

## Week 11 Quiz

CSCI040: ~~Computing for the Web~~ Introduction to Hacking

**Instructions.** Use the SQL CREATE/INSERT instructions below to answer the questions. There is no self-grading of this quiz, simply upload your completed quiz to sakai.

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```
CREATE TABLE users (  
    id INTEGER PRIMARY KEY,  
    username TEXT NOT NULL UNIQUE,  
    password TEXT NOT NULL,  
    age INTEGER  
);  
INSERT INTO users (username, password, age) VALUES  
    ('trump', '12345', 74),  
    ('biden', 'password', 77),  
    ('evan', 'asd9uh9893dsdASDas-d', 2),  
    ('mike', '#FJASSIDasdjasudha8081hdasd', 35),  
    ('kristen', 'asdiahisda89283d92uqwudausd98', NULL);  
  
CREATE TABLE messages (  
    id INTEGER PRIMARY KEY,  
    sender_id INTEGER NOT NULL,  
    message TEXT NOT NULL,  
    created_at TIMESTAMP NOT NULL DEFAULT CURRENT_TIMESTAMP  
);  
INSERT INTO messages (sender_id, message) VALUES  
    (1, 'I''m_a_baby.'),  
    (2, 'I''m_a_baby.'),  
    (3, 'I''m_a_toddler.'),  
    (3, 'My_daddy_is_the_best.'),  
    (3, 'I_love_you,_I_love_everyone:');
```

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**Problem 1.** What is the output of the following SQL query?

```
SELECT age,username FROM users WHERE username='trump';
```

**Problem 2.** What is the output of the following SQL query?

```
SELECT username FROM users WHERE age>2;
```

**Problem 3.** What is the output of the following SQL query?

```
SELECT message FROM messages WHERE sender_id==3;
```

**Problem 4.** What is the output of the following SQL queries?

```
UPDATE users SET password='test';  
SELECT username FROM users WHERE password=='test';
```

**Problem 5.** What is the output of the following SQL queries?

```
UPDATE users SET age=35 WHERE age IS NULL;  
SELECT username FROM users WHERE age==35;
```