Week 9 Research

What are ten different data types MySQL provides?

 - Integers -> TINYINT, SMALLINT, MEDIUMINT, INT, BIGINT

 - Decimals -> DECIMAL(M, D), PRECISION, SCALE

 - Date and Time -> DATETIME, TIMESTAMP, DATE, TIME, YEAR

 - Character -> CHAR, VARCHAR

 - Text -> TINYTEXT, TEXT, MEDIUMTEXT, LONGTEXT

 - Enumerated -> ENUM

 - Boolean -> BOOLEAN, TRUE or FALSE

 - Blob -> TINYBLOB, BLOB, MEDIUMBLOB, LONGBLOB

 - Float -> FLOAT(M, D)

 - Double -> DOUBLE(M, D)

How is each data type you described used, and what makes it unique?

 - Like how I listed above, there are many data types and all take in different values. Integers take in whole numbers and go from smallest (TINYINT) to biggest(BIGINT). Decimals are what it is and the number of values it can have can be set with DECIMAL(3,2) which turns to –9.99. Date and time can take in years, months, and days with DATE. Hours, minutes, seconds with TIME and years with YEARS. Characters take in chars with CHAR which is a fixed amount of 255 max and VARCHAR(300) with an amount we can set. Text is taking in many characters which range from TINYTEXT(256 characters) to TEXT(65,536 characters). LONGTEXT is higher, but that is in the billions which won't really be used much. Enum is a predefined value in which a column must contain that value. Boolean is similar to java, a true or false type. We haven't touched up on the other 3 as much, but from what I've read the Blob date type can take in audio, video links, images or files.

I'm not sure it was my favorite thing to learn this week, but I definitely needed the practice on making menu driven applications with this weeks coding assignment. I still find using the scanner pretty confusing so I need to study on it a bit more.

Citing

Team, dbForge. "MySQL Data Types: Full List with Examples (2022)." *Devart Blog*, 7 Sept. 2022,
        https://blog.devart.com/mysql-data-types.html. Accessed 5 Nov. 2022.

Promineo Tech. W8 02 MySQL Data Types. 14 Jun. 2022. W8 02 MySQL Data Types
https://www.youtube.com/watch?v=hMY_5u7ZY_U&t Accessed 5 Nov. 2022.

8 02 MySQL Data T