sqf_2011

sqf_2011 <-
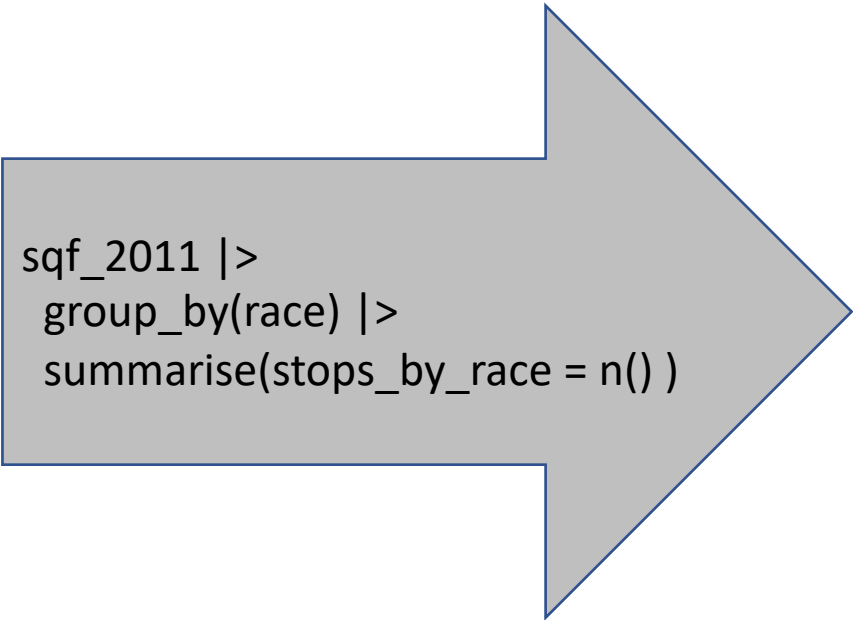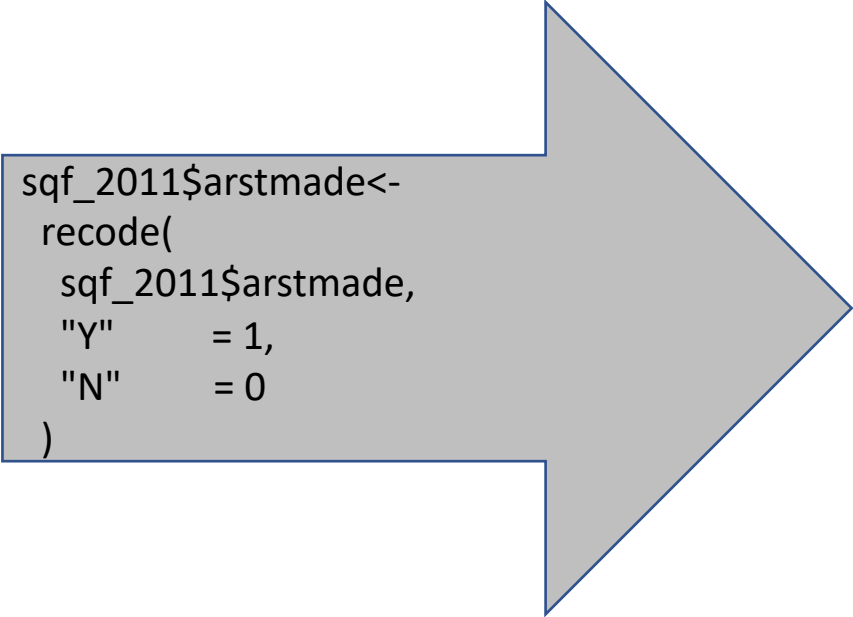sqf_2011 |>
 select(sex, race, arstmade
)
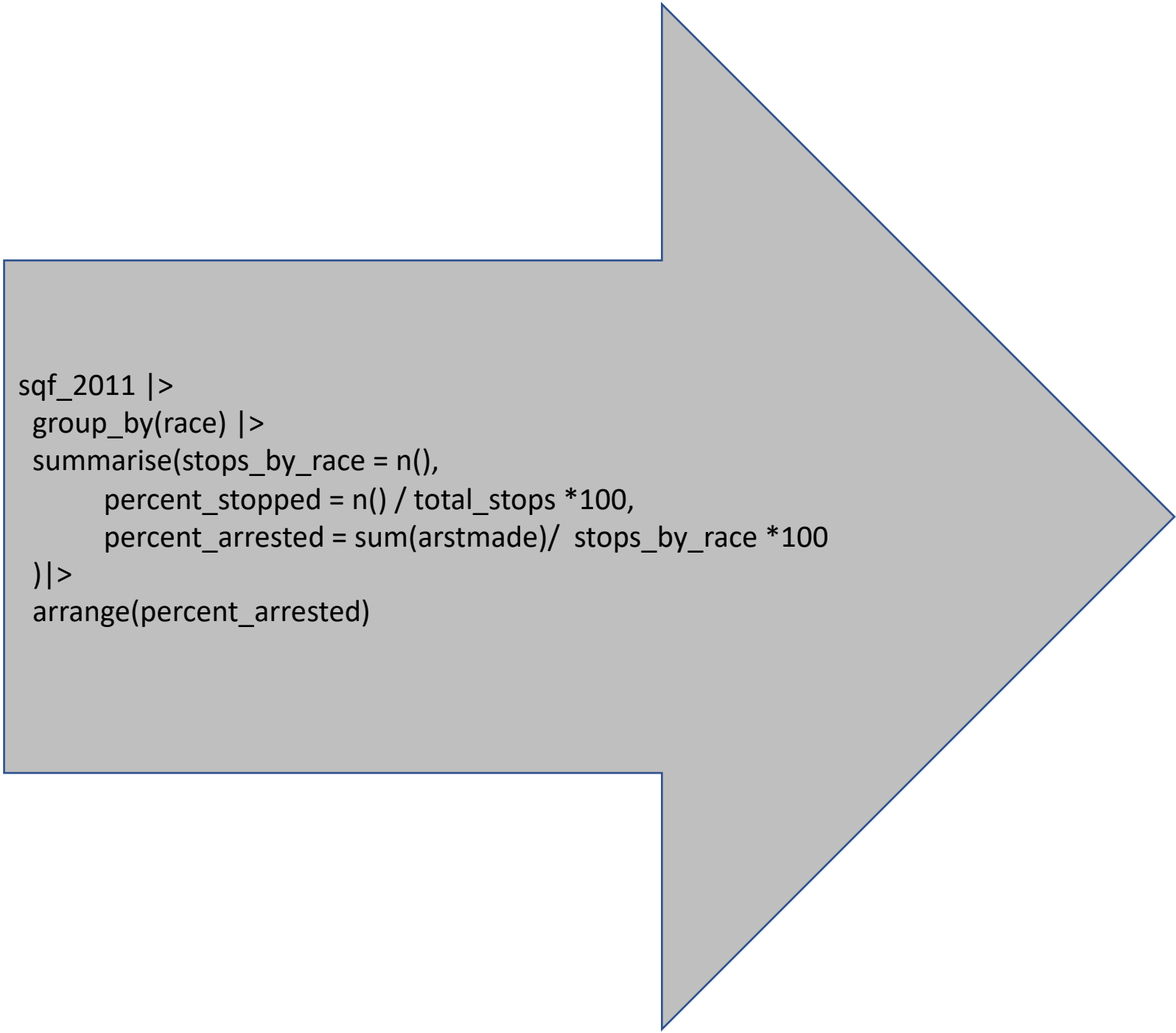
```
sqf_2011$race<-
 recode(
  sqf_2011$race,
  "A" =      "API",
  "B"       = "Black",
  "I"=       "Am Indian",
  "P"=       "Hispanic",
  "Q"=       "Hispanic",
  "W"=       "White",
  "X"=       "Unknown",
  "Z"=       "Other",
  .default = NA_character_
 )
```
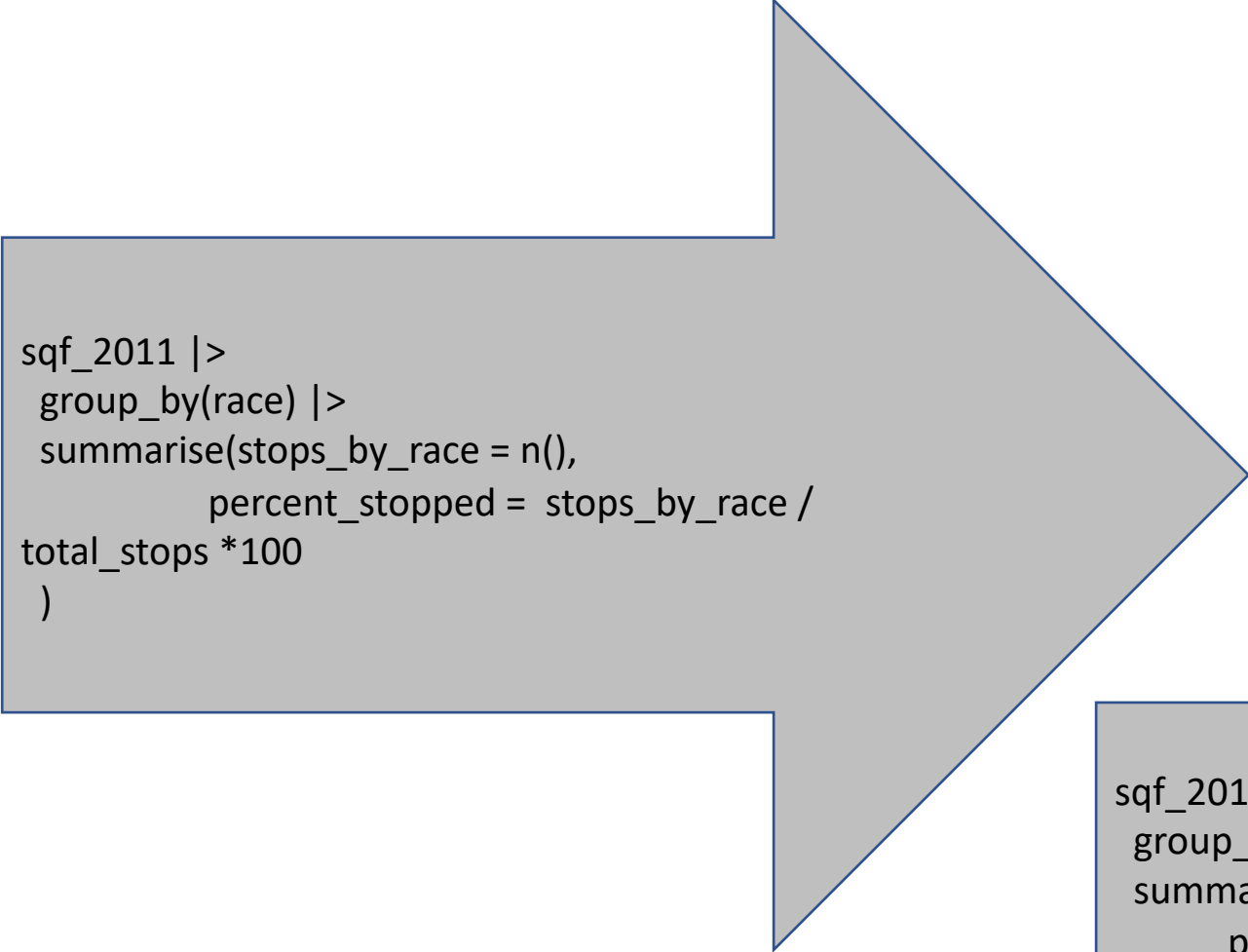
```
sqf_2011 |>
 group_by(race) |>
 summarise(stops_by_race = n() )
```

```
sqf_2011$arstmade<-
 recode(
  sqf_2011$arstmade,
  "Y"      = 1,
  "N"      = 0
 )
```

```
sqf_2011 |>
 group_by(race) |>
 summarise(stops_by_race = n(),
      percent_stopped = n() / total_stops *100,
      percent_arrested = sum(arstmade)/ stops_by_race *100
 )|>
 arrange(percent_arrested)
```

```
sqf_2011 |>
 group_by(race) |>
 summarise(stops_by_race = n(),
           percent_stopped =  stops_by_race /
total_stops *100
  )
```

```
sqf_2011 |>
 group_by(race) |>
 summarise(stops_by_race = n(),
       percent_stopped = stops_by_race/ total_stops *100,
       percent_arrested = sum(arstmade)/ = stops_by_race
*100
  )
```

```
sqf_2011 |>
  group_by(race) |>
  summarise(stops_by_race = n(),
        percent_stopped = stops_by_race / total_stops *100,
        percent_arrested = sum(arstmade)/ stops_by_race ) *100
  )|>
ggplot(aes(x=race,y=percent_stopped)) +
  geom_col(fill="red")+
  theme_minimal()
```

```
sqf_2011 |>
 group_by(race) |>
 summarise(stops_by_race = n(),
        percent_stopped = stops_by_race / total_stops *100,
        percent_arrested = sum(arstmade)/ stops_by_race *100
 )|>
 arrange(percent_arrested) |>
 ggplot()+
 geom_col(aes(x=race,y=percent_arrested),   fill="blue", width = 0.25, position = position_nudge(x=0.15))+
 geom_col(aes(x=race,y=percent_stopped), fill="red", width = 0.25, position = position_nudge(x=-0.15))+
 labs(
      y="",
     title = "Percent Stopped and Percent Arrested",
     subtitle = "NYC SQF 2011 Data",
     caption = "The red bars show percent of people stopped of the total.\n The blue bars show the percent arrested by stop.")+
 theme_minimal()
```