



User: CocoaPart2(1)Log

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> -----
      name: <unnamed>
      log:  F:\ShaziLapTop\Desktop\STATA 16\STATA 16 MP Full Portable Version\St
> ata16\cocoa2.log
      log type:  text
      opened on:   1 Jan 2000, 00:00:06
```

```
1 .
2 . use "C:\Users\HP\Desktop\coding_challenge\Part 2\A\income.dta"

3 .
4 . use "C:\Users\HP\Desktop\coding_challenge\Part 2\A\farmer_ind.dta"

5 .
6 . *Merging Data

7 .
8 . merge m:1 farmer_id using "C:\Users\HP\Desktop\coding_challenge\Part 2\A\income
> .dta"
```

Result	# of obs.	
not matched	0	
matched	2,800	(_merge==3)

```
9 .
10 . drop _merge

11 .
12 . merge m:1 crop_id using "C:\Users\HP\Desktop\coding_challenge\Part 2\A\mkt_pric
> es.dta", force
```

Result	# of obs.	
not matched	350	
from master	350	(_merge==1)
from using	0	(_merge==2)
matched	2,450	(_merge==3)

```
13 .
14 . drop _merge

15 .
16 . *Checking if growing cocoa is profitable

17 .
18 . bys farmer_id: egen total_acre = sum(plotsize)
```

19 .

20 . describe

Contains data from C:\Users\HP\Desktop\coding_challenge\Part 2\A\farmer_ind.dta

obs: 2,800

vars: 8

29 May 2015 13:40

```

> -----
      storage  display  value
variable name  type   format   label   variable label
-----
> -----
farmer_id      float   %9.0g             Farmer ID
crop_id        float   %9.0g             Crop ID
crop_name      str9    %9s              Crop name
sale_amt       float   %9.0g             Number of units of crop sold
plotsize       float   %9.0g             Size of plot allocated to crop
income         float   %9.0g             Income (by farmer)
mkt_price      float   %9.0g
total_acre     float   %9.0g
-----
> -----
Sorted by: farmer_id
Note: Dataset has changed since last saved.

```

21 .

22 . corr income sale_amt

(obs=2,800)

```

      | income sale_amt
-----+-----
income | 1.0000
sale_amt | 0.2309 1.0000

```

23 .

24 . corr income sale_amt if crop_name == "cocoa"

(obs=350)

```

      | income sale_amt
-----+-----
income | 1.0000
sale_amt | 0.1765 1.0000

```

25 .

26 . pwcorr income sale_amt, star(0.05)sig

```

      | income sale_amt
-----+-----
income | 1.0000
sale_amt | 0.2309* 1.0000
          | 0.0000

```

