

Chapter 02c, Single Table Queries

ISTA-420, T-SQL Fundamentals

1 Readings

Read chapter 2, pages 73 – 93 in the *T-SQL Fundamentals* book.

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. First names can be an arbitrary length, from “Cal” to “Benjamin.”
7. Payments are due exactly 30 days from the date of the last function. Write a select query that calculates the date of the next payment. Pretend we want to update a column in a database that contains the date of the next payment. We will do this when we write `UPDATE` queries.
8. Suppose your son or daughter wants to run a query every day that tells them the number of days until their 16th birthday. Write a select query that does this.
9. What function returns the current date? This is very useful in a table that maintains a log of events, such as user logins.