Group Assignment :

- first part on HT estimator for domains (3ECTS)

- second part on SAE estimator for unplanned domains (6ECTS)

(+individual interview=9ECTS)

Write a ppt presentation explaining the rationale of the estimators. Please, comment on the results (shortly) and use R

(good luck!)

INPUT DATA – milfood file “Survey on Food Consumption in Happyland

1. estimate using the Horvitz and Thompson estimator i) the total food expenditure ii) the per capita food expenditure at country level
2. estimate using the Horvitz and Thompson estimator i) the total food expenditure ii) the per capita food expenditure at Region level (region=Zone/Stratum)
3. estimate using the Horvitz and Thompson estimator i) the total food expenditure ii) the per capita food expenditure at Domain level (Domain=Stratum\*Education Level; use a recoding of EL: I want you to costruct an indicator variable=1 if the EL is >= 3 and =0 otherwise)
4. estimate using the Horvitz and Thompson estimator i) the number of hhs with children under 6 years old ii) the percentage of the hhs with children under 6 years old at country level
5. estimate using the Horvitz and Thompson estimator i) the number of hhs with children under 6 years old ii) the percentage of the hhs with children under 6 years old at Region level (region=Zone/Stratum)
6. estimate using the Horvitz and Thompson estimator i) the number of hhs with children under 6 years old ii) the percentage of the hhs with children under 6 years old at Domain level (Domain=Stratum\*Education Level; use a recoding of EL: I want you to costruct an indicator variable=1 if the EL is >= 3 and =0 otherwise)