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Data Analysis with Python

Cheat Sheet: Importing Data Sets

```
Package/Method Description
                                                   Code Example
                                                      1. 1
                                                      1. df = pd.read_csv(<CSV_path>, header = None)
                                                         # load without header
df = pd.read_csv(<CSV_path>, header = 0)
                                                         # load using first row as header
                   Read the CSV file containing a
Read CSV data set
                   data set to a pandas data frame Copied!
                                                   Note: The labs in this course run in JupyterLite environment. In JupyterLite environment, you'll need to
                                                   download the required file to the local environment and then use the local path to the file as the CSV_path.
                                                   However, in case you are using JupyterLabs, or any other Python compiler on your local machine, you can use
                                                   the URL of the required file directly as the CSV_path.
                    Print the first few entries
Print first few

    df.head(n) #n=number of entries; default 5

                    (default 5) of the pandas data
entries
                    frame
                                                   Copied!
                    Print the last few entries
Print last few

    df.tail(n) #n=number of entries; default 5

                    (default 5) of the pandas data
entries
                    frame
                                                    Copied!
                                                      1. 1
Assign header
                    Assign appropriate header
                                                      1. df.columns = headers
                    names to the data frame
names
                                                   Copied!
                   Replace the entries "?" with
Replace "?" with
                                                      1. df = df.replace("?", np.nan)
                    NaN entry from Numpy library
                                                   Copied!
                                                      1. 1
                   Retrieve the data types of the
Retrieve data types data frame columns
                                                      1. df.dtypes
                                                   Copied!
                    Retrieve the statistical
                    description of the data set.
                                                      1. 1
Retrieve statistical Defaults use is for only

    df.describe() #default use df.describe(include="all")

description
                   numerical data types. Use
                    include="all" to create
                                                   Copied!
                    summary for all variables
                                                      1. 1
                    Retrieve the summary of the
Retrieve data set
                                                      1. df.info()
                    data set being used, from the
summary
                    data frame
                                                   Copied!
                    Save the processed data frame
Save data frame to

    df.to_csv(<output CSV path>)

                   to a CSV file with a specified
                    path
                                                    Copied!
```



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