



## Week 9 Research Assignment

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**Instructions:** As developers, research is a constant part of our job. A common saying is that 90% of software development is Googling, and while that is an exaggeration, Google is a highly used tool in the role. This Research assignment is meant to go beyond the course curriculum and increase your understanding of relevant topics while exposing you to online resources you'll frequently use on the job. Please write a paragraph for two (2) of the above prompts and include URLs from where you found the information to cite your sources. Do not copy and paste text from the internet or any other source; use the information you find in your research, summarize, in your own words, the concepts. Plagiarism will result in a zero for the assignment as well as disciplinary actions.

This assignment is graded based on participation.

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1. What are ten different data types MySQL provides?

Six string types including TEXT, BLOB, CHAR/VARCHAR, BINARY/ VARBINARY, ENUM, SET and four integer types including TINYINT, SMALLINT, INT, MEDIUMINT, BIGINT

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

Each data type has its own uses that makes it unique. Text is used for pieces of text and A small non-binary string. A blob for anything big such as a collection of binary data stored as a single entity such as an image. Char/VarChar is for simple characters and A non-binary string. A Binary for a fixed-length binary string and enum for an enumeration. Set is for a set of something like in java. The first of the four integer types, Tinyint, ,is used for a very small number of 1 byte (1 to 255). Small int for 2 bytes ((32,767) and int for a number up to around 2 billion, mediumint larger than that, and bigint up to  $2^{63}-1$ .

3. What is your favorite thing you learned this week?

My favorite thing I learned this week was putting the puzzle pieces together when it came to creating and making my application connect to the database and inputting data to that database. I think that was the best thing I learned this week to better translate those skills to real uses.

Sources and URLs:

<https://blog.devart.com/mysql-data-types.html>

<https://www.mysqltutorial.org/mysql-data-types.aspx>