Module 2 Assignment - Setting Update Data Lake

By: Paul Thai

In [ ]: ```!pip list - checking to see python packages versions```

```
Package                              Version
------------------------------------ -------------------
alabaster                            0.7.16
annotated-types                      0.6.0
anyio                                4.3.0
appdirs                              1.4.4
archspec                             0.2.2
argon2-cffi                          23.1.0
argon2-cffi-bindings                 21.2.0
arrow                                1.3.0
asgiref                              3.8.1
astroid                              2.15.8
astropy                              6.0.1
astropy-iers-data                    0.2024.4.15.2.45.49
asttokens                            2.4.1
async-lru                            2.0.4
atomicwrites                         1.4.1
attrs                                23.2.0
Authlib                              1.3.0
Automat                              22.10.0
autopep8                             2.0.4
autovizwidget                        0.20.4
awscli                               1.32.84
Babel                                2.14.0
bcrypt                               4.1.2
beautifulsoup4                       4.12.3
binaryornot                          0.4.4
black                                24.4.0
bleach                               6.1.0
blinker                              1.7.0
bokeh                                3.4.1
boltons                              23.1.1
boto3                                1.34.84
botocore                             1.34.84
Brotli                               1.1.0
brotlipy                             0.7.0
cached-property                      1.5.2
certifi                              2024.2.2
cffi                                 1.16.0
chardet                              5.2.0
charset-normalizer                   3.3.2
click                                8.1.7
```

```
cloudpickle                      2.2.1
colorama                         0.4.4
colorcet                         3.1.0
comm                             0.2.2
conda                            23.11.0
conda-content-trust              0.2.0
conda-libmamba-solver            23.12.0
conda-package-handling           2.2.0
conda_package_streaming          0.9.0
constantly                       15.1.0
contextlib2                      21.6.0
contourpy                        1.2.1
cookiecutter                     2.6.0
cryptography                     42.0.5
cycler                           0.12.1
cytoolz                          0.12.3
daal4py                          2024.3.0
dask                             2024.4.1
dask-expr                        1.0.11
debugpy                          1.8.1
decorator                        5.1.1
defusedxml                       0.7.1
diff-match-patch                 20230430
dill                             0.3.8
distributed                      2024.4.1
distro                           1.8.0
Django                           5.0.4
docker                           6.1.3
docstring-to-markdown            0.15
docutils                         0.16
dparse                           0.6.4b0
entrypoints                      0.4
et-xmlfile                       1.1.0
exceptiongroup                   1.2.0
executing                        2.0.1
fastapi                          0.110.1
fastjsonschema                   2.19.1
filelock                         3.13.4
flake8                           7.0.0
Flask                            2.3.3
fonttools                        4.51.0
fqdn                             1.5.1
```

```
fsspec                          2024.3.1
future                          1.0.0
gevent                          23.9.0.post1
gmpy2                           2.1.2
google-pasta                    0.2.0
greenlet                        3.0.3
gssapi                          1.8.3
h11                             0.14.0
h2                              4.1.0
h5py                            3.11.0
hdijupyterutils                 0.20.4
holoviews                       1.18.3
hpack                           4.0.0
httpcore                        1.0.5
httpx                           0.27.0
hyperframe                      6.0.1
hyperlink                       21.0.0
idna                            3.6
imagecodecs                     2024.1.1
imageio                         2.34.0
imagesize                       1.4.1
importlib-metadata              6.11.0
importlib_resources             6.4.0
incremental                     22.10.0
inflection                      0.5.1
iniconfig                       2.0.0
intervaltree                    3.1.0
ipykernel                       6.29.3
ipython                         8.23.0
ipython-genutils                0.2.0
ipywidgets                      7.6.5
isoduration                     20.11.0
isort                           5.13.2
itsdangerous                    2.1.2
jaraco.classes                  3.4.0
jaraco.context                  4.3.0
jaraco.functools                4.0.0
jedi                            0.19.1
jeepney                         0.8.0
jellyfish                       1.0.3
Jinja2                          3.1.3
jmespath                        1.0.1
```

```
joblib                                  1.4.0
json5                                   0.9.25
jsonpatch                               1.33
jsonpointer                             2.4
jsonschema                              4.21.1
jsonschema-specifications               2023.12.1
jupyter                                 1.0.0
jupyter_client                          7.4.9
jupyter-console                         6.6.3
jupyter_core                            5.7.2
jupyter-events                          0.10.0
jupyter-lsp                             2.2.5
jupyter_server                          2.14.0
jupyter_server_terminals                0.5.3
jupyterlab                              4.1.6
jupyterlab_pygments                     0.3.0
jupyterlab_server                       2.26.0
jupyterlab_widgets                      3.0.10
keyring                                 25.1.0
kiwisolver                              1.4.5
krb5                                    0.5.1
lazy-object-proxy                       1.10.0
libmambapy                              1.5.5
lief                                    0.14.1
linkify-it-py                           2.0.3
llvmlite                                0.42.0
locket                                  1.0.0
lxml                                    5.1.0
lz4                                     4.3.3
mamba                                   1.5.5
Markdown                                3.6
markdown-it-py                          3.0.0
MarkupSafe                              2.1.5
marshmallow                             3.21.1
matplotlib                              3.8.4
matplotlib-inline                       0.1.6
mccabe                                  0.7.0
mdit-py-plugins                         0.4.0
mdurl                                   0.1.2
menuinst                                2.0.1
mistune                                 0.8.4
mock                                    5.1.0
```

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more-itertools              10.2.0
mpmath                      1.3.0
msgpack                     1.0.7
multiprocess                0.70.16
munkres                     1.1.4
mypy-extensions             1.0.0
nb_conda_kernels            2.3.1
nbclassic                   1.0.0
nbclient                    0.10.0
nbconvert                   6.5.3
nbformat                    5.10.4
nest-asyncio                1.5.5
nltk                        3.8.1
nose                        1.3.7
notebook                    6.5.6
notebook_shim               0.2.4
numba                       0.59.1
numexpr                     2.9.0
numpy                       1.26.4
numpydoc                    1.7.0
openpyxl                    3.1.2
overrides                   7.7.0
packaging                   23.2
pandas                      2.2.2
pandocfilters               1.5.0
panel                       1.4.1
papermill                   2.5.0
param                       2.1.0
parso                       0.8.4
partd                       1.4.1
pathos                      0.3.2
pathspec                    0.12.1
patsy                       0.5.6
pexpect                     4.9.0
pickleshare                 0.7.5
pillow                      10.3.0
pip                         24.0
pkgutil_resolve_name        1.3.10
platformdirs                4.1.0
plotly                      5.19.0
pluggy                      1.4.0
ply                         3.11
```

```
pox                          0.3.4
ppft                         1.7.6.8
prometheus_client            0.20.0
prompt-toolkit               3.0.42
protobuf                     4.25.3
psutil                       5.9.8
ptyprocess                   0.7.0
pure-eval                    0.2.2
pure-sasl                    0.6.2
pyarrow                      15.0.2
pyarrow-hotfix               0.6
pyasn1                       0.6.0
pyasn1_modules               0.4.0
pycodestyle                  2.11.1
pycosat                      0.6.6
pycparser                    2.21
pydantic                     2.7.0
pydantic_core                2.18.1
pydocstyle                   6.3.0
pyerfa                       2.0.1.4
pyflakes                     3.2.0
pyfunctional                 1.5.0
Pygments                     2.17.2
PyHive                       0.7.0
pylint                       2.17.7
pylint-venv                  3.0.3
pyls-spyder                  0.4.0
pyodbc                       5.1.0
pyOpenSSL                    24.0.0
pyparsing                    3.1.2
PyQt5                        5.15.9
PyQt5-sip                    12.12.2
PyQtWebEngine                5.15.4
PySocks                      1.7.1
pyspnego                     0.9.1
pytest                       8.1.1
python-dateutil              2.9.0
python-json-logger           2.0.7
python-lsp-black             2.0.0
python-lsp-jsonrpc           1.1.2
python-lsp-server            1.10.1
python-slugify               8.0.4
```

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pytoolconfig                               1.2.5
pytz                                       2024.1
pyviz_comms                                3.0.1
pyxdg                                      0.28
PyYAML                                     6.0.1
pyzmq                                      24.0.1
QDarkStyle                                 3.2.3
qstylizer                                  0.2.2
QtAwesome                                  1.2.3
qtconsole                                  5.5.1
QtPy                                       2.4.1
referencing                                0.34.0
regex                                      2023.12.25
requests                                   2.31.0
requests-kerberos                          0.14.0
rfc3339-validator                          0.1.4
rfc3986-validator                          0.1.1
rich                                       13.7.1
rope                                       1.13.0
rpds-py                                    0.18.0
rsa                                        4.7.2
Rtree                                      1.2.0
ruamel.yaml                                0.18.5
ruamel.yaml.clib                           0.2.7
ruamel-yaml-conda                          0.15.80
s3fs                                       0.4.2
s3transfer                                 0.10.1
safety-schemas                             0.0.2
sagemaker                                  2.215.0
sagemaker-data-insights                    0.3.3
sagemaker-datawrangler                     0.4.3
sagemaker-headless-execution-driver        0.0.13
sagemaker-scikit-learn-extension           2.5.0
sagemaker-studio-analytics-extension       0.0.20
sagemaker-studio-sparkmagic-lib            0.1.4
sasl                                       0.3.1
schema                                     0.7.5
scikit-learn                               1.4.2
scipy                                      1.13.0
seaborn                                    0.13.2
SecretStorage                              3.3.3
Send2Trash                                 1.8.3
```

```
service-identity                    21.1.0
setuptools                          69.5.1
shellingham                         1.5.4
sip                                 6.7.12
six                                 1.16.0
smclarify                           0.5
smdebug-rulesconfig                 1.0.1
sniffio                             1.3.1
snowballstemmer                     2.2.0
sortedcontainers                    2.4.0
soupsieve                           2.5
sparkmagic                          0.20.4
Sphinx                              7.2.6
sphinxcontrib-applehelp             1.0.8
sphinxcontrib-devhelp               1.0.6
sphinxcontrib-htmlhelp              2.0.5
sphinxcontrib-jsmath                1.0.1
sphinxcontrib-qthelp                1.0.7
sphinxcontrib-serializinghtml       1.1.10
spyder                              5.5.3
spyder-kernels                      2.5.1
SQLAlchemy                          2.0.29
sqlparse                            0.4.4
stack-data                          0.6.2
starlette                           0.37.2
statsmodels                         0.14.1
sympy                               1.12
tabulate                            0.9.0
tblib                               3.0.0
tenacity                            8.2.3
terminado                           0.18.1
text-unidecode                      1.3
textdistance                        4.5.0
threadpoolctl                       3.4.0
three-merge                         0.1.1
thrift                              0.20.0
thrift-sasl                         0.4.3
tinycss2                            1.2.1
toml                                0.10.2
tomli                               2.0.1
tomlkit                             0.12.4
toolz                               0.12.1
```

```
tornado                         6.4
tqdm                            4.66.1
traitlets                       5.14.2
truststore                      0.8.0
Twisted                         24.3.0
typer                           0.12.3
types-python-dateutil           2.9.0.20240316
typing_extensions               4.11.0
typing-utils                    0.1.0
tzdata                          2024.1
uc-micro-py                     1.0.3
ujson                           5.9.0
unicodedata2                    15.1.0
uri-template                    1.3.0
urllib3                         2.2.1
w3lib                           2.1.2
watchdog                        4.0.0
wcwidth                         0.2.13
webcolors                       1.13
webencodings                    0.5.1
websocket-client                1.7.0
Werkzeug                        2.3.8
whatthepatch                    1.0.5
wheel                           0.43.0
widgetsnbextension              3.5.2
wrapt                           1.16.0
wurlitzer                       3.0.3
xlrd                            2.0.1
xyzservices                     2024.4.0
yapf                            0.40.1
zict                            3.0.0
zipp                            3.17.0
zope.event                      5.0
zope.interface                  6.3
zstandard                       0.22.0
```

Copying Setup from the lab

```
In [ ]:  !pip install --disable-pip-version-check -q pip --upgrade > /dev/null
         !pip install --disable-pip-version-check -q wrapt --upgrade > /dev/null
```

WARNING: Running pip as the 'root' user can result in broken permissions and conflicting behaviour with the system pa
ckage manager. It is recommended to use a virtual environment instead: https://pip.pypa.io/warnings/venv
WARNING: Running pip as the 'root' user can result in broken permissions and conflicting behaviour with the system pa
ckage manager. It is recommended to use a virtual environment instead: https://pip.pypa.io/warnings/venv

In [ ]: `!pip install --disable-pip-version-check -q awscli==1.18.216 boto3==1.16.56 botocore==1.19.56`

ERROR: pip's dependency resolver does not currently take into account all the packages that are installed. This behav
iour is the source of the following dependency conflicts.
sagemaker 2.215.0 requires boto3<2.0,>=1.33.3, but you have boto3 1.16.56 which is incompatible.
sagemaker 2.215.0 requires PyYAML~=6.0, but you have pyyaml 5.3.1 which is incompatible.
sagemaker-studio-analytics-extension 0.0.20 requires boto3<2.0,>=1.26.49, but you have boto3 1.16.56 which is incompa
tible.
sphinx 7.2.6 requires docutils<0.21,>=0.18.1, but you have docutils 0.15.2 which is incompatible.
WARNING: Running pip as the 'root' user can result in broken permissions and conflicting behaviour with the system pa
ckage manager. It is recommended to use a virtual environment instead: https://pip.pypa.io/warnings/venv

In [ ]: `!pip install --disable-pip-version-check -q sagemaker==2.29.0`
`!pip install --disable-pip-version-check -q smdebug==1.0.1`
`!pip install --disable-pip-version-check -q sagemaker-experiments==0.1.26`

WARNING: Running pip as the 'root' user can result in broken permissions and conflicting behaviour with the system pa
ckage manager. It is recommended to use a virtual environment instead: https://pip.pypa.io/warnings/venv
WARNING: Running pip as the 'root' user can result in broken permissions and conflicting behaviour with the system pa
ckage manager. It is recommended to use a virtual environment instead: https://pip.pypa.io/warnings/venv
WARNING: Running pip as the 'root' user can result in broken permissions and conflicting behaviour with the system pa
ckage manager. It is recommended to use a virtual environment instead: https://pip.pypa.io/warnings/venv

In [ ]: `!pip install --disable-pip-version-check -q PyAthena==2.1.0`

WARNING: Running pip as the 'root' user can result in broken permissions and conflicting behaviour with the system pa
ckage manager. It is recommended to use a virtual environment instead: https://pip.pypa.io/warnings/venv

In [ ]: `!pip install --disable-pip-version-check -q awswrangler==2.18.0`

ERROR: pip's dependency resolver does not currently take into account all the packages that are installed. This behaviour is the source of the following dependency conflicts.
awscli 1.18.216 requires botocore==1.19.56, but you have botocore 1.34.109 which is incompatible.
awscli 1.18.216 requires s3transfer<0.4.0,>=0.3.0, but you have s3transfer 0.10.1 which is incompatible.
dask-expr 1.0.11 requires pandas>=2, but you have pandas 1.5.1 which is incompatible.
sagemaker-datawrangler 0.4.3 requires sagemaker-data-insights==0.4.0, but you have sagemaker-data-insights 0.3.3 which is incompatible.
WARNING: Running pip as the 'root' user can result in broken permissions and conflicting behaviour with the system package manager. It is recommended to use a virtual environment instead: https://pip.pypa.io/warnings/venv

In [ ]:
```
!conda install -y zip
```

Retrieving notices: ...working... done
Channels:
 - conda-forge
Platform: linux-64
Collecting package metadata (repodata.json): /

In [ ]:
```
!pip install --disable-pip-version-check -q seaborn==0.10.0
```

WARNING: Running pip as the 'root' user can result in broken permissions and conflicting behaviour with the system package manager. It is recommended to use a virtual environment instead: https://pip.pypa.io/warnings/venv

In [ ]:
```
!pip install --disable-pip-version-check -q matplotlib==3.1.3
```

```
error: subprocess-exited-with-error

× python setup.py bdist_wheel did not run successfully.
│ exit code: 1
╰─> [532 lines of output]
    IMPORTANT WARNING:
        pkg-config is not installed.
        matplotlib may not be able to find some of its dependencies
    =============================================================================
    Edit setup.cfg to change the build options

    BUILDING MATPLOTLIB
      matplotlib: yes [3.1.3]
          python: yes [3.10.6 | packaged by conda-forge | (main, Aug 22 2022,
                      20:36:39) [GCC 10.4.0]]
        platform: yes [linux]

    OPTIONAL SUBPACKAGES
     sample_data: yes [installing]
           tests: no  [skipping due to configuration]

    OPTIONAL BACKEND EXTENSIONS
             agg: yes [installing]
           tkagg: yes [installing; run-time loading from Python Tcl/Tk]
          macosx: no  [Mac OS-X only]

    OPTIONAL PACKAGE DATA
            dlls: no  [skipping due to configuration]

    /opt/conda/lib/python3.10/site-packages/setuptools/__init__.py:81: _DeprecatedInstaller: setuptools.installer a
nd fetch_build_eggs are deprecated.
    !!

            ********************************************************************************
            Requirements should be satisfied by a PEP 517 installer.
            If you are using pip, you can try `pip install --use-pep517`.
            ********************************************************************************

    !!
      dist.fetch_build_eggs(dist.setup_requires)
    /opt/conda/lib/python3.10/site-packages/setuptools/dist.py:678: SetuptoolsDeprecationWarning: The namespace_pac
kages parameter is deprecated.
```

```
           !!

                 ********************************************************************************
                 Please replace its usage with implicit namespaces (PEP 420).

                 See https://setuptools.pypa.io/en/latest/references/keywords.html#keyword-namespace-packages for detail
      s.

                 ********************************************************************************

           !!
             ep.load()(self, ep.name, value)
           running bdist_wheel
           running build
           running build_py
           creating build
           creating build/lib.linux-x86_64-cpython-310
           copying lib/pylab.py -> build/lib.linux-x86_64-cpython-310
           creating build/lib.linux-x86_64-cpython-310/matplotlib
           copying lib/matplotlib/__init__.py -> build/lib.linux-x86_64-cpython-310/matplotlib
           copying lib/matplotlib/_animation_data.py -> build/lib.linux-x86_64-cpython-310/matplotlib
           copying lib/matplotlib/_cm.py -> build/lib.linux-x86_64-cpython-310/matplotlib
           copying lib/matplotlib/_cm_listed.py -> build/lib.linux-x86_64-cpython-310/matplotlib
           copying lib/matplotlib/_color_data.py -> build/lib.linux-x86_64-cpython-310/matplotlib
           copying lib/matplotlib/_constrained_layout.py -> build/lib.linux-x86_64-cpython-310/matplotlib
           copying lib/matplotlib/_layoutbox.py -> build/lib.linux-x86_64-cpython-310/matplotlib
           copying lib/matplotlib/_mathtext_data.py -> build/lib.linux-x86_64-cpython-310/matplotlib
           copying lib/matplotlib/_pylab_helpers.py -> build/lib.linux-x86_64-cpython-310/matplotlib
           copying lib/matplotlib/_version.py -> build/lib.linux-x86_64-cpython-310/matplotlib
           copying lib/matplotlib/afm.py -> build/lib.linux-x86_64-cpython-310/matplotlib
           copying lib/matplotlib/animation.py -> build/lib.linux-x86_64-cpython-310/matplotlib
           copying lib/matplotlib/artist.py -> build/lib.linux-x86_64-cpython-310/matplotlib
           copying lib/matplotlib/axis.py -> build/lib.linux-x86_64-cpython-310/matplotlib
           copying lib/matplotlib/backend_bases.py -> build/lib.linux-x86_64-cpython-310/matplotlib
           copying lib/matplotlib/backend_managers.py -> build/lib.linux-x86_64-cpython-310/matplotlib
           copying lib/matplotlib/backend_tools.py -> build/lib.linux-x86_64-cpython-310/matplotlib
           copying lib/matplotlib/bezier.py -> build/lib.linux-x86_64-cpython-310/matplotlib
           copying lib/matplotlib/blocking_input.py -> build/lib.linux-x86_64-cpython-310/matplotlib
           copying lib/matplotlib/category.py -> build/lib.linux-x86_64-cpython-310/matplotlib
           copying lib/matplotlib/cm.py -> build/lib.linux-x86_64-cpython-310/matplotlib
           copying lib/matplotlib/collections.py -> build/lib.linux-x86_64-cpython-310/matplotlib
           copying lib/matplotlib/colorbar.py -> build/lib.linux-x86_64-cpython-310/matplotlib
           copying lib/matplotlib/colors.py -> build/lib.linux-x86_64-cpython-310/matplotlib
```

```
copying lib/matplotlib/container.py -> build/lib.linux-x86_64-cpython-310/matplotlib
copying lib/matplotlib/contour.py -> build/lib.linux-x86_64-cpython-310/matplotlib
copying lib/matplotlib/dates.py -> build/lib.linux-x86_64-cpython-310/matplotlib
copying lib/matplotlib/docstring.py -> build/lib.linux-x86_64-cpython-310/matplotlib
copying lib/matplotlib/dviread.py -> build/lib.linux-x86_64-cpython-310/matplotlib
copying lib/matplotlib/figure.py -> build/lib.linux-x86_64-cpython-310/matplotlib
copying lib/matplotlib/font_manager.py -> build/lib.linux-x86_64-cpython-310/matplotlib
copying lib/matplotlib/fontconfig_pattern.py -> build/lib.linux-x86_64-cpython-310/matplotlib
copying lib/matplotlib/gridspec.py -> build/lib.linux-x86_64-cpython-310/matplotlib
copying lib/matplotlib/hatch.py -> build/lib.linux-x86_64-cpython-310/matplotlib
copying lib/matplotlib/image.py -> build/lib.linux-x86_64-cpython-310/matplotlib
copying lib/matplotlib/legend.py -> build/lib.linux-x86_64-cpython-310/matplotlib
copying lib/matplotlib/legend_handler.py -> build/lib.linux-x86_64-cpython-310/matplotlib
copying lib/matplotlib/lines.py -> build/lib.linux-x86_64-cpython-310/matplotlib
copying lib/matplotlib/markers.py -> build/lib.linux-x86_64-cpython-310/matplotlib
copying lib/matplotlib/mathtext.py -> build/lib.linux-x86_64-cpython-310/matplotlib
copying lib/matplotlib/mlab.py -> build/lib.linux-x86_64-cpython-310/matplotlib
copying lib/matplotlib/offsetbox.py -> build/lib.linux-x86_64-cpython-310/matplotlib
copying lib/matplotlib/patches.py -> build/lib.linux-x86_64-cpython-310/matplotlib
copying lib/matplotlib/path.py -> build/lib.linux-x86_64-cpython-310/matplotlib
copying lib/matplotlib/patheffects.py -> build/lib.linux-x86_64-cpython-310/matplotlib
copying lib/matplotlib/pylab.py -> build/lib.linux-x86_64-cpython-310/matplotlib
copying lib/matplotlib/pyplot.py -> build/lib.linux-x86_64-cpython-310/matplotlib
copying lib/matplotlib/quiver.py -> build/lib.linux-x86_64-cpython-310/matplotlib
copying lib/matplotlib/rcsetup.py -> build/lib.linux-x86_64-cpython-310/matplotlib
copying lib/matplotlib/sankey.py -> build/lib.linux-x86_64-cpython-310/matplotlib
copying lib/matplotlib/scale.py -> build/lib.linux-x86_64-cpython-310/matplotlib
copying lib/matplotlib/spines.py -> build/lib.linux-x86_64-cpython-310/matplotlib
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copying lib/matplotlib/textpath.py -> build/lib.linux-x86_64-cpython-310/matplotlib
copying lib/matplotlib/ticker.py -> build/lib.linux-x86_64-cpython-310/matplotlib
copying lib/matplotlib/tight_bbox.py -> build/lib.linux-x86_64-cpython-310/matplotlib
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copying lib/matplotlib/transforms.py -> build/lib.linux-x86_64-cpython-310/matplotlib
copying lib/matplotlib/type1font.py -> build/lib.linux-x86_64-cpython-310/matplotlib
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copying lib/matplotlib/widgets.py -> build/lib.linux-x86_64-cpython-310/matplotlib
creating build/lib.linux-x86_64-cpython-310/mpl_toolkits
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copying lib/mpl_toolkits/__init__.py -> build/lib.linux-x86_64-cpython-310/mpl_toolkits
creating build/lib.linux-x86_64-cpython-310/matplotlib/axes
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copying lib/matplotlib/axes/_axes.py -> build/lib.linux-x86_64-cpython-310/matplotlib/axes
copying lib/matplotlib/axes/_base.py -> build/lib.linux-x86_64-cpython-310/matplotlib/axes
copying lib/matplotlib/axes/_secondary_axes.py -> build/lib.linux-x86_64-cpython-310/matplotlib/axes
copying lib/matplotlib/axes/_subplots.py -> build/lib.linux-x86_64-cpython-310/matplotlib/axes
creating build/lib.linux-x86_64-cpython-310/matplotlib/backends
copying lib/matplotlib/backends/__init__.py -> build/lib.linux-x86_64-cpython-310/matplotlib/backends
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copying lib/matplotlib/backends/_backend_tk.py -> build/lib.linux-x86_64-cpython-310/matplotlib/backends
copying lib/matplotlib/backends/backend_agg.py -> build/lib.linux-x86_64-cpython-310/matplotlib/backends
copying lib/matplotlib/backends/backend_cairo.py -> build/lib.linux-x86_64-cpython-310/matplotlib/backends
copying lib/matplotlib/backends/backend_gtk3.py -> build/lib.linux-x86_64-cpython-310/matplotlib/backends
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copying lib/matplotlib/backends/backend_gtk3cairo.py -> build/lib.linux-x86_64-cpython-310/matplotlib/backends
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copying lib/matplotlib/backends/backend_pdf.py -> build/lib.linux-x86_64-cpython-310/matplotlib/backends
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copying lib/matplotlib/backends/backend_qt4cairo.py -> build/lib.linux-x86_64-cpython-310/matplotlib/backends
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copying lib/matplotlib/backends/wx_compat.py -> build/lib.linux-x86_64-cpython-310/matplotlib/backends
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creating build/lib.linux-x86_64-cpython-310/matplotlib/compat
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creating build/lib.linux-x86_64-cpython-310/matplotlib/testing
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copying lib/matplotlib/tri/trirefine.py -> build/lib.linux-x86_64-cpython-310/matplotlib/tri
copying lib/matplotlib/tri/tritools.py -> build/lib.linux-x86_64-cpython-310/matplotlib/tri
creating build/lib.linux-x86_64-cpython-310/matplotlib/backends/qt_editor
copying lib/matplotlib/backends/qt_editor/__init__.py -> build/lib.linux-x86_64-cpython-310/matplotlib/backends/qt_editor
copying lib/matplotlib/backends/qt_editor/_formlayout.py -> build/lib.linux-x86_64-cpython-310/matplotlib/backends/qt_editor
copying lib/matplotlib/backends/qt_editor/figureoptions.py -> build/lib.linux-x86_64-cpython-310/matplotlib/backends/qt_editor
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ng/jpl_units
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l_units
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grid
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        copying lib/mpl_toolkits/axes_grid/colorbar.py -> build/lib.linux-x86_64-cpython-310/mpl_toolkits/axes_grid
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s/axes_grid
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fonts/afm
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s
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s/web_backend/js
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ib/mpl-data/fonts/ttf
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b/mpl-data/stylelib
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a/fonts/ttf
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mpl-data/images
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fonts/afm
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nux-x86_64-cpython-310/matplotlib/backends/web_backend/jquery-ui-1.12.1/images
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        copying lib/matplotlib/mpl-data/images/subplots.pdf -> build/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/i
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pl-data/fonts/ttf
        copying lib/matplotlib/mpl-data/sample_data/goog.npz -> build/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/
sample_data
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        copying lib/matplotlib/mpl-data/images/help_large.ppm -> build/lib.linux-x86_64-cpython-310/matplotlib/mpl-dat
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```

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        copying lib/matplotlib/mpl-data/sample_data/membrane.dat -> build/lib.linux-x86_64-cpython-310/matplotlib/mpl-d
ata/sample_data
        copying lib/matplotlib/backends/web_backend/jquery-ui-1.12.1/images/ui-icons_777777_256x240.png -> build/lib.li
```

```
nux-x86_64-cpython-310/matplotlib/backends/web_backend/jquery-ui-1.12.1/images
      UPDATING build/lib.linux-x86_64-cpython-310/matplotlib/_version.py
      set build/lib.linux-x86_64-cpython-310/matplotlib/_version.py to '3.1.3'
      running build_ext
      building 'matplotlib.ft2font' extension
      creating build/temp.linux-x86_64-cpython-310
      creating build/temp.linux-x86_64-cpython-310/src
      gcc -pthread -B /opt/conda/compiler_compat -Wno-unused-result -Wsign-compare -DNDEBUG -fwrapv -O2 -Wall -fPIC -
O2 -isystem /opt/conda/include -fPIC -O2 -isystem /opt/conda/include -fPIC -DFREETYPE_BUILD_TYPE=system -DPY_ARRAY_UN
IQUE_SYMBOL=MPL_matplotlib_ft2font_ARRAY_API -DNPY_NO_DEPRECATED_API=NPY_1_7_API_VERSION -D__STDC_FORMAT_MACROS=1 -Ie
xtern/agg24-svn/include -I/opt/conda/lib/python3.10/site-packages/numpy/core/include -I/opt/conda/include/python3.10
-c src/checkdep_freetype2.c -o build/temp.linux-x86_64-cpython-310/src/checkdep_freetype2.o -I/opt/conda/include/free
type2
      src/checkdep_freetype2.c:7:9: note: '#pragma message: Compiling with FreeType version 2.12.1.'
         7 | #pragma message("Compiling with FreeType version " \
           |         ^~~~~~~
      gcc -pthread -B /opt/conda/compiler_compat -Wno-unused-result -Wsign-compare -DNDEBUG -fwrapv -O2 -Wall -fPIC -
O2 -isystem /opt/conda/include -fPIC -O2 -isystem /opt/conda/include -fPIC -DFREETYPE_BUILD_TYPE=system -DPY_ARRAY_UN
IQUE_SYMBOL=MPL_matplotlib_ft2font_ARRAY_API -DNPY_NO_DEPRECATED_API=NPY_1_7_API_VERSION -D__STDC_FORMAT_MACROS=1 -Ie
xtern/agg24-svn/include -I/opt/conda/lib/python3.10/site-packages/numpy/core/include -I/opt/conda/include/python3.10
-c src/ft2font.cpp -o build/temp.linux-x86_64-cpython-310/src/ft2font.o -I/opt/conda/include/freetype2
      gcc: fatal error: cannot execute 'cc1plus': execvp: No such file or directory
      compilation terminated.
      error: command '/usr/bin/gcc' failed with exit code 1
      [end of output]

  note: This error originates from a subprocess, and is likely not a problem with pip.
  ERROR: Failed building wheel for matplotlib
ERROR: Could not build wheels for matplotlib, which is required to install pyproject.toml-based projects
```

```
In [ ]:  !pip install protobuf==3.20.*
```

```
Collecting protobuf==3.20.*
  Using cached protobuf-3.20.3-cp310-cp310-manylinux_2_12_x86_64.manylinux2010_x86_64.whl.metadata (679 bytes)
Using cached protobuf-3.20.3-cp310-cp310-manylinux_2_12_x86_64.manylinux2010_x86_64.whl (1.1 MB)
Installing collected packages: protobuf
  Attempting uninstall: protobuf
    Found existing installation: protobuf 4.25.3
    Uninstalling protobuf-4.25.3:
      Successfully uninstalled protobuf-4.25.3
Successfully installed protobuf-3.20.3
WARNING: Running pip as the 'root' user can result in broken permissions and conflicting behaviour with the system pa
ckage manager. It is recommended to use a virtual environment instead: https://pip.pypa.io/warnings/venv
```

In [ ]:
```python
setup_dependencies_mod2_passed = True
```

In [ ]:
```python
%store setup_dependencies_mod2_passed
```

```
Stored 'setup_dependencies_mod2_passed' (bool)
```

In [ ]:

Setting up S3 Bucket

In [ ]:
```python
import boto3
import sagemaker

session = boto3.session.Session()
region = session.region_name
sagemaker_session = sagemaker.Session()
bucket = sagemaker_session.default_bucket()

s3 = boto3.Session().client(service_name="s3", region_name=region)
```

In [ ]:
```python
setup_s3_bucket_passed = False
```

In [ ]:
```python
print("Default bucket: {}".format(bucket))
```

```
Default bucket: sagemaker-us-east-1-004608622582
```

Verify S3 Bucket Creation

```
In [ ]:  from botocore.client import ClientError

         response = None

         try:
             response = s3.head_bucket(Bucket=bucket)
             print(response)
             setup_s3_bucket_passed = True
         except ClientError as e:
             print("[ERROR] Cannot find bucket {} in {} due to {}.".format(bucket, response, e))
```

{'ResponseMetadata': {'RequestId': 'VN71QDDXC7VQTJKM', 'HostId': 'K59zidxiLzYVCEbOnrrV0GHI4iI9/deQ5T0opIPRmQwKgkHezmb XwT9YBLVBCO7nLzMpMx85ZhM=', 'HTTPStatusCode': 200, 'HTTPHeaders': {'x-amz-id-2': 'K59zidxiLzYVCEbOnrrV0GHI4iI9/deQ5T0 opIPRmQwKgkHezmbXwT9YBLVBCO7nLzMpMx85ZhM=', 'x-amz-request-id': 'VN71QDDXC7VQTJKM', 'date': 'Tue, 21 May 2024 04:53:1 5 GMT', 'x-amz-bucket-region': 'us-east-1', 'x-amz-access-point-alias': 'false', 'content-type': 'application/xml', 'server': 'AmazonS3'}, 'RetryAttempts': 0}, 'BucketRegion': 'us-east-1', 'AccessPointAlias': False}

```
In [ ]:  # Store status
         %store setup_s3_bucket_passed
```

Stored 'setup_s3_bucket_passed' (bool)

```
In [ ]:  %store
```

```
Stored variables and their in-db values:
data_path                                    -> '/root/AAI-540/Module2/csv'
ingest_create_athena_db_mod2_passed          -> True
ingest_create_athena_table_csv_passed        -> True
s3_private_path_csv                          -> 's3://sagemaker-us-east-1-004608622582/module2_dat
setup_dependencies_mod2_passed               -> True
setup_s3_bucket_passed                       -> True
```

```
In [ ]:  %%html

         <p><b>Shutting down your kernel for this notebook to release resources.</b></p>
         <button class="sm-command-button" data-commandlinker-command="kernelmenu:shutdown" style="display:none;">Shutdown Ke

         <script>
         try {
             els = document.getElementsByClassName("sm-command-button");
             els[0].click();
         }
```

```
catch(err) {
    // NoOp
}
</script>
```

Shutting down your kernel for this notebook to release resources.