Repository link:

https://github.com/tang-xin72/hello-world

Discovering Statistics Using R

Task 3: What is the level of measurement of the following variables?

a. The number of downloads of different bands' songs on iTunes. Ratio variable

b. The names of the bands that were downloaded. Nominal variable

c. The position in the iTunes download chart. Ordinal variable

d. The money earned by the bands from the downloads. Ratio variable

e. The weight of drugs bought by the bands with their royalties. Ratio variable

f. The type of drugs bought by the bands with their royalties. Nominal variable

g. The phone numbers that the bands obtained because of their fame. Nominal variable

h. The gender of the people giving the bands their phone numbers. Binary variable

i. The instruments played by the band members. categorical variable

j. The time they had spent learning to play their instruments Ratio variable

Task 4: Say I own 857 CDs. My friend has written a computer program that uses a webcam to scan the shelves in my house where I keep my CDs and measure how many I have. His program says that I have 863 CDs. Define measurement error. What is the measurement error in my friend's CD-counting device?

Answer: *In this example, the measurement error is the difference between the actual CD count and the program reading result. The measurement error in count device is 6.*

Task 5: Sketch the shape of a normal distribution, a positively skewed distribution

and a negatively skewed distribution.

A picture containing text, handwriting, font, paper

Description automatically generated