SQL Day 1

PostgreSQL

CRUD the REST way

Protocol? HTTP/HTTPS

- CREATE => POST

- READ => GET

- UPDATE => PUT

- DELETE => DELETE

CRUD the SQL way

Protocol?   TCP

- CREATE => INSERT
- READ => SELECT
- UPDATE => UPDATE
- DELETE => DELETE

DATA TYPES

- NULL

  - Not the same as an empty string

- NUMERIC

  - INTEGER - round number

  - DECIMAL - unlimited decimal places

  - FLOAT -15 decimals

  - SERIAL - auto-incrementing, usually used with primary keys

- CHARACTERS

  - TEXT unlimited

  - VARCHAR(n) - limited characters

SQL statements

- **AKA Query**

- **Ends with semicolon**

- **Cannot have trailing commas**

- **Single quotes for string, double quotes will make postgres think you're referring to a column name and will throw an error**

- **Common to put syntax in all caps but not necessary, just be consistent**

First Normal form

- Eliminate repeating groups in individual tables.

- Create a separate table for each set of related data.

- Identify each set of related data with a primary key.