Natel Whitaker SER 401 Task #61

Setup

pip install sqlalchemy

Connecting to SQLite Database

from sqlalchemy import create_engine engine = create_engine('sqlite:///college.db', echo = True)

Engine Methods

connect()

Returns connection object

execute()

Executes a SQL statement construct

begin()

Returns a context manager delivering a Connection with a Transaction established. Upon successful operation, the Transaction is committed, else it is rolled back

dispose()

Disposes of the connection pool used by the Engine

driver()

Driver name of the Dialect in use by the Engine

table_names()

Returns a list of all table names available in the database

transaction()

Executes the given function within a transaction boundary

Creating Tables

```
from sqlalchemy import create_engine, MetaData, Table, Column, Integer, String engine = create_engine('sqlite:///college.db', echo = True)
meta = MetaData()

students = Table(
    'students', meta,
    Column('id', Integer, primary_key = True),
    Column('name', String),
    Column('lastname', String),
)
meta.create_all(engine)

insert
ins = students.insert()
'INSERT INTO students (id, name, lastname) VALUES (:id, :name, :lastname)'

Select
s = students.select()
result = conn.execute(s)
```