



# Building a Matrix

- A matrix is a collection of elements belonging to the same data type, usually integers or real numbers that are arranged in a two dimensional rectangular or square format.
- A matrix can be constructed by executing the following commands:
- First create a vector containing a sequence of 32 integer values:

```
> data<-seq(1:32)
```

- Now, create the matrix that store the vector values in tabular format:

```
table<-matrix(data,nrow = 4,ncol = 8)
```

```
View(table)
```

The screenshot shows the RStudio interface with the 'table' matrix displayed in a data viewer. The menu bar includes File, Edit, Code, View, Plots, Session, Build, Debug, Profile, Tools, and Help. The toolbar has icons for file operations like Open, Save, and Print. The data viewer shows a 4x8 grid of numerical values from 1 to 32, representing the matrix 'table'. The columns are labeled V1 through V8.

	V1	V2	V3	V4	V5	V6	V7	V8
1	1	5	9	13	17	21	25	29
2	2	6	10	14	18	22	26	30
3	3	7	11	15	19	23	27	31
4	4	8	12	16	20	24	28	32