

# wbesnotes

*Rizwan Mushtaq*

*4/17/2017*

## Notes to the Variables of WBES Pakistan2013

a3a==region of the establishment

a6a== Size a6b== is actual size, should be taken this

b1==legal status of the firm

b4==amongst the owners of firm are there any female

b5==year establishment began **operations**

b6==number of full time employees

b7==How many years of experience working in this sector does the Top Manager have?

b7a==is the top manager a female

### **ICT**

c22a==EMAIL

c22b==WEBSITE

c28==CELLPHONE

c30b==Telecommunications (an obstacle)

SARd24a==local chamber of commerce

### **sales**

d2==In fiscal year 2011/2012, what were this establishment's total annual sales for ALL products and services?

### **Finance**

k6 == Now let's talk about the establishment's current situation. At this time, does this establishment have a checking or savings account?

k7 == At this time, does this establishment have an overdraft facility?

k8 == At this time, does this establishment have a line of credit or a loan from a financial institution?

k3 == Over fiscal year 2011/2012, please estimate the proportion of this establishment's working capital, that is its day-to-day operations, that was financed from each of the following sources? SHOW CARD 25

k30==Access to finance (an obstacle)

### **education**

l9b == What is the percentage of full-time permanent workers who completed secondary school?

l10 == Over fiscal year 2011/2012, did this establishment have formal training programs for its permanent, full-time employees?

## **Categorical data analysis**

Barycentric discriminant analysis (BADIA), Canonical correlation analysis, categorical variables, Chi-square test, Coefficient alpha (Cronbach's alpha), Data mining, Descriptive discriminant analysis, Discriminant analysis, Exploratory data analysis, Exploratory factor analysis, Guttman scaling, Matrix algebra, Principal component analysis, R.

## **Canonical correlation analysis**

Canonical correlation is related the traditional Principle Component method (PCM), which is used to reduce the dimensionality of the data

## **References**

I found a nice article about how to handle missing values...

<https://cran.r-project.org/web/packages/memisc/vignettes/items.html>