**Exercise 3, 2024. Statistics**

We have the attached database (<https://www.uv.es/mperea/readingskill.sav>) which contains data on reading ability through the PROLEC test in high school students, as well as the average number of words learned incidentally across several classes.

*1. Do you observe differences in reading ability (using the global measure of the test: PROTOTAL) between boys and girls?*

*2. Overall, does the PROLEC test (global measure PROTOTAL) follow approximately a normal distribution? What is the asymmetry? What about kurtosis?*

*3. If we want to select the best 15% of readers for a creative writing course, what cut-off point will we choose?*

*4. If we want to select the worst 10% of readers for a reading ability improvement program, what cut-off point will we choose?*

*5. What is the standard score in PROTOTAL for the person in the first row in the file and what does it mean?*