

## Chapter 02b, Single Table Queries

### T-SQL Fundamentals

## 1 Readings

Read chapter 2 of the textbook T-SQL Fundamentals, pages 49 through 73.

## 2 Homework Questions

1. What is a data type? Why do we have data types?
2. What is a collation? Name four elements of a collation.
3. How would you strip whitespace from a string? For example, suppose you had “\_\_\_Dave\_\_\_” but wanted only “Dave”.
4. Suppose you wanted to make a list of every college and university that was called an Institute from the `college` table. Write the query.
5. How would you find out the index of the first space in a string? For example, the index of the first space in “Barack Hussein Obama” would be 7.
6. How would you select just the first name in a list of the presidents. Each record looks like the: ”George Washington”, ”John Adams”. First names can be an arbitrary length, from “Cal” to “Benjamin.” (e.g., Cal College, Benjamin Harrison)
7. What is the order of precedence for the logical operators?
8. What is the order of precedence for the math operators?
9. What is the difference between a simple and a searched CASE expression?;
10. How would you turn a list of names like this: “LASTNAME, FIRSTNAME”, to a list like this: “FIRSTNAME LASTNAME”?
11. How would you turn a list of names like this: “FIRSTNAME LASTNAME”, to a list like this: “LAST-NAME, FIRSTNAME”?

## 3 Homework Exercises

We will download and install the database the text book uses, TSQV4. We will do this on the machine that you installed SQL Server and SSMS on. You will be using this for the homework.