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CHP 2

HW 2B

Homework Questions

1. What is a data type? Why do we have data types?

-There are two types of data types; regular and Unicode.

-Regular data types include CHAR, VARCHAR (element has a fixed length which means the SQL server preserves a defined space based on the columns size rather than the number of characters in the character string.). We use this data type for write focused systems.

-Unicode data types: NCHAR, NVARCHAR. A Unicode data type has a variable length and allows the SQL server to use as much storage space in a row as required to store the characters in the string along with 2 additional bytes for offset data.

2. What is a collation? Name four elements of a collation.

-A collation is a property of character data that encapsulates several aspects; language support, sort order, case sensitivity, accent sensitivity, and more.

-Ex: Latin1\_General, dictionary sorting, CI(case sensitive), AS (Accent sensitive)

3. How would you strip whitespace from a string? For example, suppose you had “ ,, ,, ,, Dave ,, ,, ,, " but wanted only “Dave".

-You can use the RTRIM and LTRIM function to remove leading and/or trailing spaces. You can delimit identifiers by using double quotes or closed brackets.

- SELECT RTRIM(LTRIM ‘ 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 the number of the index of the first space in a string? For example, the index of the first space in “Barack Hussein Obama" would be 7.

You would use the WHERE clause

CHOOSE( <index>, <expr1>, <expr2>,…, <exprn>)

6. How would you select just the first name in a list of the presidents. Each record looks like the: "George Washington", "John Adams", "Thomas Jefferson". 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"?