 17 12 17 16 18 15 16 12 17 17 16 12 15 16 17 15 17
  [76] 17 18 17 19 17 19 19 17 17 17 16 16 17 15 17 26 25 26 24 21 22 23 22 20 33
## [101] 32 32 29 32 34 36 36 29 26 27 30 31 26 26 28 26 29 28 27 24 24 24 22 19 20
## [126] 17 12 19 18 14 15 18 18 15 17 16 18 17 19 19 17 29 27 31 32 27 26 26 25 25
## [151] 17 17 20 18 26 26 27 28 25 25 24 27 25 26 23 26 26 26 26 25 27 25 27 20 20
## [176] 19 17 20 17 29 27 31 31 26 26 28 27 29 31 31 26 26 27 30 33 35 37 35 15 18
## [201] 20 20 22 17 19 18 20 29 26 29 29 24 44 29 26 29 29 29 29 29 23 24 44 41 29 26
## [226] 28 29 29 29 28 29 26 26 26
df %>% pull(hwy) %>% class()
## [1] "integer"
df %>% select(hwy) %>% class()
## [1] "tbl_df"
                    "tbl"
                                  "data.frame"
group\_by() + mutate()
df <- df %>%
  group_by(manufacturer, model) %>%
  mutate(`mean hwy` = mean(hwy)) %>%
  ungroup()
df
## # A tibble: 234 x 15
##
      manufacturer model
                              displ year
                                             cyl trans drv
                                                                     hwy fl
                                                               cty
                                                                                class
      <chr>
                   <chr>
                              <dbl> <int> <int> <chr> <int> <int> <chr> <int> <int> <chr> <
##
                                1.8 1999
   1 audi
                   a4
                                               4 auto~ f
                                                                18
                                                                       29 p
                                                                                comp~
                                                                      29 p
##
   2 audi
                   a4
                                1.8 1999
                                               4 manu~ f
                                                                21
                                                                                comp~
                                2
                                      2008
                                                                20
                                                                       31 p
##
  3 audi
                   a4
                                               4 manu~ f
                                                                                comp~
```

## 352 2021-12-18

## 4 audi

## 5 audi

a4

a4

2

2008

2.8 1999

4 auto~ f

6 auto~ f

30 p

26 p

comp~

comp~

21

16

```
## 6 audi
                              2.8 1999
                 a4
                                             6 manu~ f
                                                              18
                                                                    26 p
                                                                             comp~
                 a4
## 7 audi
                               3.1 2008
                                             6 auto~ f
                                                                    27 p
                                                              18
                                                                             comp~
                                                                    26 p
## 8 audi
                 a4 quattro
                              1.8 1999
                                             4 manu~ 4
                                                             18
                                                                             comp~
                                             4 auto~ 4
## 9 audi
                  a4 quattro
                               1.8 1999
                                                              16
                                                                    25 p
                                                                             comp~
## 10 audi
                  a4 quattro
                                    2008
                                             4 manu~ 4
                                                              20
                                                                    28 p
                                                                             comp~
## # i 224 more rows
## # i 4 more variables: `avg miles per gallon` <dbl>, car <chr>,
     `cyl / trans` <chr>, `mean hwy` <dbl>
case_when() - case when statements
df <- df %>%
 mutate(trans_ = str_sub(string = trans,
                         start = 1,
                          end = 1)) %>% # extract first letter from trans
  mutate(`transmission type` = case_when(trans_ == "a" ~ "automatic",
                                        trans_ == "m" ~ "manual",
                                        TRUE ~ "NA")) %>%
  select(-trans_)
df %>% count(`transmission type`, trans) # check car count
## # A tibble: 10 x 3
##
      `transmission type` trans
##
      <chr>
                          <chr>
                                    <int>
## 1 automatic
                         auto(av)
                                        5
## 2 automatic
                         auto(13)
                                        2
## 3 automatic
                         auto(14)
                                       83
## 4 automatic
                         auto(15)
                                       39
## 5 automatic
                         auto(16)
                                        6
## 6 automatic
                         auto(s4)
                                       3
## 7 automatic
                         auto(s5)
                                       3
## 8 automatic
                         auto(s6)
                                       16
## 9 manual
                         manual(m5)
                                       58
## 10 manual
                         manual(m6)
                                       19
row_number() - add ranks
df <- df %>%
  mutate(`car id` = row_number())
df
## # A tibble: 234 x 17
##
     manufacturer model
                             displ year
                                           cyl trans drv
                                                             cty
                                                                   hwy fl
                                                                              class
      <chr>
                             <dbl> <int> <int> <chr> <int> <int> <int> <chr> <int> <int> <int> <chr>
##
                  <chr>
## 1 audi
                  a4
                               1.8 1999
                                             4 auto~ f
                                                              18
                                                                    29 p
                                                                             comp~
                                                                    29 p
## 2 audi
                  a4
                               1.8 1999
                                             4 manu~ f
                                                              21
                                                                             comp~
##
  3 audi
                 a4
                               2
                                    2008
                                             4 manu~ f
                                                              20
                                                                    31 p
                                                                             comp~
## 4 audi
                 a4
                               2
                                    2008
                                             4 auto~ f
                                                              21
                                                                    30 p
                                                                             comp~
                               2.8 1999
## 5 audi
                  a4
                                             6 auto~ f
                                                              16
                                                                    26 p
                                                                             comp~
## 6 audi
                               2.8 1999
                 a4
                                             6 manu~ f
                                                              18
                                                                    26 p
                                                                             comp~
## 7 audi
                               3.1 2008
                                             6 auto~ f
                 a4
                                                              18
                                                                    27 p
                                                                             comp~
## 8 audi
                  a4 quattro
                              1.8 1999
                                             4 manu~ 4
                                                              18
                                                                    26 p
                                                                             comp~
## 9 audi
                 a4 quattro 1.8 1999
                                             4 auto~ 4
                                                              16
                                                                    25 p
                                                                             comp~
## 10 audi
                 a4 quattro
                               2
                                    2008
                                             4 manu~ 4
                                                              20
                                                                    28 p
                                                                             comp~
```

```
## # i 224 more rows
## # i 6 more variables: `avg miles per gallon` <dbl>, car <chr>,
## # `cyl / trans` <chr>, `mean hwy` <dbl>, `transmission type` <chr>,
## # `car id` <int>

df <- df %>%
    group_by(manufacturer) %>%
    mutate(`car id1` = row_number()) %>%
    ungroup()
```

## Transform table holding flights data

```
df <- hflights
```

## count number of rows/columns, different flights

```
nrow(df); ncol(df)

## [1] 227496

## [1] 21

df %>%
    count(UniqueCarrier, FlightNum, TailNum, Year, Month, DayofMonth) %>%
    arrange(desc(n))
```

##		UniqueCarrier	Fligh+Num	TailNum	Voor	Month	DawofMonth	n
	1	AA	322			7	9	
	2	AA	322			7	_	1
##	_	AA	322			6	18	
##		AA	322			7	30	
##		AA	322			7	16	
##	-	AA	322			8	20	
	7	AA	322			6	25	
##	8	AA	322			6	11	
##		AA	322			8	6	1
##	10	AA	322			8	13	1
##	11	AA	322	N574AA	2011	7	23	1
##	12	AA	426	N200AA	2011	7	14	1
##	13	AA	426	N201AA	2011	6	8	1
##	14	AA	426	N262AA	2011	4	10	1
##	15	AA	426	N424AA	2011	8	5	1
##	16	AA	426	N425AA	2011	4	28	1
##	17	AA	426	N433AA	2011	12	15	1
##	18	AA	426	N434AA	2011	12	20	1
##	19	AA	426	N435AA	2011	5	26	1
##	20	AA	426	N436AA	2011	6	19	1
##	21	AA	426	N439AA	2011	4	19	1
##	22	AA	426	N439AA	2011	8	22	1
##	23	AA	426	N461AA	2011	6	2	1
##	24	AA	426	N463AA	2011	4	26	1
##	25	AA	426	N467AA	2011	7	19	1
##	26	AA	426	N468AA	2011	4	12	1
##	27	AA	426	N469AA	2011	4	23	1
##	28	AA	426	N477AA	2011	4	18	1

##	29	AA	426	N481AA	2011	6	13 1
##	30	AA	426	N482AA	2011	5	3 1
##	31	AA	426	N482AA	2011	7	11 1
##	32	AA	426	N486AA	2011	8	15 1
##	33	AA	426	N489AA	2011	7	31 1
##	34	AA	426	N490AA	2011	7	26 1
##	35	AA	426	N492AA	2011	5	22 1
##	36	AA	426	N495AA	2011	6	12 1
##	37	AA	426	N499AA	2011	4	29 1
##	38	AA	426	N4UBAA	2011	5	19 1
##	39	AA	426	N4WDAA	2011	6	27 1
##	40	AA	426	N4WDAA	2011	8	12 1
##	41	AA	426	N4WJAA	2011	6	9 1
##	42	AA	426	N4WJAA	2011	7	10 1
##	43	AA	426	N4WLAA	2011	4	20 1
##	44	AA	426	N4WLAA	2011	5	4 1
##	45	AA	426	N4WLAA	2011	6	22 1
##	46	AA	426	N4WNAA	2011	6	14 1
##	47	AA	426	N4WSAA	2011	4	17 1
##	48	AA	426	N4WSAA	2011	6	17 1
##	49	AA	426	N4WTAA	2011	7	25 1
##	50	AA	426	${\tt N4WVAA}$	2011	5	11 1
##	51	AA	426	${\tt N4WWAA}$	2011	7	15 1
##	52	AA	426	${\tt N4WXAA}$	2011	4	25 1
##	53	AA	426	N4WXAA	2011	5	9 1
##	54	AA	426	N4WXAA	2011	6	26 1
##	55	AA	426	N4XCAA	2011	5	13 1
##	56	AA	426	N4XDAA	2011	6	4 1
##	57	AA	426	N4XDAA	2011	6	10 1
##	58	AA	426	N4XEAA	2011	8	16 1
##	59	AA	426	N4XFAA	2011	8	14 1
##	60	AA	426	N4XHAA	2011	5	7 1
##	61	AA	426	N4XHAA	2011	5	8 1
##	62	AA	426	N4XHAA	2011	5	14 1
##	63	AA	426	N4XHAA	2011	6	16 1
##	64	AA	426	N4XHAA		12	18 1
##	65	AA	426	N4XJAA		6	24 1
##	66	AA	426	N4XJAA	2011	7	7 1
##	67	AA	426	N4XKAA	2011	7	6 1
##	68	AA	426	N4XMAA	2011	4	6 1
##	69	AA	426	N4XNAA	2011	4	15 1
##	70	AA	426	N4XNAA	2011	8	18 1
##	71	AA	426	N4XUAA	2011	6	20 1
##	72	AA	426	N4XVAA	2011	4	14 1
##	73	AA	426	N4XVAA	2011	5	16 1
##	74	AA	426	N4XVAA	2011	6	1 1
##	75	AA	426	N4XWAA	2011	6	30 1
##	76	AA	426	N4XXAA	2011	4	8 1
##	77	AA	426	N4XXAA	2011	5	27 1
	78	AA	426	N4YCAA		5	5 1
	79	AA	426	N4YCAA		8	11 1
	80	AA	426	N4YCAA		8	17 1
##		AA	426	N4YCAA		12	22 1
##	82	AA	426	N4YDAA	2011	6	7 1

##	83	AA	426	N4YDAA	2011	12	19 1
##		AA	426	N4YFAA		7	20 1
##		AA	426	N4YHAA		7	22 1
##		AA	426	N4YLAA		4	16 1
##		AA	426	N4YLAA		12	26 1
##		AA	426	N4YMAA		7	21 1
##		AA	426	N4YNAA		4	21 1
##		AA	426	N4YNAA		7	1 1
##		AA	426	N4YPAA		6	23 1
##	92	AA	426	N4YRAA		5	31 1
##	93	AA	426	N4YRAA		7	12 1
##	94	AA	426	N4YSAA		5	17 1
##	95	AA	426	N4YTAA		12	27 1
##	96	AA	426	N503AA		5	10 1
##	97	AA	426	N503AA		6	15 1
##	98	AA	426	N505AA		7	29 1
##	99	AA	426	N508AA		5	24 1
##	100	AA	426	N508AA		5	25 1
##	101	AA	426	N510AA		12	23 1
##	102	AA	426	N511AA		7	28 1
##	103	AA	426	N514AA		4	11 1
##	104	AA	426	N514AA		5	12 1
##	105	AA	426	N514AA		12	28 1
##	106	AA	426	N525AA		5	2 1
##	107	AA	426	N531AA		6	29 1
##	108	AA	426	N531AA		7	4 1
##	109	AA	426	N532AA		8	4 1
##	110	AA	426	N536AA		8	2 1
##	111	AA	426	N536AA		8	8 1
##	112	AA	426	N542AA		4	13 1
##	113	AA	426	N542AA		7	27 1
##	114	AA	426	N543AA		4	27 1
##	115	AA	426	N544AA		7	13 1
	116	AA	426	N547AA		5	6 1
	117	AA	426	N547AA		5	21 1
##	118	AA	426	N548AA		4	7 1
	119	AA	426	N548AA		8	1 1
	120	AA	426	N552AA		6	5 1
	121	AA	426	N558AA		8	7 1
	122	AA	426	N564AA		8	10 1
	123	AA	426	N565AA		5	20 1
	124	AA	426	N565AA		6	21 1
	125	AA	426	N566AA		4	5 1
	126	AA	426	N566AA		5	30 1
	127	AA	426	N566AA		6	3 1
	128	AA	426	N566AA		6	28 1
	129	AA	426	N567AA		4	9 1
	130	AA	426	N567AA		8	9 1
	131	AA	426	N568AA		4	22 1
	132	AA	426	N568AA		4	30 1
	133	AA	426	N571AA		7	8 1
	134	AA	426	N578AA		12	29 1
	135	AA	426	N588AA		12	16 1
	136	AA	426	N589AA		5	15 1
<b></b>						•	10 1

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	137	AA	426	N589AA		12	21 1
	138	AA	426	N590AA		5	23 1
	139	AA	426	N590AA		7	24 1
##	140	AA	426	N591AA		7	5 1
##	141	AA	426	N592AA	2011	5	18 1
##	142	AA	426	N593AA	2011	8	3 1
##	143	AA	426	N593AA	2011	8	21 1
##	144	AA	426	N593AA	2011	12	30 1
##	145	AA	426	N594AA	2011	4	24 1
##	146	AA	426	N594AA		6	6 1
##	147	AA	426	N596AA		5	1 1
##	148	AA	426	N596AA		7	18 1
##	149	AA	426	N596AA		8	19 1
##	150	AA	426	N597AA		7	17 1
##	151	AA	428	N251AA		1	21 1
##							
	152	AA	428	N262AA		1	6 1
##	153	AA	428	N403AA		1	4 1
##	154	AA	428	N425AA		1	20 1
	155	AA	428	N425AA		2	4 1
	156	AA	428	N462AA		1	15 1
	157	AA	428	N463AA		2	2 1
	158	AA	428	N466AA		2	7 1
	159	AA	428	N474AA		2	1 1
	160	AA	428	N476AA	2011	1	9 1
##	161	AA	428	N476AA	2011	1	13 1
##	162	AA	428	N477AA	2011	1	8 1
##	163	AA	428	N479AA	2011	1	23 1
##	164	AA	428	N491AA	2011	1	29 1
##	165	AA	428	N492AA	2011	1	5 1
##	166	AA	428	N493AA		1	7 1
##	167	AA	428	N4UBAA		1	28 1
##	168	AA	428	N4UCAA		2	5 1
##	169	AA	428	N4WVAA		2	8 1
##	170	AA	428	N504AA		1	10 1
##	171	AA	428	N505AA		1	31 1
##	172	AA	428	N507AA		1	18 1
	173	AA	428	N512AA		1	27 1
	174	AA	428	N518AA		1	17 1
	175	AA	428	N523AA		1	19 1
	176	AA	428	N528AA		2	9 1
	177	AA	428	N531AA		1	24 1
	178	AA	428	N541AA		1	3 1
	179	AA	428	N541AA		1	26 1
	180	AA	428	N548AA		2	3 1
	181	AA	428	N551AA		1	22 1
##	182	AA	428	N552AA	2011	1	14 1
##	183	AA	428	N555AA		1	16 1
##	184	AA	428	N557AA	2011	1	2 1
##	185	AA	428	N560AA	2011	2	6 1
##	186	AA	428	N561AA	2011	1	25 1
	187	AA	428	N561AA		1	30 1
	188	AA	428	N565AA		1	11 1
	189	AA	428	N576AA		1	1 1
	190	AA	428	N577AA		1	12 1
						_	

##	191	AA	458	N274AA	2011	2	12 1
##	192	AA	458	N278AA	2011	3	12 1
##	193	AA	458	N278AA	2011	9	22 1
##	194	AA	458	N424AA	2011	9	1 1
##	195	AA	458	N425AA	2011	3	24 1
##	196	AA	458	N426AA	2011	3	3 1
##	197	AA	458	N434AA	2011	3	27 1
##	198	AA	458	N436AA	2011	9	27 1
##	199	AA	458	N455AA		10	30 1
##	200	AA	458	N456AA		2	23 1
##	201	AA	458	N456AA		4	2 1
##	202	AA	458	N459AA		2	27 1
##	203	AA	458	N459AA		9	4 1
##	204	AA	458	N461AA	2011	9	13 1
##	205	AA	458	N466AA	2011	9	2 1
##	206	AA	458	N468AA	2011	3	18 1
##	207	AA	458	N469AA	2011	10	24 1
##	208	AA	458	N478AA		2	19 1
##	209	AA	458	N478AA		10	17 1
##	210	AA	458	N478AA	2011	11	13 1
##	211	AA	458	N479AA	2011	2	18 1
##	212	AA	458	N479AA	2011	11	3 1
##	213	AA	458	N480AA	2011	10	13 1
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##	3643	B6	620	N203JB	2011	4	29 1
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##	3646	B6	620	N206JB	2011	2	28 1

##	3647	В6	620	N206JB	2011	5	2 1
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##	3666	B6	620	N231JB	2011	10	22 1
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##	3671	B6	620	N236JB	2011	3	28 1
##	3672	B6	620	N236JB	2011	4	1 1
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##	3674	B6	620	N236JB	2011	6	3 1
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	3688	B6	620	N247JB		6	20 1
	3689	B6	620	N247JB	2011	12	17 1
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	3695	B6	620	N258JB		6	22 1
	3696	B6	620	N258JB		12	7 1
	3697	B6	620	N265JB		6	8 1
	3698	B6	620	N265JB		10	21 1
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	3700	B6	620	N266JB		3	3 1
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##	3715	B6	620	N267JB		12	21 1
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##	3717	B6	620	N273JB	2011	6	28 1
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##	3719	B6	620	N273JB	2011	12	25 1
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##	3722	B6	620	N274JB	2011	12	29 1
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##	3743	B6	620	N296JB	2011	3	9 1
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##	3745	B6	620	N296JB	2011	10	27 1
##	3746	B6	620	N298JB	2011	5	13 1
##	3747	B6	620	N298JB	2011	12	8 1
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##	3749	B6	620	N304JB		4	11 1
	3750	В6	620	N304JB		5	7 1
	3751	В6	620	N304JB		11	21 1
	3752	В6	620	N304JB		11	30 1
	3753	В6	620	N304JB		12	5 1
	3754	B6	620	N306JB		5	8 1

##	2755	D.C	600	MOOG ID	2011	6	0.1
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##	3758	B6	620	N306JB		6	29 1
##	3759	B6	620	N306JB	2011	12	14 1
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##	3780	B6	620	N317JB	2011	12	3 1
##	3781	B6	620	N317JB	2011	12	30 1
##	3782	В6	620	N318JB	2011	2	23 1
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	3786	В6	620	N323JB		4	6 1
	3787	B6	620	N323JB		4	27 1
	3788	B6	620	N323JB		6	30 1
	3789	B6	620	N323JB		10	18 1
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	3791	B6	620	N324JB		1	1 1
							2 1
	3792 3793	B6 B6	620 620	N324JB N324JB		1 4	7 1
	3794						
		B6	620	N324JB		10	23 1
	3795	B6	620	N324JB		12	18 1
	3796	B6	620	N328JB		6	9 1
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##	3823	B6	620	N523JB		9	24 1
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##	3831	В6	620	N527JB	2011	7	5 1
	3832	В6	620	N527JB		8	12 1
	3833	В6	620	N527JB		9	2 1
	3834	B6	620	N527JB		10	8 1
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	3839	B6	620	N536JB		9	29 1
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	3858	В6	620	N579JB		9	9 1
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	3859	B6		N579JB		10	
	3860	B6	620	N580JB		1	23 1
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##	3863	В6	620	N585JB	2011	7	7 1
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	3882	B6	620	N599JB		1	9 1
	3883	B6	620	N599JB		7	11 1
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	3885	B6	620	N603JB		9	16 1
	3886	B6	620	N605JB		1	24 1
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	3889	B6	620	N606JB		8	20 1
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	3895	B6	620	N612JB		8	14 1
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	3913	B6	620	N639JB		8	16 1
	3914	B6	620	N640JB	2011	7	12 1
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##				N652JB			
	3926	B6	620			9	
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	3939	B6	620	N663JB		7	23 1
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	3944	B6	620	N706JB		1	16 1
	3945	B6	620	N706JB		8	26 1
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	3956	B6	620	N784JB		7	10 1
	3957	B6	620	N784JB		9	10 1
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	3959						
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	3961	B6	622	N178JB		6	26 1
	3962	B6	622	N179JB		11	23 1
	3963	B6	622	N183JB		6	13 1
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	3978	B6	622	N203JB		5	28	1
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	3994	B6	622	N231JB		10	29	1
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	4002	B6	622	N239JB		6		
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##	4012	B6	622	N265JB	2011	10	20	1
##	4013	B6	622	N266JB	2011	6	23	1
##	4014	B6	622	N266JB	2011	6	24	1
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	4016	B6	622	N267JB	2011	5	16	
	4017	B6	622	N267JB		5	18	
	4018	B6	622	N267JB		5	26	
	4019	B6	622	N267JB		6		1
	4020	B6	622	N273JB		5	20	
	4021	B6	622	N273JB		6	18	
	4022	B6	622	N273JB		6	28	
	4023	B6	622	N273JB		12	6	1
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	4026	B6	622	N274JB		5	27 1
	4027	B6	622	N274JB		10	28 1
	4028	B6	622	N274JB		12	12 1
	4029	B6	622	N279JB		5	5 1
	4030	B6	622	N279JB		6	27 1
	4031	B6	622	N281JB		5	19 1
	4032	B6	622	N281JB		6	21 1
	4033	B6	622	N281JB		6	30 1
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	4035	B6	622	N283JB		6	5 1
	4036	B6	622	N283JB		6	10 1
	4037	B6	622	N283JB		10	25 1
	4038	B6	622	N284JB		12	3 1
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	4041	B6	622	N294JB		5	22 1
	4042 4043	B6	622 622	N294JB		12 5	27 1
		B6		N296JB N296JB			31 1
	4044 4045	B6	622 622	N298JB		12	30 1
	4046	B6	622	N298JB		5 6	12 1 2 1
	4047	B6 B6	622	N298JB		6	15 1
	4048	В6	622	N298JB		11	27 1
	4049	B6	622	N304JB		5	6 1
	4050	B6	622	N304JB		11	20 1
	4051	B6	622	N304JB		11	22 1
	4052	B6	622	N306JB		6	25 1
	4053	B6	622	N306JB		12	20 1
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	4056	B6	622	N309JB		5	23 1
	4057	B6	622	N309JB		11	21 1
	4058	В6	622	N316JB		5	4 1
	4059	В6	622	N316JB		6	17 1
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	4063	В6	622	N318JB		12	4 1
	4064	В6	622	N318JB	2011	12	9 1
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##	4073	B6	622	N334JB	2011	11	29 1
##	4074	B6	622	N337JB	2011	11	26 1
##	4075	B6	622	N506JB	2011	10	1 1
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##	4078	B6	622	N509JB	2011	8	20 1

шш	4070	D.C	600	NEOO ID	0011	0	45.4
	4079	B6	622	N509JB		9	15 1
	4080	B6	622	N510JB		9	24 1
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##	4090	B6	622	N527JB	2011	8	12 1
##	4091	B6	622	N527JB	2011	8	17 1
##	4092	B6	622	N527JB	2011	9	2 1
##	4093	B6	622	N527JB	2011	9	21 1
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##	4095	B6	622	N529JB	2011	11	7 1
##	4096	B6	622	N531JB	2011	7	8 1
##	4097	B6	622	N534JB	2011	10	4 1
##	4098	B6	622	N534JB	2011	10	13 1
##	4099	B6	622	N535JB	2011	7	28 1
##	4100	B6	622	N536JB	2011	9	28 1
##	4101	B6	622	N536JB	2011	9	29 1
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##	4106	B6	622	N559JB	2011	11	13 1
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	4109	B6	622	N564JB		11	16 1
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	4111	B6	622	N565JB		10	8 1
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	4118	B6	622	N579JB		10	30 1
	4119	B6	622	N584JB		8	22 1
	4120	В6	622	N584JB		9	10 1
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	4122	B6	622	N585JB		11	14 1
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	4124	В6	622	N587JB		11	3 1
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	4129	B6	622	N590JB		11	9 1
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	4131	B6	622	N592JB		7	24 1
	4132	B6	622	N592JB		7	26 1
	<b></b>	- •	~- <u>-</u> -			•	20 1

##	4122	D.C	600	N592JB	2011	7	20 1
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	4134	B6	622	N593JB		8	6 1
	4135	B6	622	N593JB		9	23 1
	4136	B6	622	N595JB		7	3 1
	4137	B6	622	N598JB		7	31 1
	4138	B6	622	N598JB		11	11 1
	4139	B6	622	N599JB		7	11 1
	4140	B6	622	N599JB		9	5 1
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##	4143	B6	622	N606JB		8	28 1
##	4144	B6	622	N606JB		10	16 1
##	4145	B6	622	N608JB		7	13 1
##	4146	B6	622	N612JB	2011	9	17 1
##	4147	B6	622	N621JB	2011	7	12 1
##	4148	B6	622	N621JB	2011	9	16 1
##	4149	B6	622	N623JB	2011	11	10 1
##	4150	B6	622	N624JB	2011	7	27 1
##	4151	B6	622	N624JB	2011	7	30 1
##	4152	B6	622	N624JB	2011	8	4 1
##	4153	B6	622	N625JB	2011	8	7 1
##	4154	B6	622	N625JB	2011	8	11 1
##	4155	B6	622	N625JB	2011	9	4 1
##	4156	B6	622	N627JB	2011	10	11 1
##	4157	B6	622	N629JB	2011	7	22 1
##	4158	B6	622	N630JB	2011	7	4 1
##	4159	B6	622	N630JB	2011	8	10 1
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##	4165	B6	622	N639JB	2011	8	16 1
##	4166	B6	622	N641JB	2011	7	15 1
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##	4170	B6	622	N643JB	2011	11	5 1
##	4171	B6	622	N644JB	2011	7	9 1
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##	4173	B6	622	N646JB	2011	11	1 1
##	4174	B6	622	N648JB	2011	7	18 1
##	4175	B6	622	N648JB	2011	10	9 1
##	4176	B6	622	N649JB	2011	8	23 1
	4177	B6	622	N649JB	2011	9	12 1
	4178	B6	622	N655JB		10	2 1
##	4179	B6	622	N655JB		10	3 1
	4180	В6	622	N657JB		7	25 1
	4181	В6	622	N658JB		9	11 1
	4182	B6	622	N659JB		7	20 1
	4183	B6	622	N659JB		10	7 1
	4184	B6	622	N661JB		10	6 1
	4185	B6	622	N663JB		8	3 1
	4186	B6	622	N665JB		8	8 1
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##	4187	В6	622	N703JB	2011	7	16 1
	4188	B6	622	N703JB		_	2 1
						8	
	4189	B6	622	N705JB		9	20 1
	4190	B6	622	N706JB		8	26 1
	4191	B6	622	N708JB		8	5 1
	4192	B6	622	N709JB		8	19 1
	4193	B6	622	N709JB		9	3 1
	4194	B6	622	N709JB		10	15 1
	4195	B6	622	N729JB		9	14 1
	4196	B6	622	N746JB		7	17 1
	4197	B6	622	N766JB		9	25 1
	4198	B6	622	N768JB		7	6 1
##		B6	622	N784JB		7	10 1
##		B6	622	N789JB		7	14 1
##	4201	B6	624	N179JB		2	21 1
##	4202	B6	624	N179JB		2	24 1
##	4203	B6	624	N179JB		3	23 1
##	4204	B6	624	N183JB		4	12 1
	4205	B6	624	N187JB		4	21 1
##	4206	B6	624	N190JB		2	20 1
##	4207	B6	624	N192JB		3	6 1
##	4208	B6	624	N192JB		3	16 1
##	4209	B6	624	N197JB	2011	2	22 1
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	4211	B6	624	N198JB	2011	3	22 1
##	4212	B6	624	N198JB	2011	4	5 1
##	4213	B6	624	N206JB	2011	2	28 1
##	4214	B6	624	N206JB	2011	4	7 1
##	4215	B6	624	N206JB	2011	5	1 1
##	4216	B6	624	N216JB	2011	4	18 1
##	4217	B6	624	N216JB	2011	4	20 1
##	4218	B6	624	N216JB	2011	4	22 1
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##	4220	B6	624	N228JB	2011	2	19 1
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##	4222	B6	624	N228JB	2011	4	28 1
##	4223	B6	624	N228JB	2011	4	29 1
##	4224	B6	624	N229JB	2011	3	7 1
##	4225	B6	624	N229JB	2011	3	14 1
##	4226	B6	624	N236JB	2011	3	28 1
##	4227	B6	624	N236JB	2011	3	29 1
##	4228	B6	624	N238JB	2011	4	6 1
##	4229	B6	624	N239JB	2011	4	10 1
##	4230	B6	624	N247JB	2011	4	14 1
##	4231	B6	624	N258JB	2011	3	18 1
##	4232	B6	624	N265JB	2011	4	15 1
##	4233	B6	624	N266JB	2011	3	3 1
	4234	B6	624	N266JB		3	31 1
	4235	B6	624	N267JB	2011	3	24 1
	4236	В6	624	N273JB		2	25 1
	4237	В6	624	N273JB		4	24 1
	4238	В6	624	N283JB		3	27 1
	4239	В6	624	N283JB		4	27 1
	4240	B6	624	N283JB		5	3 1

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	4241	B6	624	N289JB		2	17	1
##	4242	B6	624	N289JB	2011	3	30	1
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	4247	B6	624	N298JB		3	13	
	4248	B6	624	N298JB		4		1
	4249	B6	624	N306JB		4	17	
				N300JB N307JB				
	4250	B6	624			3	10	1
	4251	B6	624	N307JB		3		1
	4252	B6	624	N316JB		3	1	1
	4253	B6	624	N316JB		3		1
	4254	B6	624	N316JB		3		1
##	4255	B6	624	N316JB		3	25	1
##	4256	B6	624	N316JB		4	8	1
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##	4258	B6	624	N316JB	2011	4	25	1
##	4259	B6	624	N316JB	2011	5	2	1
##	4260	B6	624	N317JB	2011	3	15	1
##	4261	B6	624	N317JB	2011	3	21	1
##	4262	В6	624	N317JB	2011	4	3	1
##	4263	В6	624	N317JB		4	4	1
	4264	В6	624	N318JB		2		1
	4265	B6	624	N318JB		4		1
	4266	B6	624	N323JB		3	17	1
	4267	B6	624	N323JB		4	26	1
	4268	B6	624	N504JB		1		1
	4269	B6	624	N504JB		1	12	1
	4270	B6	624	N504JB		1		1
	4271	B6	624	N531JB		2	6	1
	4272	B6	624	N536JB		1		1
	4273	B6	624	N537JB		1		1
	4274	B6	624	N552JB		2	3	1
	4275	B6	624	N558JB		2	1	1
	4276	B6	624	N564JB		1	7	1
##	4277	B6	624	N565JB		1	16	1
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##	4279	B6	624	N569JB	2011	1	27	1
##	4280	B6	624	N570JB	2011	2	4	1
##	4281	B6	624	N586JB	2011	2	11	1
##	4282	B6	624	N597JB	2011	1	13	1
##	4283	B6	624	N598JB	2011	1	21	1
##	4284	B6	624	N599JB	2011	1	23	1
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	4286	В6	624	N606JB	2011	2	8	1
	4287	В6	624	N607JB		2		1
	4288	B6	624	N615JB		2	15	1
	4289	B6	624	N618JB		2	9	1
	4290	B6	624	N621JB		1	25	
	4291	B6	624	N625JB		1	9	
	4292	В6	624	N629JB		1	31	
						2		
	4293	B6	624	N630JB			13	
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##	4301	B6	624	N729JB	2011	1	18 1
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	4336	CO	1	N66056		6	21 1
	4337	CO	1	N66056		9	6 1
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	4342	CO	1	N66056		12	13 1
	4343	CO	1	N66057		1	18 1
	4344	CO	1	N66057		10	18 1
	4345	CO	1	N66057		11	4 1
	4346	CO	1	N66057 N66057		11	11 1
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	4352	CO	1	N67052	2011	8	18 1
	4353	CO	1	N67052	2011	11	12 1
	4354	CO	1	N67052	2011	11	18 1
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##	4363	CO	1	N67058	2011	11	15 1
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	4389	CO	1	N69063		1	31 1
	4390	CO	1	N69063		2	2 1
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ii TT	10001	J-0	200	10,001		•	10 1

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##	14035	CO	326	N73283	2011	2	19 1
##	14036	CO	326	N73283	2011	3	8 1
##	14037	CO	326	N73283	2011	5	28 1
##	14038	CO	326	N75425	2011	1	2 1
##	14039	CO	326	N75425	2011	4	3 1
##	14040	CO	326	N75426	2011	4	30 1
##	14041	CO	326	N75428	2011	4	18 1
##	14042	CO	326	N75428	2011	6	19 1
##	14043	CO	326	N75433	2011	4	27 1
##	14044	CO	326	N75435	2011	4	9 1
##	14045	CO	326	N75436	2011	4	29 1
##	14046	CO	326	N76254	2011	5	16 1
##	14047	CO	326	N76505	2011	5	5 1
##	14048	CO	326	N76508	2011	6	24 1
##	14049	CO	326	N76514	2011	1	6 1
##	14050	CO	326	N76514	2011	1	18 1
##	14051	CO	326	N76515	2011	1	21 1
##	14052	CO	326	N76515	2011	2	13 1
##	14053	CO	326	N76516	2011	1	14 1
##	14054	CO	326	N76516	2011	6	10 1
##	14055	CO	326	N76517	2011	2	4 1
##	14056	CO	326	N76517	2011	6	20 1
##	14057	CO	326	N76517	2011	6	29 1
##	14058	CO	326	N76522	2011	1	23 1
##	14059	CO	326	N76526	2011	1	26 1
##	14060	CO	326	N76526	2011	2	7 1
##	14061	CO	326	N76529	2011	3	16 1
##	14062	CO	326	N77258	2011	6	14 1
##	14063	CO	326	N77295	2011	3	24 1
##	14064	CO	326	N77295	2011	5	24 1
##	14065	CO	326	N77296	2011	1	28 1
##	14066	CO	326	N77430	2011	1	1 1
##	14067	CO	326	N77518		6	2 1
##	14068	CO	326	N77518	2011	6	3 1

	14069	CO	326	N77520	2011	6	9 1
	14070	CO	326	N77520	2011	6	17 1
	14071	CO	326	N77525	2011	1	17 1
	14072	CO	326	N77525	2011	1	20 1
	14073	CO	326	N77525	2011	2	6 1
	14074	CO	326	N77525		2	14 1
	14075	CO	326	N78501	2011	3	21 1
##	14076	CO	326	N78501	2011	5	23 1
##	14077	CO	326	N78501	2011	6	7 1
##	14078	CO	326	N78501	2011	6	21 1
##	14079	CO	326	N78506	2011	3	31 1
##	14080	CO	326	N78506	2011	5	26 1
##	14081	CO	326	N78509	2011	1	9 1
##	14082	CO	326	N78509	2011	1	12 1
##	14083	CO	326	N78509	2011	1	24 1
##	14084	CO	326	N78509	2011	2	8 1
##	14085	CO	326	N78509	2011	3	13 1
##	14086	CO	326	N78509	2011	6	23 1
##	14087	CO	326	N78511	2011	6	27 1
##	14088	CO	326	N78524	2011	1	13 1
##	14089	CO	326	N79521	2011	1	16 1
##	14090	CO	326	N79521	2011	6	28 1
##	14091	CO	326	N87507	2011	2	1 1
##	14092	CO	326	N87507	2011	3	17 1
##	14093	CO	326	N87513	2011	1	7 1
##	14094	CO	326	N87513	2011	1	10 1
##	14095	CO	326	N87513	2011	1	19 1
##	14096	CO	326	N87513	2011	1	25 1
##	14097	CO	326	N87527	2011	5	27 1
##	14098	CO	332		2011	2	1 1
##	14099	CO	332		2011	2	4 1
##	14100	CO	332	N11206	2011	6	21 1
##	14101	CO	332	N11612	2011	3	12 1
##	14102	CO	332	N12216		4	8 1
##	14103	CO	332	N12218		2	20 1
##	14104	CO	332	N12225		4	23 1
	14105	CO	332	N12238		5	11 1
##	14106	CO	332	N12238	2011	5	21 1
##	14107	CO	332	N13750		1	15 1
	14108	CO	332	N13750	2011	2	12 1
##	14109	CO	332	N14214	2011	3	29 1
##	14110	CO	332	N14219	2011	2	23 1
##	14111	CO	332	N14219		3	15 1
##	14112	CO	332	N14219		5	29 1
##	14113	CO	332	N14228	2011	1	3 1
##	14114	CO	332	N14230	2011	1	27 1
##	14115	CO	332	N14230	2011	4	30 1
##	14116	CO	332	N14231	2011	6	1 1
##	14117	CO	332	N14242	2011	4	19 1
##	14118	CO	332	N14242	2011	4	22 1
	14119	CO	332	N14242		5	27 1
##	14120	CO	332	N14250	2011	5	2 1
##	14121	CO	332	N14250	2011	5	13 1
##	14122	CO	332	N14613	2011	4	6 1

	14123	CO	332	N14639	2011	4	17 1
##	14124	CO	332	N14645	2011	4	10 1
##	14125	CO	332	N14653	2011	2	26 1
##	14126	CO	332	N15710		5	25 1
##	14127	CO	332	N16217	2011	6	28 1
##	14128	CO	332	N16648	2011	4	2 1
##	14129	CO	332	N16648	2011	4	20 1
##	14130	CO	332	N16713	2011	3	26 1
##	14131	CO	332	N17233	2011	4	12 1
##	14132	CO	332	N17244	2011	1	22 1
##	14133	CO	332	N17245	2011	3	30 1
##	14134	CO	332	N17245	2011	5	7 1
##	14135	CO	332	N17614	2011	4	3 1
##	14136	CO	332	N17627	2011	4	27 1
##	14137	CO	332	N18220	2011	1	18 1
##	14138	CO	332	N18220	2011	6	20 1
##	14139	CO	332	N18622	2011	5	1 1
##	14140	CO	332	N19621	2011	3	19 1
##	14141	CO	332	N19638	2011	4	24 1
##	14142	CO	332	N23707	2011	1	8 1
##	14143	CO	332	N24211	2011	6	23 1
##	14144	CO	332	N24212	2011	4	18 1
##	14145	CO	332	N24224	2011	5	19 1
##	14146	CO	332	N24224	2011	6	30 1
##	14147	CO	332	N24729	2011	5	4 1
##	14148	CO	332	N26210		3	16 1
##	14149	CO	332	N26226	2011	3	3 1
##	14150	CO	332	N26226	2011	6	10 1
##	14151	CO	332	N27239	2011	4	11 1
##	14152	CO	332	N27610	2011	5	3 1
##	14153	CO	332	N33262	2011	5	17 1
##	14154	CO	332	N33264	2011	1	17 1
##	14155	CO	332	N33264	2011	3	11 1
	14156	CO	332	N33264	2011	4	21 1
	14157	CO	332	N33264	2011	6	8 1
##	14158	CO	332	N33266		1	7 1
##	14159	CO	332	N33266		2	2 1
##	14160	CO	332	N33266	2011	2	7 1
	14161	CO	332	N33266	2011	4	13 1
	14162	CO	332	N33284		3	23 1
	14163	CO	332	N33284		6	26 1
	14164	CO	332	N33286		3	28 1
	14165	CO	332	N33294		6	29 1
	14166	CO	332	N34282		4	26 1
	14167	CO	332	N35260		3	24 1
	14168	CO	332	N35260		5	26 1
	14169	CO	332	N35271		1	28 1
	14170	CO	332	N35271		5	16 1
	14171	CO	332	N36207		3	4 1
	14172	CO	332	N36247		6	25 1
	14173	CO	332	N36272		3	31 1
	14174	CO	332	N36272		6	5 1
	14175	CO	332	N36280		6	11 1
	14176	CO	332	N37253		3	8 1
		-			-		

##	14177	CO	332	N37255	2011	1	19 1
##	14178	CO	332	N37255	2011	4	28 1
##	14179	CO	332	N37255	2011	5	14 1
##	14180	CO	332	N37263		3	18 1
##	14181	CO	332	N37267		1	14 1
##	14182	CO	332	N37267		2	14 1
##	14183	CO	332	N37267		2	15 1
##	14184	CO	332	N37267		5	5 1
##	14185	CO	332	N37267	2011	5	30 1
##	14186	CO	332	N37267	2011	6	2 1
##	14187	CO	332	N37273	2011	2	16 1
##	14188	CO	332	N37273	2011	5	8 1
##	14189	CO	332	N37273	2011	6	6 1
##	14190	CO	332	N37274		1	5 1
##	14191	CO	332	N37274		1	20 1
##	14192	CO	332	N37274		3	25 1
##				N37277			
	14193	CO	332			5	10 1
##	14194	CO	332	N37277		5	24 1
##	14195	CO	332	N37281		6	15 1
##	14196	CO	332	N37287		1	2 1
##	14197	CO	332	N37290		3	6 1
##	14198	CO	332	N37290	2011	6	17 1
##	14199	CO	332	N37293	2011	4	14 1
##	14200	CO	332	N38257	2011	2	25 1
##	14201	CO	332	N38268	2011	1	6 1
##	14202	CO	332	N38268	2011	3	10 1
##	14203	CO	332	N38268	2011	3	20 1
##	14204	CO	332	N38268		3	21 1
##	14205	CO	332	N38268		3	27 1
##	14206	CO	332	N38268		5	20 1
##	14207	CO	332	N39297		3	13 1
##	14208	CO	332	N39297		3	14 1
##	14209	CO	332	N39297		4	7 1
##	14210	CO	332	N39297		4	9 1
##	14211	CO	332	N39726		2	5 1
##	14212	CO	332	N39728		2	9 1
##	14213	CO	332	N46625	2011	2	27 1
##	14214	CO	332	N54711	2011	1	29 1
##	14215	CO	332	N54711	2011	5	18 1
##	14216	CO	332	N73256	2011	4	5 1
##	14217	CO	332	N73256	2011	6	3 1
##	14218	CO	332	N73270	2011	1	11 1
	14219	CO	332	N73270		2	10 1
	14220	CO	332	N73275		2	11 1
	14221	CO	332	N73275		5	15 1
	14222	CO	332	N73276		1	12 1
						1	
	14223	CO	332	N73276			13 1
	14224	CO	332	N73276		1	25 1
	14225	CO	332	N73276		1	31 1
	14226	CO	332	N73276		2	3 1
	14227	CO	332	N73276		2	8 1
	14228	CO	332	N73283		4	25 1
	14229	CO	332	N73291		6	16 1
##	14230	CO	332	N76254	2011	6	14 1

##	14231	CO	332	N76265	2011	1	10 1
##	14232	CO	332	N76265	2011	5	23 1
##	14233	CO	332	N76265	2011	6	13 1
##	14234	CO	332	N76265	2011	6	27 1
##	14235	CO	332	N76269		1	21 1
##	14236	CO	332	N76269		3	17 1
##	14237	CO	332	N76269		4	1 1
##	14238	CO	332	N76269		5	12 1
##	14239	CO	332	N76288		1	1 1
##	14240	CO	332	N76502		4	4 1
##	14241	CO	332	N76503		3	9 1
##	14242	CO	332	N76504		6	19 1
##	14243	CO	332	N76505		3	1 1
##	14244	CO	332	N76505	2011	4	29 1
##	14245	CO	332	N76514	2011	5	22 1
##	14246	CO	332	N76515	2011	3	7 1
##	14247	CO	332	N76516	2011	2	17 1
##	14248	CO	332	N76519	2011	3	2 1
##	14249	CO	332	N76526	2011	2	21 1
##	14250	CO	332	N76526	2011	3	5 1
##	14251	CO	332	N76529		2	19 1
##	14252	CO	332	N77258		6	12 1
##	14253	CO	332	N77258		6	18 1
##	14254	CO	332	N77261		1	4 1
##	14255	CO	332	N77261		1	24 1
##	14256	CO	332	N77261		1	26 1
##	14257	CO	332	N77261		5	6 1
##	14258	CO	332	N77295		6	24 1
##	14259	CO	332	N77296		6	4 1
##	14260	CO	332	N77510		2	24 1
##	14261	CO	332	N77510	2011	4	15 1
##	14262	CO	332	N77510	2011	6	7 1
##	14263	CO	332	N77518	2011	2	22 1
##	14264	CO	332	N77520	2011	4	16 1
##	14265	CO	332	N77525	2011	5	31 1
##	14266	CO	332	N78285	2011	5	28 1
##	14267	CO	332	N78501	2011	6	9 1
##	14268	CO	332	N78511	2011	2	18 1
##	14269	CO	332	N87507		6	22 1
	14270	CO	332	N87512		3	22 1
	14271	CO	332	N87513		5	9 1
	14272	CO	332	N87527		2	28 1
	14272	CO		N21723		5	
			337			3	
	14274	CO	343	N14242			2 1
	14275	CO	343	N18220		3	4 1
	14276	CO	343	N26208		2	21 1
	14277	CO	343	N26210		2	19 1
	14278	CO	343	N26226		3	1 1
	14279	CO	343	N27205		2	28 1
	14280	CO	343	N27213		2	18 1
##	14281	CO	343	N33203	2011	2	23 1
##	14282	CO	343	N33284	2011	2	24 1
##	14283	CO	343	N33286	2011	2	26 1
##	14284	CO	343	N36207	2011	2	17 1

how many columns begin with word "Taxi"?

```
df %>%
  select(starts_with("Taxi")) %>%
  head()
```

```
TaxiIn TaxiOut
##
## 5424
             7
                    9
## 5425
             6
## 5426
            5
                    17
## 5427
             9
                    22
             9
## 5428
                     9
## 5429
             6
                    13
```

## 2 >= 1000 miles 65389

how many flights were flown less than 1000 miles / greater or equal than 1000 miles

flights per carrier - sort by top to bottom

```
df %>%
  group_by(UniqueCarrier) %>%
  count() %>%
  ungroup() %>%
  arrange(desc(n))
```

```
## # A tibble: 15 x 2
##
     UniqueCarrier
##
      <chr>
                    <int>
                    73053
## 1 XE
## 2 CO
                    70032
## 3 WN
                    45343
## 4 00
                    16061
## 5 MQ
                     4648
                     4082
## 6 US
## 7 AA
                     3244
## 8 DL
                     2641
## 9 EV
                     2204
## 10 FL
                     2139
## 11 UA
                     2072
## 12 F9
                      838
## 13 B6
                      695
## 14 AS
                      365
```

## 15 YV 79

#### number of cancelled flights per carrier

```
df %>% count(Cancelled) # 1 for cancelled
     Cancelled
## 1
             0 224523
## 2
                2973
df %>%
  filter(Cancelled == 1) %>%
  group_by(UniqueCarrier) %>%
  count() %>%
  ungroup() %>%
  arrange(desc(n))
## # A tibble: 14 x 2
##
     UniqueCarrier
##
      <chr>
                    <int>
## 1 XE
                     1132
## 2 WN
                      703
## 3 CO
                      475
## 4 00
                      224
## 5 MQ
                      135
                      76
## 6 EV
                       60
## 7 AA
## 8 US
                       46
## 9 DL
                       42
                       34
## 10 UA
## 11 FL
                       21
## 12 B6
                       18
## 13 F9
                        6
## 14 YV
                        1
```

# percentage of cancelled flights per carrier

```
# count flights break down by cancellation
group_by(UniqueCarrier, Cancelled) %>%
count() %>%
ungroup() %>%
# calculate total flights
group_by(UniqueCarrier) %>%
mutate(`n tot` = sum(n)) %>%
ungroup() %>%
# calculate percentages
mutate(`n percent %` = (n / `n tot`) * 100) %>%
# keep only cancelled flights - arrange top to bottom
filter(Cancelled == 1) %>%
arrange(desc(`n percent %`))
```

```
## # A tibble: 14 x 5
## UniqueCarrier Cancelled n `n tot` `n percent %`
## <chr> <int> <int> <int> <dbl>
```

```
## 1 EV
                                  76
                                        2204
                                                      3.45
##
   2 MQ
                                 135
                                         4648
                                                      2.90
                             1
## 3 B6
                             1
                                  18
                                         695
                                                      2.59
                                        3244
## 4 AA
                             1
                                  60
                                                      1.85
## 5 UA
                                  34
                                        2072
                                                      1.64
## 6 DL
                                  42
                                        2641
                                                      1.59
                             1
## 7 WN
                             1
                                 703
                                       45343
                                                      1.55
## 8 XE
                             1 1132
                                       73053
                                                      1.55
## 9 00
                             1
                                 224
                                       16061
                                                      1.39
## 10 YV
                                          79
                             1
                                  1
                                                      1.27
## 11 US
                             1
                                  46
                                        4082
                                                      1.13
## 12 FL
                                  21
                                        2139
                                                      0.982
                             1
## 13 F9
                                         838
                             1
                                   6
                                                      0.716
## 14 CO
                                 475
                                       70032
                                                      0.678
                             1
```

create column date by combining year + month + dayofmonth (remove this columns)

#### check date range

```
df %>%
  summarise(min = min(Date),
            max = max(Date),
            n_distinct = n_distinct(Date))
                       max n_distinct
            min
## 1 2011-01-01 2011-12-31
                                  365
# count flights per cancellation codes (codes in columns)
# and per carrirs (carriers in rows)
# pivoting required!!!
df %>% count(CancellationCode) # cancellation code "" must have some name other than empty string!
##
     CancellationCode
## 1
                      224523
## 2
                        1202
                    Α
## 3
                        1652
                    С
## 4
                         118
## 5
                    D
  mutate(CancellationCode = case_when(CancellationCode == "" ~ "0", # this is not cancelled flight!!!
                                      TRUE ~ CancellationCode)) %>%
  group_by(UniqueCarrier, CancellationCode) %>%
  count() %>%
  ungroup() %>%
  pivot_wider(names_from = CancellationCode,
```

values\_from = n)

```
## # A tibble: 15 x 6
##
      UniqueCarrier `0`
                                          C
                              Α
                                    В
##
      <chr>
                    <int> <int> <int> <int> <int>
##
   1 AA
                     3184
                             20
                                   29
                                          11
##
   2 AS
                      365
                             NA
                                   NA
##
  3 B6
                      677
                             5
                                   13
                                         NA
                                               NA
  4 CO
                    69557
                             37
                                  436
## 5 DL
                                   27
                                          2
                     2599
                             13
                                               NA
## 6 EV
                     2128
                             60
                                   14
                                          2
## 7 F9
                             2
                                   4
                                         NA
                                               NA
                      832
## 8 FL
                     2118
                             8
                                   12
                                          1
                                               NA
                                         25
## 9 MQ
                     4513
                             39
                                   71
                                               NA
                                   87
## 10 00
                    15837
                            121
                                         15
                                                1
## 11 UA
                     2038
                             21
                                   10
                                          3
                                               NA
## 12 US
                     4036
                             27
                                   17
                                          2
                                               NA
## 13 WN
                    44640
                            517
                                  181
                                          5
                                               NA
## 14 XE
                    71921
                            331
                                  751
                                         50
                                               NA
## 15 YV
                       78
                             1
                                   NA
                                         NA
                                               NA
```

# Column-wise operations: across()

```
mpg <- ggplot2::mpg # mpg data</pre>
```

### summarise() & across()

```
# count distinct values in each column
mpg %>%
 summarise(across(.cols = everything(), # which columns: all columns
               .fns = n_distinct)) # which function: count distinct/unique values
## # A tibble: 1 x 11
  manufacturer model displ year cyl trans
                                         drv
                                              cty
                                                   hwy
##
         ## 1
                      35
                           2
                                4
                                    10
                                          3
                                               21
                                                   27
mpg %>%
summarise(across(everything(),
               n_distinct))
## # A tibble: 1 x 11
   manufacturer model displ year cyl trans
                                         drv cty
                                                  hwy
##
         ## 1
            15
                 38
                      35
                           2
                                4
                                    10
                                                   27
# calculate mean values for selected columns (list of columns)
 summarise(across(c(displ, cty, hwy),
               mean))
## # A tibble: 1 x 3
##
              hwy
    displ
         cty
    <dbl> <dbl> <dbl>
## 1 3.47 16.9 23.4
# calculate median value for all numeric columns
mpg %>%
```

```
summarise(across(where(is.numeric), # "where" clause supports conditions for columns selection!
                  median))
## # A tibble: 1 x 5
## displ year cyl cty hwy
## <dbl> <dbl> <dbl> <dbl> <dbl> <
## 1 3.3 2004.
                    6
                       17
# calculate distinct values of character columns
  summarise(across(where(is.character),
                  n_distinct))
## # A tibble: 1 x 6
    manufacturer model trans drv
##
           <int> <int> <int> <int> <int> <int>
## 1
              15
                    38
                          10 3
# apply more than one function across multiple columns
# - calculate mean and median of all numeric columns
mpg %>%
  summarise(across(where(is.numeric),
                  list(avg = ~mean(.x, na.rm = T),  # multiple functions: provided as a list of fun
                       med = ~median(.x, na.rm = T))))
## # A tibble: 1 x 10
   displ_avg displ_med year_avg year_med cyl_avg cyl_med cty_avg cty_med hwy_avg
##
        <dbl>
                  <dbl>
                           <dbl>
                                  <dbl> <dbl> <dbl> <dbl> <dbl> <
## 1
         3.47
                    3.3
                           2004.
                                    2004.
                                            5.89
                                                     6
                                                            16.9
                                                                     17
                                                                            23.4
## # i 1 more variable: hwy_med <dbl>
avgmed <- list(avg = ~mean(.x, na.rm = T),</pre>
              med = ~median(.x, na.rm = T))
mpg %>%
 summarise(across(where(is.numeric),
                  avgmed))
## # A tibble: 1 x 10
   displ_avg displ_med year_avg year_med cyl_avg cyl_med cty_avg cty_med hwy_avg
        <dbl> <dbl> <dbl>
                                 <dbl> <dbl> <dbl> <dbl> <dbl> <dbl>
         3.47
                    3.3
                           2004.
                                    2004.
                                             5.89
                                                            16.9
                                                       6
                                                                      17
                                                                            23.4
## # i 1 more variable: hwy med <dbl>
# control names of output columns
mpg %>%
  summarise(across(where(is.numeric),
                  avgmed,
                  .names = "{.fn}:{.col}")) # argument used for column name control
## # A tibble: 1 x 10
    `avg:displ` `med:displ` `avg:year` `med:year` `avg:cyl` `med:cyl` `avg:cty`
##
                      <dbl>
                                                      <dbl>
                                                                <dbl>
           <dbl>
                                 <dbl>
                                            <dbl>
                                                                         <dbl>
           3.47
                        3.3
                                 2004.
                                            2004.
                                                      5.89
                                                                          16.9
## # i 3 more variables: `med:cty` <dbl>, `avg:hwy` <dbl>, `med:hwy` <dbl>
# use multiple conditions for column selection
mpg %>%
summarise(across(where(is.numeric) & ends_with("y"),
```

```
median))
## # A tibble: 1 x 2
       cty
             hwy
##
     <dbl> <dbl>
## 1
        17
              24
summarise() ~ group_by() & across()
# calculate sum of all numeric columns break down by car model
mpg %>%
  group_by(model) %>%
  summarise(across(where(is.numeric),
                   sum)) %>%
  ungroup()
## # A tibble: 38 x 6
##
      model
                         displ year
                                                   hwy
                                       cyl
                                             cty
##
                         <dbl> <int> <int> <int> <int>
      <chr>
##
   1 4runner 4wd
                          20.9 12012
                                        34
                                              91
                                                   113
##
  2 a4
                          16.3 14020
                                        34
                                             132
                                                   198
                          19.4 16028
                                             137
                                                   206
   3 a4 quattro
                                        40
                                        20
##
  4 a6 quattro
                          10.1 6015
                                              48
                                                    72
##
   5 altima
                          16.8 12030
                                        28
                                             124
                                                   172
## 6 c1500 suburban 2wd 27.6 10031
                                        40
                                              64
                                                    89
  7 camry
                          18.7 14020
                                        34
                                             139
                                                   198
## 8 camry solara
                          18.5 14020
                                             139
                                                   197
                                        34
## 9 caravan 2wd
                          37.3 22034
                                        64
                                             174
                                                   246
## 10 civic
                          15.4 18027
                                             220
                                        36
                                                   293
## # i 28 more rows
# calculate mean value for selected columns break down by car manufacturer & model
mpg %>%
  group_by(manufacturer, model) %>%
  summarise(across(c(displ, cty, hwy),
                   mean)) %>%
  ungroup()
## # A tibble: 38 x 5
      manufacturer model
                                      displ
                                              ctv
                                                    hwy
##
      <chr>
                   <chr>
                                      <dbl> <dbl> <dbl>
##
   1 audi
                   a4
                                       2.33 18.9
                                                   28.3
                                       2.42 17.1 25.8
##
  2 audi
                   a4 quattro
  3 audi
                   a6 quattro
                                       3.37 16
## 4 chevrolet
                   c1500 suburban 2wd 5.52 12.8 17.8
## 5 chevrolet
                   corvette
                                       6.16 15.4
                                                   24.8
## 6 chevrolet
                   k1500 tahoe 4wd
                                       5.7
                                             12.5 16.2
## 7 chevrolet
                   malibu
                                       3
                                             18.8 27.6
## 8 dodge
                   caravan 2wd
                                       3.39 15.8 22.4
## 9 dodge
                   dakota pickup 4wd
                                       4.41 12.8 17
                                       4.97 11.9 16
## 10 dodge
                   durango 4wd
## # i 28 more rows
```

## mutate() & across()

```
# round up (ceiling) all numeric columns
mpg %>%
 mutate(across(where(is.numeric),
               ~ceiling(.x)))
## # A tibble: 234 x 11
##
     manufacturer model
                              displ year
                                            cyl trans drv
                                                                    hwy fl
                                                                              class
                                                              cty
##
      <chr>
                  <chr>
                              <dbl> <dbl> <dbl> <chr> <chr> <dbl> <dbl> <chr> <chr>
##
   1 audi
                  a4
                                 2 1999
                                             4 auto~ f
                                                               18
                                                                     29 p
                                                                              comp~
                                 2 1999
##
  2 audi
                 a4
                                              4 manu~ f
                                                               21
                                                                     29 p
                                                                              comp~
## 3 audi
                                 2 2008
                                             4 manu~ f
                                                              20
                 a4
                                                                     31 p
                                                                              comp~
## 4 audi
                 a4
                                 2 2008
                                             4 auto~ f
                                                               21
                                                                     30 p
                                                                              comp~
## 5 audi
                                 3 1999
                                             6 auto~ f
                                                              16
                                                                     26 p
                 a4
                                                                              comp~
                                 3 1999
                                                                    26 p
## 6 audi
                 a4
                                             6 manu~ f
                                                              18
                                                                              comp~
## 7 audi
                                 4 2008
                  a4
                                             6 auto~ f
                                                              18
                                                                     27 p
                                                                              comp~
##
   8 audi
                  a4 quattro
                                 2 1999
                                             4 manu~ 4
                                                              18
                                                                     26 p
                                                                              comp~
                                 2 1999
## 9 audi
                  a4 quattro
                                             4 auto~ 4
                                                              16
                                                                     25 p
                                                                              comp~
## 10 audi
                                 2 2008
                                             4 manu~ 4
                                                               20
                  a4 quattro
                                                                     28 p
                                                                              comp~
## # i 224 more rows
# convert all character columns to upper case
mpg %>%
 mutate(across(where(is.character),
               ~str_to_upper(.x)))
## # A tibble: 234 x 11
##
     manufacturer model
                              displ year
                                            cyl trans drv
                                                              cty
                                                                   hwy fl
                                                                              class
##
      <chr>
              <chr>
                              <dbl> <int> <int> <chr> <int> <int> <chr> <int> <int> <chr>
  1 AUDI
                 A4
                               1.8 1999
                                             4 AUTO~ F
                                                                     29 P
                                                                              COMP~
                                                              18
                                                              21
## 2 AUDI
                               1.8 1999
                                             4 MANU~ F
                                                                     29 P
                 A4
                                                                              COMP~
## 3 AUDI
                  Α4
                               2
                                     2008
                                             4 MANU~ F
                                                              20
                                                                     31 P
                                                                              COMP~
## 4 AUDI
                 A4
                               2
                                     2008
                                             4 AUTO~ F
                                                              21
                                                                    30 P
                                                                              COMP~
                               2.8 1999
## 5 AUDI
                 A4
                                             6 AUTO~ F
                                                              16
                                                                    26 P
                                                                              COMP~
## 6 AUDI
                               2.8 1999
                                             6 MANU~ F
                                                                    26 P
                  Α4
                                                              18
                                                                              COMP~
## 7 AUDI
                  A4
                               3.1 2008
                                             6 AUTO~ F
                                                              18
                                                                    27 P
                                                                              COMP~
## 8 AUDI
                  A4 QUATTRO
                              1.8 1999
                                             4 MANU~ 4
                                                              18
                                                                    26 P
                                                                              COMP~
## 9 AUDI
                  A4 QUATTRO
                               1.8 1999
                                             4 AUTO~ 4
                                                              16
                                                                    25 P
                                                                              COMP~
## 10 AUDI
                                     2008
                                             4 MANU~ 4
                                                                     28 P
                  A4 QUATTRO
                               2
                                                              20
                                                                              COMP~
## # i 224 more rows
mutate() ~ group_by() & across()
# calculate mean value for all numeric columns break down by car manufacturer
    - aggregate mean value of numeric columns for each manufacturer
   - keep all the rows!
mpg %>%
  group_by(manufacturer) %>%
  mutate(across(where(is.numeric) & -year, # column "year" is removed from calculation!
                -mean(.x, na.rm = T),
                .names = "{.col}_avg_manufacturer")) %>%
  ungroup()
## # A tibble: 234 x 15
```

318

```
##
      manufacturer model
                              displ year
                                            cyl trans drv
                                                              ctv
                                                                    hwy fl
      <chr>
##
                   <chr>>
                              <dbl> <int> <int> <chr> <int> <int> <chr> <int> <int> <chr>
##
   1 audi
                   a4
                                1.8 1999
                                              4 auto~ f
                                                               18
                                                                     29 p
                                1.8 1999
                                                                     29 p
##
   2 audi
                  a4
                                              4 manu~ f
                                                               21
                                                                              comp~
##
   3 audi
                  a4
                                     2008
                                              4 manu~ f
                                                               20
                                                                     31 p
                                                                              comp~
##
   4 audi
                  a4
                                2
                                     2008
                                              4 auto~ f
                                                               21
                                                                     30 p
                                                                              comp~
   5 audi
                                2.8 1999
##
                  a4
                                              6 auto~ f
                                                               16
                                                                     26 p
                                                                              comp~
  6 audi
                                2.8 1999
##
                  a4
                                              6 manu~ f
                                                               18
                                                                     26 p
                                                                              comp~
##
   7 audi
                   a4
                                3.1 2008
                                              6 auto~ f
                                                               18
                                                                     27 p
                                                                              comp~
##
  8 audi
                   a4 quattro
                                1.8 1999
                                              4 manu~ 4
                                                               18
                                                                     26 p
                                                                              comp~
## 9 audi
                   a4 quattro
                                1.8 1999
                                              4 auto~ 4
                                                               16
                                                                     25 p
                                                                              comp~
## 10 audi
                                     2008
                                              4 manu~ 4
                                                               20
                                                                     28 p
                   a4 quattro
                                2
                                                                              comp~
## # i 224 more rows
## # i 4 more variables: displ_avg_manufacturer <dbl>, cyl_avg_manufacturer <dbl>,
      cty_avg_manufacturer <dbl>, hwy_avg_manufacturer <dbl>
# if_any() / if_all() with filter()
# if_any() : keeps the rows where the predicate is true for at least one selected column
# if_all() : keeps the rows where the predicate is true for all selected columns
starwars <- dplyr::starwars # star wars data set
# filter rows where at least one column doesn't have NA value
starwars %>%
  filter(if_any(.cols = everything(),
               .fns = ~!is.na(.x)))
## # A tibble: 87 x 14
##
     name
              height mass hair_color skin_color eye_color birth_year sex
                                                                             gender
##
      <chr>>
                <int> <dbl> <chr>
                                       <chr>
                                                  <chr>
                                                                 <dbl> <chr> <chr>
##
  1 Luke Sk~
                 172
                         77 blond
                                       fair
                                                  blue
                                                                  19
                                                                       male mascu~
## 2 C-3PO
                 167
                         75 <NA>
                                                  yellow
                                                                 112
                                                                       none mascu~
                                       gold
## 3 R2-D2
                         32 <NA>
                                       white, bl~ red
                  96
                                                                  33
                                                                       none mascu~
## 4 Darth V~
                 202
                        136 none
                                                                  41.9 male mascu~
                                       white
                                                  yellow
## 5 Leia Or~
                 150
                        49 brown
                                       light
                                                  brown
                                                                  19
                                                                       fema~ femin~
## 6 Owen La~
                 178
                       120 brown, gr~ light
                                                  blue
                                                                  52
                                                                       male mascu~
## 7 Beru Wh~
                  165
                        75 brown
                                                  blue
                                                                  47
                                                                       fema~ femin~
                                       light
## 8 R5-D4
                   97
                         32 <NA>
                                                                  NA
                                                                       none mascu~
                                       white, red red
## 9 Biggs D~
                  183
                         84 black
                                                                  24
                                                                       male mascu~
                                       light
                                                  brown
## 10 Obi-Wan~
                  182
                         77 auburn, w~ fair
                                                  blue-gray
                                                                  57
                                                                       male mascu~
## # i 77 more rows
## # i 5 more variables: homeworld <chr>, species <chr>, films <list>,
     vehicles <list>, starships <list>
# filter rows where all columns don't have NA value
starwars %>%
  filter(if_all(.cols = everything(),
               .fns = ~!is.na(.x))
## # A tibble: 29 x 14
##
     name
              height mass hair_color skin_color eye_color birth_year sex
##
      <chr>>
                <int> <dbl> <chr>
                                       <chr>
                                                  <chr>
                                                                <dbl> <chr> <chr>
  1 Luke Sk~
                 172
                         77 blond
                                       fair
                                                  blue
                                                                  19
                                                                       male mascu~
## 2 Darth V~
                 202
                        136 none
                                       white
                                                  yellow
                                                                  41.9 male mascu~
```

```
## 3 Leia Or~
                  150
                         49 brown
                                       light
                                                  brown
                                                                   19
                                                                        fema~ femin~
## 4 Owen La~
                  178
                        120 brown, gr~ light
                                                  blue
                                                                   52
                                                                        male mascu~
## 5 Beru Wh~
                  165
                        75 brown
                                       light
                                                  blue
                                                                   47
                                                                        fema~ femin~
## 6 Biggs D~
                  183
                         84 black
                                                                        male mascu~
                                       light
                                                  brown
                                                                   24
##
   7 Obi-Wan~
                  182
                         77 auburn, w~ fair
                                                  blue-gray
                                                                   57
                                                                        male
                                                                              mascu~
## 8 Anakin ~
                  188
                         84 blond
                                       fair
                                                  blue
                                                                   41.9 male mascu~
## 9 Chewbac~
                        112 brown
                  228
                                       unknown
                                                  blue
                                                                  200
                                                                        male mascu~
## 10 Han Solo
                         80 brown
                                                                        male mascu~
                  180
                                       fair
                                                  brown
                                                                   29
## # i 19 more rows
## # i 5 more variables: homeworld <chr>, species <chr>, films <list>,
       vehicles <list>, starships <list>
# filter rows where column "cty" or "hwy" have values greater than 20
mpg %>%
  filter(if_any(c(cty, hwy),
                ~ . > 20)) # condition written as function
## # A tibble: 145 x 11
##
     manufacturer model
                              displ year
                                            cyl trans drv
                                                               cty
                                                                     hwy fl
                                                                               class
##
      <chr>
                   <chr>
                              <dbl> <int> <int> <chr> <int> <int> <chr> <int> <int> <chr>
##
  1 audi
                                1.8 1999
                                              4 auto~ f
                   a4
                                                                18
                                                                      29 p
                                                                               comp~
                                                                      29 p
                                                                21
##
   2 audi
                                1.8 1999
                                              4 manu~ f
                  a4
                                                                               comp~
   3 audi
                                     2008
##
                  a4
                                2
                                              4 manu~ f
                                                                20
                                                                      31 p
                                                                               comp~
## 4 audi
                  a4
                                2
                                     2008
                                              4 auto~ f
                                                                21
                                                                      30 p
                                                                               comp~
## 5 audi
                  a4
                                2.8 1999
                                              6 auto~ f
                                                                16
                                                                      26 p
                                                                               comp~
## 6 audi
                                2.8 1999
                                              6 manu~ f
                                                                      26 p
                   a4
                                                                18
                                                                               comp~
## 7 audi
                                3.1
                                    2008
                                              6 auto~ f
                                                                18
                                                                      27 p
                   a4
                                                                               comp~
## 8 audi
                                1.8 1999
                                                                      26 p
                                              4 manu~ 4
                                                                18
                                                                               comp~
                   a4 quattro
## 9 audi
                   a4 quattro
                                1.8 1999
                                              4 auto~ 4
                                                                16
                                                                      25 p
                                                                               comp~
## 10 audi
                   a4 quattro
                                2
                                     2008
                                              4 manu~ 4
                                                                20
                                                                      28 p
                                                                               comp~
## # i 135 more rows
# filter rows where column "cty" and "hwy" have values greater than 20
mpg %>%
  filter(if_all(c(cty, hwy),
                \sim . > 20))
## # A tibble: 45 x 11
     manufacturer model displ year
                                        cyl trans
##
                                                      drv
                                                               cty
                                                                     hwy fl
                                                                               class
##
      <chr>
                   <chr> <dbl> <int> <int> <chr>
                                                       <chr> <int> <int> <chr> <chr>
  1 audi
                            1.8 1999
                                          4 manual(m~ f
##
                   a4
                                                                21
                                                                      29 p
                                                                               comp~
## 2 audi
                   a4
                            2
                                 2008
                                          4 auto(av)
                                                      f
                                                                21
                                                                      30 p
                                                                               comp~
                                 2008
                                          4 auto(14)
##
   3 chevrolet
                  malibu
                           2.4
                                                      f
                                                                22
                                                                      30 r
                                                                               mids~
##
  4 honda
                            1.6 1999
                                          4 manual(m~ f
                                                                28
                                                                      33 r
                  civic
                                                                               subc~
                                                                     32 r
##
  5 honda
                  civic
                            1.6 1999
                                          4 auto(14) f
                                                                24
                                                                               subc~
## 6 honda
                            1.6 1999
                                          4 manual(m~ f
                                                                25
                   civic
                                                                      32 r
                                                                               subc~
                                                                      29 p
##
   7 honda
                            1.6 1999
                                          4 manual(m~ f
                                                                23
                   civic
                                                                               subc~
##
  8 honda
                   civic
                            1.6 1999
                                          4 auto(14) f
                                                                24
                                                                      32 r
                                                                               subc~
##
   9 honda
                                 2008
                                          4 manual(m~ f
                                                                26
                                                                      34 r
                            1.8
                                                                               subc~
                   civic
## 10 honda
                   civic
                            1.8 2008
                                          4 auto(15) f
                                                                25
                                                                      36 r
                                                                               subc~
## # i 35 more rows
```