Setup the Athena Database

```
In [ ]: import boto3
      import sagemaker
      sess = sagemaker.Session()
      bucket = sess.default_bucket()
      role = sagemaker.get_execution_role()
      region = boto3.Session().region_name
In [ ]: # create bool statements to hold inside store
      ingest_create_athena_db_passed = False
In [ ]: | %store -r data_path
In [ ]: try:
         data_path
      except NameError:
         print("******
         print("[ERROR] PLEASE RE-RUN THE PREVIOUS COPY TSV TO S3 NOTEBOOK *****
         In [ ]: print(data_path)
     /root/AAI-540/Module2/csv
In [ ]: %store -r s3_private_path_csv
In [ ]: try:
         s3_private_path_csv
      except NameError:
         print("[ERROR] PLEASE RE-RUN THE PREVIOUS COPY TSV TO S3 NOTEBOOK ****
         In [ ]: print(s3_private_path_csv)
     s3://sagemaker-us-east-1-004608622582/module2_data/csv
```

Import PyAthena

```
In [ ]: from pyathena import connect
In [ ]: database_name = "mod2_db"
In [ ]: # Set S3 staging directory -- this is a temporary directory used for Athena queries
        s3_staging_dir = "s3://{0}/athena/staging".format(bucket)
```

Verify that the databases are created successfully

```
In [ ]: statement = "SHOW DATABASES"
        df_show = pd.read_sql(statement, conn)
        df_show.head(5)
       /tmp/ipykernel_1819/3999478089.py:3: UserWarning: pandas only supports SQLAlchemy co
       nnectable (engine/connection) or database string URI or sqlite3 DBAPI2 connection. O
       ther DBAPI2 objects are not tested. Please consider using SQLAlchemy.
         df_show = pd.read_sql(statement, conn)
Out[ ]:
           database name
        0
                   default
                   dsoaws
        2
                 mod2 db
In [ ]: if database_name in df_show.values:
            ingest_create_athena_db_mod2_passed = True
```

Store variables and release notebook

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

Shutting down your kernel for this notebook to release resources.

```
In [ ]:
```