1. hwy가 10 이상인 것들만 추려내시오.

• baseR 방식: > filter(mpg, hwy >= 10)

```
# A tibble: 234 x 11
   manufacturer model
                        displ year
                                        cvl trans drv
                                                            ctv
                                                                  hwv
                 <chr>>
   <chr>>
                         <db7>
                               <int> <int> <chr> <chr> <chr> <int>
                                                                <1nt>
   audi
                                1999
                                          4 auto~ f
                                                             18
                                                                   29
                 a4
   audi
                                1999
                                                                   29
                 a4
                                          4 manu~ f
                                                                   31
   audi
                 a4
                                2008
                                          4 manu~ f
  audi
                                2008
                                          4 auto~ f
                                                                   30
                                1999
                                                                   26
   audi
                 a4
                                          6 auto~ f
                                                                   26
   audi
                                1999
                                          6 manu~ f
                 a4
                                                                   27
   audi
                 a4
                                2008
                                          6 auto~ f
                                                                   26
 8 audi
                 a4 qu~
                           1.8
                                1999
                                          4 manu~ 4
                                                             18
                                                                   25
  audi
                 a4 qu~
                           1.8
                                1999
                                          4 auto~ 4
                                                             16
10 audi
                 a4 qu~
                                2008
                                          4 manu~ 4
                                                             20
                                                                   28
# ... with 224 more rows, and 2 more variables: fl <chr>...
    class <chr>
```

1. hwy가 10 이상인 것들만 추려내시오.

• tidyR 방식:

```
> mpg %>% filter(hwy >= 10)
# A tibble: 234 x 11
   manufacturer model
                                       cvl trans drv
                        displ
                                vear
                                                          ctv
                                                                 hwy
   <chr>>
                 <chr>>
                        <dbl> <int> <int> <chr> <chr> <int> <int> <int>
 1 audi
                 a4
                                1999
                                         4 auto~ f
                                                            18
                                                                  29
 2 audi
                 a4
                          1.8
                                1999
                                         4 manu~ f
                                                                  29
   audi
                                2008
                                                                  31
                 a4
                                         4 manu~ f
 4 audi
                 a4
                                2008
                                         4 auto~ f
                                                                  30
   audi
                          2.8
                                1999
                                                            16
                                                                  26
                 a4
                                         6 auto~ f
   audi
                                1999
                                                            18
                                                                  26
                 a4
                                         6 manu~ f
                                                                  27
   audi
                                2008
                 a4
                                         6 auto~ f
                                                                  26
 8 audi
                 a4 qu~
                          1.8
                                1999
                                         4 manu~ 4
                                                            18
                                                                  25
   audi
                a4 qu~
                          1.8
                                1999
                                         4 auto~ 4
                                                            16
10 audi
                 a4 qu~
                                2008
                                         4 manu~ 4
                                                                  28
  ... with 224 more rows, and 2 more variables: fl <chr>,
```

^{# ...} with 224 more rows, and 2 more variables: fl <chr>

2. year가 2000년 이후인 것만 추려내시오.

• baseR 방식: > mpg %>% filter(year > 2000)

```
Δ tibble: 117 x 11
   manufacturer model
                        displ
                               year
                                       cyl trans drv
                                                         cty
                                                                 hwy
   <chr>>
                 <chr>
                        <dbl> <int> <int> <chr> <chr> <int> <int> <int>
                               2008
                                                           20
                                                                  31
  audi
                 a4
                                         4 manu~ f
  audi
                               2008
                                                                  30
                 a4
                                         4 auto~ f
                                                           18
                                                                  27
   audi
                 a4
                               2008
                                         6 auto~ f
                                                           20
                                                                  28
   audi
                 a4 qu~
                               2008
                                         4 manu~ 4
                                                                  27
   audi
                 a4 qu~
                               2008
                                         4 auto~ 4
 6 audi
                 a4 qu~
                               2008
                                         6 auto~ 4
                                                                  25
                          3.1
                               2008
                                                                  25
  audi
                 a4
                   qu~
                                         6 manu~ 4
                                                                  25
  audi
                 a6 qu~
                        3.1
                               2008
                                         6 auto~ 4
                                                                  23
   audi
                 a6 qu~
                          4.2
                               2008
                                         8 auto~ 4
                                                           16
                          5.3
                                                           14
                                                                  20
10 chevrolet
                 c1500~
                               2008
                                         8 auto~ r
 ... with 107 more rows, and 2 more variables: fl <chr>...
# class <chr>
```

2. year가 2000년 이후인 것만 추려내시오.

• tidyR 방식:

```
> filter(mpg, year > 2000)
# A tibble: 117 x 11
  manufacturer model displ
                                      cvl trans drv
                              vear
                                                        ctv
                                                              hwv
   <chr>>
                <chr>
                       <db1> <int> <int> <chr> <chr> <int>
                                                            <int>
  audi
                a4
                              2008
                                        4 manu~ f
                                                         20
                                                                31
                                                         21
                                                                30
  audi
                a4
                              2008
                                        4 auto~ f
                                                               27
                a4
                              2008
   audi
                                        6 auto~ f
   audi
                a4 qu~
                              2008
                                        4 manu~ 4
                                                         20
                                                               28
   audi
                a4 qu~
                              2008
                                                         19
                                                               27
                                       4 auto~ 4
                                                               25
  audi
                a4 qu~
                              2008
                                       6 auto~ 4
                a4 qu~
                                                         15
                                                               25
   audi
                         3.1
                              2008
                                       6 manu~ 4
                                                         17
                                                               25
 8 audi
                a6 qu~
                         3.1
                              2008
                                       6 auto~ 4
                                                         16
                                                               23
 9 audi
                a6 qu~
                        4.2
                              2008
                                        8 auto~ 4
                         5.3
  chevrolet
                c1500~
                              2008
                                        8 auto~ r
                                                         14
                                                               20
 ... with 107 more rows, and 2 more variables: fl <chr>,
    class <chr>
```

3. cty가 10 미만이고, year가 2000년 미만인 것들만 추려내시오.

• baseR 방식: > filter(mpg, cty < 10 & year < 2000)
A tibble: 0 x 11
... with 11 variables: manufacturer <chr>, model <chr>,
displ <dbl>, year <int>, cyl <int>, trans <chr>, drv <chr>,
cty <int>, hwy <int>, fl <chr>, class <chr>

```
• tidyR 방식: > mpg %>% filter( cty < 10 & year < 2000)
# A tibble: 0 x 11
# ... with 11 variables: manufacturer <chr>, model <chr>,
# displ <dbl>, year <int>, cyl <int>, trans <chr>, drv <chr>,
# cty <int>, hwy <int>, fl <chr>, class <chr>
```

4. displ이 1.8인 경우만 추려내시오.

• baseR 방식: > filter(mpg, displ == 1.8) # A tibble: 14 x 11

```
manufacturer model
                        displ
                                year
                                        cvl trans dry
                                                           cty
                                                                  hwy
   <chr>>
                 <chr>>
                         <dh1> <int>
                                      <int> <chr> <chr> <int>
                                                                <int>
   audi
                 a4
                           1.8
                                1999
                                          4 auto~ f
                                                             18
                                                                   29
   audi
                 a4
                           1.8
                                1999
                                          4 manu~ f
                                                                   29
   audi
                 a4 qu~
                                1999
                                                                   26
                                          4 manu~ 4
                 a4 qu~
                                1999
                                                             16
                                                                   25
   audi
                                          4 auto~ 4
                           1.8
                                2008
                                                             26
                                                                   34
 5 honda
                 civic
                                          4 manu~ f
                                                             25
                                                                   36
 6 honda
                 civic
                                2008
                                            auto~ f
                 civic
                           1.8
                                2008
                                                             24
                                                                   36
   honda
                                          4 auto~ f
                 corol~
                                                             24
                                                                   30
   tovota
                                1999
                                          4 auto~ f
                                                                   33
                 corol~
                           1.8
                                1999
                                                             24
   toyota
                                          4 auto~ f
                                                                   35
10 tovota
                 corol~
                                1999
                                          4 manu~ f
                                                             28
                                                                   37
                 corol~
                           1.8
                                2008
   toyota
                                          4 manu~ f
                                                                   35
                 corol~
                           1.8
                                                             26
   toyota
                                2008
                                          4 auto~ f
   volkswagen
                                                             21
                                                                   29
                 passat
                                1999
                                          4 manu~ f
   volkswagen
                 passat
                           1.8
                                1999
                                          4 auto~ f
                                                             18
                                                                   29
# ... with 2 more variables: fl <chr>.
                                          class <chr>
```

4. displ이 1.8인 경우만 추려내시오.

• tidyR 방식: > mpg %>% filter(displ == 1.8)
A tibble: 14 x 11

```
manufacturer model
                        displ vear
                                       cvl trans drv
                                                           ctv
                                                                 hwv
   <chr>>
                 <chr>>
                        <dbl> <int> <int> <chr> <chr> <int>
                                                               <int>
   audi
                 a4
                          1.8
                               1999
                                          4 auto~ f
                                                                  29
                                                            18
   audi
                               1999
                                                                  29
                 a4
                                         4 manu~ f
                          1.8
                                1999
                                                            18
                                                                  26
   audi
                 a4 qu~
                                          4 manu~ 4
                                                                  25
   audi
                 a4 qu~
                                1999
                                          4 auto~ 4
                                                                  34
 5 honda
                 civic
                          1.8
                                2008
                                                            26
                                          4 manu~ f
                          1.8
                                                                  36
 6 honda
                 civic
                                2008
                                          4 auto~ f
                 civic
                          1.8
                                2008
                                                            24
                                                                  36
   honda
                                          4 auto~ f
                                                                  30
 8 tovota
                 corol~
                                1999
                                          4 auto~ f
                                                            24
                                                                  33
 9 toyota
                 corol~
                                1999
                                          4 auto~ f
                                                                  35
10 toyota
                corol~
                          1.8
                                1999
                                          4 manu~ f
                                                                  37
11 toyota
                corol~
                          1.8
                                2008
                                          4 manu~ f
                                                            28
12 toyota
                corol~
                          1.8
                                2008
                                          4 auto~ f
                                                            26
                                                                  35
   volkswagen passat
                          1.8
                                1999
                                          4 manu~ f
                                                            21
                                                                  29
   volkswagen
                 passat
                          1.8
                                1999
                                          4 auto~ f
                                                            18
                                                                  29
# ... with 2 more variables: fl
                                 <chr>, class <chr>
```

5. displ이 2.0이고 cyl이 6, 8인 경우만 추려내시오.

```
• baseR 방식: > filter(mpg, displ == 2.0 & cyl == c(6, 8))
# A tibble: 0 x 11
# ... with 11 variables: manufacturer <chr>, model <chr>, displ <dbl>, year <int>, cyl <int>, trans <chr>, drv <chr>, ety <int>, hwy <int>, fl <chr>, class <chr>
```

```
• tidyR 방식: 

> mpg %>% filter( displ == 2.0 & cyl == c(6, 8))

# A tibble: 0 x 11

# ... with 11 variables: manufacturer <chr>, model <chr>,
# displ <dbl>, year <int>, cyl <int>, trans <chr>, drv <chr>,
# cty <int>, hwy <int>, fl <chr>, class <chr>
```