1. Tables

Tables in SAS

Example SAS syntax to create a table

```
data weight_club;
input IdNumber 1-4 Name $ 6-24 Team $ StartWeight EndWeight;
Loss=StartWeight-EndWeight;
datalines;
1023 David Shaw red 189 165
1049 Amelia Serrano yellow 145 124
1219 Alan Nance red 210 192
1246 Ravi Sinha yellow 194 177
1078 Ashley McKnight red 127 118
;
run;
```

data keyboard is used to define the table name (table names must not contain spaces)

input keyword is used to define the column names.

Loss=StartWeight-EndWeight is used to defined a new colum named Loss derived from StartWeight and EndWeight.

dataline or cards is used to indicate the beginning of the table.

IdNumber 1-4 is used to state that the characters in position 1-4 of each row would fall under the column IdNumber and similarly for Name \$ 6-24. This eliminates the need of delimiters.

The \$ after Name and Team indicates that values of the Name and Team columns are strings.

All command lines end with semicolons;.

Example of SAS syntax to create a table with missing values

```
data weight_club;
input IdNumber 1-4 Name $ 6-24 Team $ StartWeight EndWeight;
```

```
Loss=StartWeight-EndWeight;
cards;
     David Shaw
                       red 189 165
                        . 145 124
1049 Amelia Serrano
1219 Alan Nance
                       red . 192
                       yellow 194 .
1246 Ravi Sinha
1078 Ashley McKnight
                       red 127 118
run;
Classwork 1
data company_data;
input Sr No 1-2 Company $ 4-17 NCI 2021 NCI 2020 NCI 2019 NCI 2018 NCI 2017;
NCI_Avg=(NCI_2021+NCI_2020+NCI_2019+NCI_2018+NCI_2017)/5;
cards;
1 RIL
                74257 -143583 -53949 -59109 -54949
2 ICICI Bank
                -54185.5 -36945.4 -24040.8 -38965.6 7000.3
3 Axis Bank
                -54179.7 -9667.6 -18748.5 -10252.7 -12632.7
4 IOCL
                -22154 -26882.4 -20771.5 -15778.7 -14733.9
5 Tata Steel
                -13008.5 -17634.7 -16350 -12273.4 -3956.4
6 JSW Steel
                -2609 -19092 -11432 -6134 -6284
7 HDFC Life
                 -8995.29 -7782.02 -10185.6 -4422.69 -5106.26
8 ICICI Pru
                -5089.82 -10802.2 -7562.81 -5391.74 -699.01
9 HDFC
                -8499.78 -5854.23 -9951.8 -3586.61 -1397.83
10 Maruti Suzuki -7283.9 -463.9 -3538.3 -8282.1 -1397.83
11 M&M
                 -14563.9 -2576.44 -2549.02 -5109.71 -2856.93
12 Bajaj Finance 424.26 -9632.54 -6637.58 504.94 -3048.24
13 UltraTech -8986.53 -3950.86 -3987.95 1896.74 -2365.12
14 Federal Bank -3900.27 -4664.81 -3371.98 -1576.45 -2383.34
15 Adani Ports -7966.6 -31.35 -2403.12 -550.04 -4181.08
```

run;