SSD Lab 10

SQLAlchemy

What is SQLAlchemy?

- Object Relational Mapper (ORM)

- Translates user defined classes to tables in RDB

- Converts function calls to SQL statements

CRUD Operations

- CREATE: db.session.add(model obj)

- DELETE: db.session.delete(model obj)

- READ: model.query.all()

Note - do not forget to commit after a crud operation, db.session.commit()

Querying the DB

Let say the user defined class is User.

records = User.query.all() : Equivalent to select * from User

This will return a collection of user records.

To get the id of the first record, records[0].id

Querying the DB

User.query.filter_by(id = '123') : Equivalent to select * from User where id = '123'

To get the first record, use the first() method.

User.query.filter_by(id = '123').first()

If the id is primary key, use the get() method

user = User.query.get('123')