CMPS 3680 Homework 6

Spring 2024

Intro to SQL
- SQL Introduction
- RDBMS & Relational Data
- Syntax
- Data types
- Constraints

Tables
- Creating tables
- Dropping tables
- Altering existing tables
- Primary Keys
- Foreign Keys
- Auto Increment

Using Timestamps
In most cases, I recommend including createdAt and updatedAt columns in all of your tables like this:

```
CREATE TABLE example (  
    <... other fields ...>  
    createdAt datetime DEFAULT NOW(),  
    updatedAt datetime ON UPDATE NOW()  
);  
```

Standard Queries
- Adding records: INSERT
- Retrieving records: SELECT | SELECT DISTINCT
- Changing records: UPDATE
- Removing records: DELETE
- Targeting specific records in queries: WHERE
- Sorting results: ORDER BY
- Aggregate functions: COUNT() | AVG() | SUM()

Joins
- Intro to joins
- Inner Join
- Left Join
- Right Join
- Full (Cross) Join