Data frame Lab:

> cyl<-c(5,7,3)

> disp<-c(150,140,101)

> hp<-c(109,108,99)

> wt<-c(2.52,2.89,2.21)

> mpg<-c(23,25,21.5)

> cars<-data.frame(mpg,cyl,disp,hp,wt)

> cars

mpg cyl disp hp wt

1 23.0 5 150 109 2.52

2 25.0 7 140 108 2.89

3 21.5 3 101 99 2.21

cars[1,2]

[1] 5

> cars[,3]

[1] 150 140 101

> cars[1:2,1]

[1] 23 25

> cars[1:3,"cyl"]

[1] 5 7 3

> cars[1:3,2]

[1] 5 7 3

> cars$mpg

[1] 23.0 25.0 21.5

> cars[2]

cyl

1 5

2 7

3 3

> cars[2:3,"cyl"]

[1] 7 3

> cars[2:3,2]

[1] 7 3

> subset(cars,subset=mpg>24)

mpg cyl disp hp wt

2 25 7 140 108 2.89

> subset(cars,subset=hp>100)

mpg cyl disp hp wt

1 23 5 150 109 2.52

2 25 7 140 108 2.8

> tail(cars)

mpg cyl disp hp wt

1 23.0 5 150 109 2.52

2 25.0 7 140 108 2.89

3 21.5 3 101 99 2.21

>

> head(cars)

mpg cyl disp hp wt

1 23.0 5 150 109 2.52

2 25.0 7 140 108 2.89

3 21.5 3 101 99 2.21

> mtcars

mpg cyl disp hp drat wt qsec vs am gear carb

Mazda RX4 21.0 6 160.0 110 3.90 2.620 16.46 0 1 4 4

Mazda RX4 Wag 21.0 6 160.0 110 3.90 2.875 17.02 0 1 4 4

Datsun 710 22.8 4 108.0 93 3.85 2.320 18.61 1 1 4 1

Hornet 4 Drive 21.4 6 258.0 110 3.08 3.215 19.44 1 0 3 1

Hornet Sportabout 18.7 8 360.0 175 3.15 3.440 17.02 0 0 3 2

Valiant 18.1 6 225.0 105 2.76 3.460 20.22 1 0 3 1

Duster 360 14.3 8 360.0 245 3.21 3.570 15.84 0 0 3 4

Merc 240D 24.4 4 146.7 62 3.69 3.190 20.00 1 0 4 2

Merc 230 22.8 4 140.8 95 3.92 3.150 22.90 1 0 4 2

Merc 280 19.2 6 167.6 123 3.92 3.440 18.30 1 0 4 4

Merc 280C 17.8 6 167.6 123 3.92 3.440 18.90 1 0 4 4

Merc 450SE 16.4 8 275.8 180 3.07 4.070 17.40 0 0 3 3

Merc 450SL 17.3 8 275.8 180 3.07 3.730 17.60 0 0 3 3

Merc 450SLC 15.2 8 275.8 180 3.07 3.780 18.00 0 0 3 3

Cadillac Fleetwood 10.4 8 472.0 205 2.93 5.250 17.98 0 0 3 4

Lincoln Continental 10.4 8 460.0 215 3.00 5.424 17.82 0 0 3 4

Chrysler Imperial 14.7 8 440.0 230 3.23 5.345 17.42 0 0 3 4

Fiat 128 32.4 4 78.7 66 4.08 2.200 19.47 1 1 4 1

Honda Civic 30.4 4 75.7 52 4.93 1.615 18.52 1 1 4 2

Toyota Corolla 33.9 4 71.1 65 4.22 1.835 19.90 1 1 4 1

Toyota Corona 21.5 4 120.1 97 3.70 2.465 20.01 1 0 3 1

Dodge Challenger 15.5 8 318.0 150 2.76 3.520 16.87 0 0 3 2

AMC Javelin 15.2 8 304.0 150 3.15 3.435 17.30 0 0 3 2

Camaro Z28 13.3 8 350.0 245 3.73 3.840 15.41 0 0 3 4

Pontiac Firebird 19.2 8 400.0 175 3.08 3.845 17.05 0 0 3 2

Fiat X1-9 27.3 4 79.0 66 4.08 1.935 18.90 1 1 4 1

Porsche 914-2 26.0 4 120.3 91 4.43 2.140 16.70 0 1 5 2

Lotus Europa 30.4 4 95.1 113 3.77 1.513 16.90 1 1 5 2

Ford Pantera L 15.8 8 351.0 264 4.22 3.170 14.50 0 1 5 4

Ferrari Dino 19.7 6 145.0 175 3.62 2.770 15.50 0 1 5 6

Maserati Bora 15.0 8 301.0 335 3.54 3.570 14.60 0 1 5 8

Volvo 142E 21.4 4 121.0 109 4.11 2.780 18.60 1 1 4 2

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