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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
Read CSV data set a data set to a pandas data
                                                Copied!
                   frame
                                                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.
                                                  1. 1
                   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 appropriate header
Assign header
                                                  1. df.columns = headers
                   names to the data frame
names
                                                Copied!
                                                  1. 1
                   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
                                                  1. 1
                   description of the data set.
Retrieve statistical Defaults use is for only

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

                   numerical data types. Use
description
                   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
Save data frame to

    df.to_csv(<output CSV path>)

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



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