

SHETH LUJ AND SIR MV COLLEGE

2 Creating datasets from raw data (text files, CSV files, Excel sheets) and importing data into SAS/SPSS/R.

The screenshot displays the RStudio interface with the following components:

- Source Editor:** Contains R code for reading a CSV file, creating a data frame, and running a linear model.
- Console:** Shows the execution of the linear model, including the call and coefficients.
- Environment:** Lists the loaded data frame 'fertility_rate' with 188 observations and 62 variables.
- Data Viewer:** Displays a table of the first 12 rows of the data frame.

R Code in Source Editor:

```
1 fertility_rate <- read.csv("/fertility_rate.csv")
2 View(fertility_rate)
3
4 lm(v3 ~ v2, data = fertility_rate)
5
6 attach(fertility_rate)
7
```

Console Output:

```
Error in eval(predvars, data, env) : object 'v' not found

> lm(v3 ~ v2, data = fertility_rate)
Call:
lm(formula = v3 ~ v2, data = fertility_rate)

Coefficients:
(Intercept)          v2
-0.009815      1.000516

>
```

Data Viewer Table:

| V1 | V2 | V3 | V4 | V5 | V6 | V7 | V8 | V9 | V10 | V11 | V12 | V13 | V14 | V15 | V16 | V17 | V18 |
|-----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1 Country | 1960.00 | 1961.00 | 1962.00 | 1963.00 | 1964.00 | 1965.00 | 1966.00 | 1967.00 | 1968.00 | 1969.00 | 1970.00 | 1971.00 | 1972.00 | 1973.00 | 1974.00 | 1975.00 | 1976.00 |
| 2 World | 4.98 | 5.00 | 5.03 | 5.05 | 5.06 | 5.04 | 4.99 | 4.97 | 4.92 | 4.86 | 4.78 | 4.67 | 4.54 | 4.41 | 4.29 | 4.16 | 4.01 |
| 3 Afghanistan | 7.45 | 7.45 | 7.45 | 7.45 | 7.45 | 7.45 | 7.45 | 7.45 | 7.45 | 7.45 | 7.45 | 7.45 | 7.45 | 7.45 | 7.45 | 7.45 | 7.45 |
| 4 Albania | 6.49 | 6.40 | 6.28 | 6.13 | 5.96 | 5.77 | 5.58 | 5.39 | 5.22 | 5.06 | 4.91 | 4.78 | 4.64 | 4.51 | 4.37 | 4.24 | 4.10 |
| 5 Algeria | 7.52 | 7.57 | 7.61 | 7.65 | 7.67 | 7.68 | 7.68 | 7.67 | 7.67 | 7.66 | 7.64 | 7.62 | 7.60 | 7.56 | 7.51 | 7.43 | 7.34 |
| 6 Angola | 6.71 | 6.79 | 6.87 | 6.95 | 7.04 | 7.12 | 7.19 | 7.27 | 7.33 | 7.39 | 7.43 | 7.47 | 7.49 | 7.50 | 7.50 | 7.49 | 7.47 |
| 7 Antigua and Barbuda | 4.43 | 4.39 | 4.34 | 4.30 | 4.25 | 4.19 | 4.13 | 4.04 | 3.94 | 3.82 | 3.68 | 3.52 | 3.33 | 3.12 | 2.91 | 2.70 | 2.48 |
| 8 Arab World | 6.98 | 7.00 | 7.02 | 7.04 | 7.05 | 7.05 | 7.04 | 7.03 | 7.00 | 6.97 | 6.92 | 6.87 | 6.82 | 6.76 | 6.71 | 6.65 | 6.59 |
| 9 Argentina | 3.11 | 3.10 | 3.09 | 3.08 | 3.07 | 3.06 | 3.05 | 3.05 | 3.05 | 3.06 | 3.08 | 3.11 | 3.15 | 3.20 | 3.25 | 3.30 | 3.34 |
| 10 Armenia | 4.79 | 4.67 | 4.52 | 4.35 | 4.15 | 3.95 | 3.76 | 3.58 | 3.43 | 3.30 | 3.20 | 3.11 | 3.04 | 2.96 | 2.88 | 2.79 | 2.70 |
| 11 Aruba | 4.82 | 4.66 | 4.47 | 4.27 | 4.06 | 3.84 | 3.63 | 3.42 | 3.23 | 3.05 | 2.91 | 2.79 | 2.69 | 2.61 | 2.55 | 2.51 | 2.47 |
| 12 Australia | 3.45 | 3.54 | 3.44 | 3.33 | 3.15 | 2.98 | 2.88 | 2.85 | 2.89 | 2.89 | 2.86 | 2.96 | 2.74 | 2.49 | 2.40 | 2.15 | 2.01 |