```
User: CocoaPart2(1)Log
        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
2 . use "C:\Users\HP\Desktop\coding_challenge\Part 2\A\income.dta"
4 . use "C:\Users\HP\Desktop\coding challenge\Part 2\A\farmer ind.dta"
5.
6 . *Merging Data
8 . merge m:1 farmer id using "C:\Users\HP\Desktop\coding challenge\Part 2\A\income
  > .dta"
      Result
                                     # of obs.
      not 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 \quad (merge==1)
         from using
                                           0 (merge==2)
                                        2,450 (merge==3)
      matched
      _____
13 .
14 . drop _merge
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: 29 May 2015 13:40

variable name	storage type	display format	value label	variable label
farmer_id crop_id crop_name sale_amt plotsize income mkt_price total_acre	float float str9 float float float float	%9.0g %9.0g %9.0g %9.0g %9.0g %9.0g %9.0g		Farmer ID Crop ID Crop name Number of units of crop sold Size of plot allocated to crop Income (by farmer)

Sorted by: farmer_id

Note: Dataset has changed since last saved.

21 .

22 . corr income sale_amt (obs=2,800)

		sale_amt
	1.0000	
sale_amt	0.2309	1.0000

23 .
24 . corr income sale_amt if crop_name == "cocoa"

```
| 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
         0.2309* 1.0000
sale_amt |
          0.0000
```

closed on: 1 Jan 2000, 00:04:51

> -----

```
27 .
28 . pwcorr income sale amt if crop name == "cocoa", star(0.05)sig
             income sale amt
       income | 1.0000
      sale_amt | 0.1765* 1.0000
                  0.0009
29 . mvdecode sale_amt, mv(-99)
      sale_amt: 517 missing values generated
  Contains data from C:\Users\HP\Desktop\coding_challenge\Part 2\A\farmer_ind.dta
    obs: 2,800
                                              29 May 2015 13:40
   storage display value
variable name type format label variable label
  farmer_id float %9.0g crop_id float %9.0g crop_name str9 %9s sale_amt float %9.0g income float %9.0g mkt_price float %9.0g total_acre float %9.0g
                                              Farmer ID
                                              Crop ID
                                              Crop name
                                              Number of units of crop sold
                                              Size of plot allocated to crop
                                              Income (by farmer)
   > ------
  Sorted by: farmer id
       Note: Dataset has changed since last saved.
31 .
32 . gen revenue = mkt_price* sale_amt
  (788 missing values generated)
33 . gen revsquash = income - revenue
  (788 missing values generated)
34 . gen price = revsquash/ sale amt
   (916 missing values generated)
35 . drop revsquash
36 . drop price
37 . log close
        name: <unnamed>
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```
