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| * **WD-1:** I can import data from a variety of formats   + csv   + xlsx   + txt * **WD-2:** I can select necessary columns from a dataset. * **WD-3:** I can filter rows from a dataframe for a variety of data types (e.g., numeric, integer, character, factor, date).   + Numeric   + Character   + Factor   + Date * **WD-4:** I can modify existing variables and create new variables in a dataframe for a variety of data types   + Numeric   + Character   + Factor   + Date * **WD-5:** I can use mutating joins to combine multiple dataframes.   + Inner Join   + Left Join   + Right Join   + Full Join * **WD-6:** I can use filtering joins to filter rows from a dataframe.   + Semi Join   + Anti Join * **WD-7:** I can pivot dataframes from long to wide and visa versa   + Wide to Long   + Long to Wide * **R-1:** I can create professional looking, reproducible analyses using RStudio projects, Quarto documents, and the here package. * **R-2:** I can write well documented and tidy code.   + ggplot2   + dplyr | * **R-3:** I can write robust programs that are resistant to changes in inputs.   + Any context * **DVS-1:** I can create visualizations for a variety of variable types   + 2 Numeric Variables   + 1 Numeric & 1 Categorical   + 2 Categorical   + Timeseries (Dates) * **DVS-2:** I use plot modifications to make my visualization clear to the reader.   + No tilting   + Modify text   + Reorder legend * **DVS-3:** I show creativity in my visualizations   + Non-standard Colors   + Annotations   + Creativity * **DVS-4:** I can calculate numerical summaries of variables.   + summarize()   + across() * **DVS-5:** I can find summaries of variables across multiple groups. * **DVS-6:** I can create tables which make my summaries clear to the reader. * **PE-1:** I can write concise code which does not repeat itself.   + One function call instead of multiple   + across() * **PE-4:** I can use modern tools when carrying out my analysis.   + Not superseded or deprecated   + dplyr pipeline connected to ggplot * **DSM-2:** I can conduct common statistical analyses in R   + Example 1   + Example 2 |
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