



SESSION-9: STATA DESCRIPTIVE STATISTICS AND RECAP ALL SESSIONS

Course detail: <http://julhas.com/jsedutech/stata-level-one.html>

Mentor: Julhas Sujan

Recap-Session 1 to 8

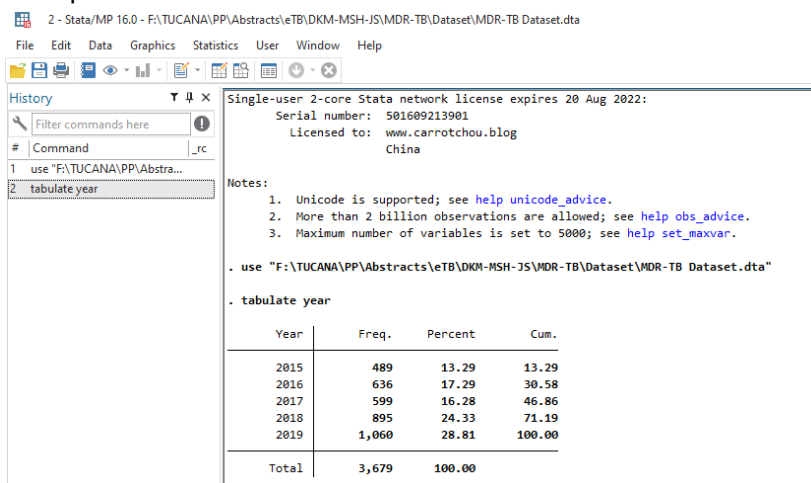
- Stata Installation
- Stata window and command
- Data management-dataset preparation
- Data management-excel data import, variables and operators
- Log and Do file
- Data analysis and visualization – append, merge, variable grouping
- Writing style
- Descriptive statistics – Frequency table preparation

Session-9

- One way table
- Cross table

Short summary:

- **One way table:**
 - **tabulate** produces a one-way table of frequency counts.
 - **tab1** produces a one-way tabulation for each variable specified in varlist.
- **When to use:**
 - When a **table** presents data for **one**, and only **one**, categorical variable, it is called a **one-way table**. A **one-way table** is the tabular equivalent of a bar chart. Like a bar chart, a **one-way table** displays categorical data in the form of frequency counts and/or relative frequencies
- **Quick start:**
 - One-way table of frequencies for v1: **tabulate v1**
 - Sort table in descending order of frequency: **tabulate v1, sort**
 - Generate indicator variables v1 1, v1 2, . . . representing the levels of v1: **tabulate v1, generate(v1_)**
 - Treat missing values like other values of v1: **tabulate v1, missing**
 - Display numeric values of v1 rather than value labels: **tabulate v1, nolabel**
 - Create one-way tables for v1, v2, and v3: **tab1 v1 v2 v3**
- **Stata menu:**
 - **tabulate oneway:** Statistics > Summaries, tables, and tests > Frequency tables > One-way table
 - **tabulate ..., generate():** Data > Create or change data > Other variable-creation commands > Create indicator variables
 - **tab1:** Statistics > Summaries, tables, and tests > Frequency tables > Multiple one-way tables
- **Example:**



```
2 - Stata/MP 16.0 - F:\TUCANA\PP\Abstracts\TB\DKM-MSH-JS\MDR-TB\Dataset\MDR-TB Dataset.dta
File Edit Data Graphics Statistics User Window Help
[Icons]
History Filter commands here
# Command _rc
1 use "F:\TUCANA\PP\Abstra...
2 tabulate year

Single-user 2-core Stata network license expires 20 Aug 2022:
Serial number: 501609213901
Licensed to: www.carrotchou.blog
China

Notes:
1. Unicode is supported; see help unicode_advice.
2. More than 2 billion observations are allowed; see help obs_advice.
3. Maximum number of variables is set to 5000; see help set_maxvar.

. use "F:\TUCANA\PP\Abstracts\TB\DKM-MSH-JS\MDR-TB\Dataset\MDR-TB Dataset.dta"

. tabulate year

+-----+-----+-----+-----+
| Year | Freq. | Percent | Cum. |
+-----+-----+-----+-----+
| 2015 | 489   | 13.29   | 13.29 |
| 2016 | 636   | 17.29   | 30.58 |
| 2017 | 599   | 16.28   | 46.86 |
| 2018 | 895   | 24.33   | 71.19 |
| 2019 | 1,060 | 28.81   | 100.00 |
+-----+-----+-----+-----+
| Total | 3,679 | 100.00  |       |
+-----+-----+-----+-----+
```

Reference: <https://www.stata.com/manuals/rtabulateoneway.pdf>