Reporting with SQL Part 2 Notes

Team Treehouse

June 5, 2020

1 What Are Functions?

- Prsents data differently through manipulation
- Syntax: function name(value or column)
- e.g. LENGTH(), UPPER("Andrew Chalkley"), SUM()

2 Adding Text Columns Together

- Snytax: SELECT value or column ||value or column ||value or column FROM table name;
- $|| \rightarrow \text{concat operator}|$

Example:

```
SELECT first_name | | " " | | last_name AS "Full Name",
email AS "Email", phone AS "Phone"
FROM customers;
```

Full Name	Email	Phone
Lauren Chalkley	Lauren.Chalkley@example.com	(601)-555-8510
Dave McFarland	Dave.McFarland@example.com	(675)-555-4108
Pasan Premaratne	pdawg@example.com	(898)-555-3719
Andrew Chalkley	Andrew@teamtreehouse.com	(798)-555-8112
Rachael Hinkley	Rachael.Hinkley@example.com	(645)-555-2397

3 Single vs Double Quotes

- Exists difference in use
- Single Quote \rightarrow for string literlas (e.g. 'lbs')
- Double Quote \rightarrow for column aliases (e.g. "Max Weight")

Example:

```
SELECT maximum_weight || 'lbs' AS "Max Weight" FROM ELEVATOR_DATA;
```

4 Exercise 1

• Solution included in exercise_1.sql

5 Finding the Length of Text

- Syntax: SELECT LENGTH(value or column) FROM table name;
- Returns length of a value or value in each row of a column
- Can also be used in WHERE
 - **Syntax:** SELECT columns FROM table name WHERE LENGTH(column name) operator value;

Example:

```
SELECT username, LENGTH(username) AS "length" from customers ORDER
BY length DESC LIMIT 1;

SELECT username FROM customers WHERE LENGTH(username) < 7;

SELECT username LENGTH(username) AS "length" FROM customers WHERE length < 7;
```

username	length
poley_hands	11