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log: H:\14.75J\pbset1.log
log type: text
opened on: 25 Sep 2003, 14:12:49

```

```

. use "H:\14.75J\wbdr.dta", clear

.
. /*Question 1*/
. * describe variables in dataset
. describe

```

Contains data from H:\14.75J\wbdr.dta

```

obs:          210
vars:         11                      2 Feb 2000 15:11
size:        16,380 (99.8% of memory free)

```

```

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```

| variable name | storage type | display format | value label | variable label                  |
|---------------|--------------|----------------|-------------|---------------------------------|
| code          | float        | %9.0g          |             | country code (alphabetical)     |
| country       | str34        | %34s           |             | country name                    |
| illit_f       | float        | %9.0g          |             | % illiterate, female aged 15+   |
| illit_m       | float        | %9.0g          |             | % illiterate, male aged 15+     |
| illit_t       | float        | %9.0g          |             | % illiterate, total aged 15+    |
| mort_inf      | float        | %9.0g          |             | infant mortality rate, per 1000 |
| mort_5        | float        | %9.0g          |             | < age 5 mortality rate, per 100 |
| gnppc         | float        | %9.0g          |             | GNP per capita (US\$1995)       |
| gnppcPPP      | float        | %9.0g          |             | GNP per capita (PPP)            |
| mort77        | float        | %9.0g          |             | 1977 infant mort rate, per 1000 |
| gnppc77       | float        | %9.0g          |             | 1977 GNP per capita (US\$1995)  |

```

-----

```

Sorted by:

```

.
. *a)Get summary statistics
. sum gnppc illit_t mort_inf mort_5

```

| Variable | Obs | Mean     | Std. Dev. | Min | Max   |
|----------|-----|----------|-----------|-----|-------|
| gnppc    | 160 | 5340.887 | 9307.99   | 112 | 46448 |
| illit_t  | 138 | 20.94928 | 21.7864   | 0   | 86    |
| mort_inf | 195 | 41.16923 | 38.40462  | 4   | 170   |
| mort_5   | 177 | 62.48588 | 64.37586  | 5   | 286   |

```

.
. *b)Correlation coefficients
. correlate gnppc illit_t mort_inf mort_5
(obs=113)

```

|          | gnppc   | illit_t | mort_inf | mort_5 |
|----------|---------|---------|----------|--------|
| gnppc    | 1.0000  |         |          |        |
| illit_t  | -0.4820 | 1.0000  |          |        |
| mort_inf | -0.5531 | 0.8170  | 1.0000   |        |
| mort_5   | -0.5051 | 0.8043  | 0.9908   | 1.0000 |

```
.
. *c) Male and Female Illiteracy
. compare illit_m illit_f
```

|                 | count | minimum | difference<br>average | maximum |
|-----------------|-------|---------|-----------------------|---------|
| illit_m<illit_f | 98    | -43     | -13.10204             | -1      |
| illit_m=illit_f | 30    |         |                       |         |
| illit_m>illit_f | 10    | 1       | 5                     | 22      |
| jointly defined | 138   | -43     | -8.942029             | 22      |
| jointly missing | 72    |         |                       |         |
| total           | 210   |         |                       |         |

```
. correlate illit_m illit_f
(obs=138)
```

|         | illit_m | illit_f |
|---------|---------|---------|
| illit_m | 1.0000  |         |
| illit_f | 0.9433  | 1.0000  |

```
. sum illit_m illit_f
```

| Variable | Obs | Mean     | Std. Dev. | Min | Max |
|----------|-----|----------|-----------|-----|-----|
| illit_m  | 138 | 16.43478 | 17.89261  | 0   | 78  |
| illit_f  | 138 | 25.37681 | 26.20977  | 0   | 93  |

```
. * d) The richest and poorest countries
```

```
. * i.
```

```
. * First, restrict sample to places we have data on for both 1997 and 1977
. drop if gnppc == .
(50 observations deleted)
```

```
. drop if gnppc77 == .
(49 observations deleted)
```

```
. * Now, pick out the 10 poorest countries
```

```
. * For 1997
```

```
. sort gnppc
```

```
. list country gnppc in 1/10
```

|    | country          | gnppc |
|----|------------------|-------|
| 1. | Congo, Dem. Rep. | 114   |
| 2. | Burundi          | 141   |
| 3. | Sierra Leone     | 150   |

|       |               |     |
|-------|---------------|-----|
| 4.    | Malawi        | 163 |
| 5.    | Niger         | 202 |
| ----- |               |     |
| 6.    | Rwanda        | 207 |
| 7.    | Nepal         | 216 |
| 8.    | Chad          | 218 |
| 9.    | Madagascar    | 229 |
| 10.   | Guinea-Bissau | 232 |

```
. * For 1977
. sort gnppc77

. list country gnppc77 in 1/10
```

|       | country       | gnppc77 |
|-------|---------------|---------|
| 1.    | China         | 129     |
| 2.    | Nepal         | 156     |
| 3.    | Malawi        | 156     |
| 4.    | Burundi       | 180     |
| 5.    | Guinea-Bissau | 187     |
| ----- |               |         |
| 6.    | Bangladesh    | 208     |
| 7.    | Burkina Faso  | 209     |
| 8.    | India         | 214     |
| 9.    | Chad          | 242     |
| 10.   | Rwanda        | 265     |

```
.
. *ii.
. * Now, pick out the 5 richest countries
. * Note the richest countries will be listed in reverse order
. * For 1997
. sort gnppc

. list country gnppc in 107/111
```

|      | country     | gnppc |
|------|-------------|-------|
| 107. | Singapore   | 32486 |
| 108. | Norway      | 35947 |
| 109. | Denmark     | 36418 |
| 110. | Japan       | 43574 |
| 111. | Switzerland | 46448 |

```
. * For 1977
. sort gnppc77

. list country gnppc77 in 107/111
```

|  | country | gnppc77 |
|--|---------|---------|
|--|---------|---------|

| 107. | Sweden        | 20857 |
|------|---------------|-------|
| 108. | United States | 21050 |
| 109. | Japan         | 24845 |
| 110. | Denmark       | 24987 |
| 111. | Switzerland   | 38314 |

```
.
. *iii. The 1997, 1977 correlations
. use "H:\14.75J\wbdr.dta", clear
```

```
. correlate gnppc gnppc77
(obs=111)
```

|         | gnppc  | gnppc77 |
|---------|--------|---------|
| gnppc   | 1.0000 |         |
| gnppc77 | 0.9616 | 1.0000  |

```
. correlate mort_inf mort77
(obs=166)
```

|          | mort_inf | mort77 |
|----------|----------|--------|
| mort_inf | 1.0000   |        |
| mort77   | 0.9102   | 1.0000 |

```
. log close
. log: H:\14.75J\pbset1.log
. log type: text
. closed on: 25 Sep 2003, 14:12:50
```