METADABA-Template

This is a basic directory structure for developing Quarto based Preparatory Labs for Metropolitan College

Please install the following before running the code:

- 1. Python 3.10 or higher more information Python
- 2. R 4.3.0 or higher more information R
- 3. Quarto 1.6.33 more information Quarto
- 4. Quarto, radian, jupyter, and rpy2 python packages. You can install them by running the following command in your terminal:
- 5. Although not needed for graphing and other advanced features you can also install
 - 1. Node.js more information Node.js
 - 2. Pandoc more information Pandoc
 - 3. LaTeX more information LaTeX
 - 4. Git more information Git
 - 5. RStudio more information RStudio
 - 6. Anaconda more information Anaconda
 - 7. Jupyter more information Jupyter
 - 8. Graphviz more information Graphviz

pip install numpy pandas matplotlib seaborn jupyter quarto radian rpy2

1. quarto, rmarkdown, reticulate, tidyverse, ggplot2, dplyr, readr, readxl, stringr, forcats, lubridate, janitor, skimr, kableExtra, knitr, kableExtra, ggplot2, plotly, ggrepel, ggpubr, ggthemes, ggsci, ggbeeswarm, ggrepel, ggforce, gganimate, ggtext, ggdist, ggpattern, ggpointdensity, gghighlight, ggrepel, ggtext, ggforce, gganimate, ggpattern, ggpointdensity, gghighlight, ggdist, ggsci, ggthemes, ggpubr, ggbeeswarm for R. You can install them by running the following command in your R console:

```
install.packages(c("quarto", "rmarkdown", "reticulate", "tidyverse", "ggplot2",
"dplyr", "readr", "readxl", "stringr", "forcats", "lubridate", "janitor", "skimr",
"kableExtra", "knitr", "kableExtra", "ggplot2", "plotly", "ggrepel", "ggpubr",
"ggthemes", "ggsci", "ggbeeswarm", "ggrepel", "ggforce", "gganimate",
"ggtext", "ggdist", "ggpattern", "ggpointdensity", "gghighlight", "ggrepel",
"ggtext", "ggforce", "gganimate",
"ggpattern", "ggpointdensity", "gghighlight", "ggdist", "ggsci", "ggthemes",
"ggpubr", "ggbeeswarm"))
```

6. With the above packages installed, you can now run the following command in your terminal to install the quarto-webr package. It might require node.js to be installed on your system. Quato web-r - more information Quarto-WebR

```
quarto add coatless/quarto-webr
```

7. Interactive python need to be also added to the quarto environment. You can do this by running the following command in your terminal - pyodide

```
quarto add coatless-quarto/pyodide
```

8. Interactive sql need to be also added to the quarto environment. You can do this by running the following command in your terminal - sql.js

quarto add shafayetShafee/interactive-sql