应统二班 22020040149 王振宽

date age gender

1 20201101 25 1

2 20210601 68 2

3 20200801 32 1

4 20221001 36 1

5 20200201 70 2

id date age gender

1 a 20201101 25 1

2 b 20210601 68 2

3 c 20200801 32 1

4 d 20221001 36 1

5 e 20200201 70 2

id date age gender

1 a 20201101 25 1

3 c 20200801 32 1

4 d 20221001 36 1

id date age gender group

1 a 20201101 25 1 young

2 b 20210601 68 2 old

3 c 20200801 32 1 young

4 d 20221001 36 1 young

5 e 20200201 70 2 old

id date age gender

1 a 20201101 25 female

2 b 20210601 68 male

3 c 20200801 32 female

4 d 20221001 36 female

5 e 20200201 70 male

[1] "female" "male" "female" "female" "male"

id date age gender

1 a 2020-11-01 25 1

2 b 2021-06-01 68 2

3 c 2020-08-01 32 1

4 d 2022-10-01 36 1

5 e 2020-02-01 70 2

id date age gender

1 e 2020-02-01 70 2

2 c 2020-08-01 32 1

3 a 2020-11-01 25 1

4 b 2021-06-01 68 2

5 d 2022-10-01 36 1

[1] 28 33 35 36 37 50 56 69 77 79 92 98

[1] 9 7 12 8 3 5 10 2 1 4 11 6

[1] 79

[1] 7

源代码如下：（R+VSCode）

sink("./23.R-Project/output.doc", append = TRUE, split = TRUE)

mytxt <- "

date age gender

20201101 25 1

20210601 68 2

20200801 32 1

20221001 36 1

20200201 70 2

"

date <- c("20201101", "20210601", "20200801", "20221001", "20200201")

age <- c(25, 68, 32, 36, 70)

gender <- c(1, 2, 1, 1, 2)

data\_1 <- data.frame(date, age, gender)

print(data\_1)

id <- c("a", "b", "c", "d", "e")

data\_2 <- data.frame(id, data\_1)

print(data\_2)

data\_3 <- subset(data\_2, age < 65, select <- c("id", "date", "age", "gender"))

print(data\_3)

data\_4 <- data\_2

data\_4$group[data\_2$age < 65] <- "young"

data\_4$group[data\_2$age > 65] <- "old"

print(data\_4)

data\_5 <- data\_2

data\_5$gender[data\_2$gender == 1] <- "female"

data\_5$gender[data\_2$gender == 2] <- "male"

print(data\_5)

print(data\_5$gender)

data\_date <- as.Date(data\_2$date, "%Y%m%d")

data\_2$date <- data\_date

data\_7 <- data.frame(data\_2)

print(data\_7)

sort\_date <- data\_date[order(data\_date)]

sort\_age <- age[order(data\_date)]

sort\_gender <- gender[order(data\_date)]

sort\_id <- id[order(data\_date)]

date <- sort\_date

age <- sort\_age

gender <- sort\_gender

id <- sort\_id

data\_8 <- data.frame(id, date, age, gender)

print(data\_8)

x <- c(77, 56, 98, 69, 35, 37, 79, 33, 28, 36, 92, 50)

print(sort(x))

print(rank(x))

print(x[rank(x) == 10])

a <- x[rank(x) == 10]

print(order(x)[sort(x) == a])

sink()