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CSD310

Module 5.2 Assignment

Three SQL native functions.

1. BIN() & HEX()

select BIN(65535) as 'Decimal to Binary';

select HEX(65535) as 'Decimal to Hexidecimal';

Often you will be presented a problem where the data requires converting to another data type. You may have a decimal number in logs, but to better understand a software issue you convert to binary. This is useful in networking administration as IPv4 addressing is represented as decimal but four octets of ones and zeros to the machines. HEX to decimal also is network-related conversion, as IPv6 is represented in hexadecimal.

I used the alias Decimal to Binary/Decimal to Hexadecimal since that is what the BIN()/HEX() function is doing.

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1. RAND()

select RAND() as 'Random Number';

Rand() generates random numbers between 0 and 1. Random can help developer build graphs and provide data with the specific purpose of forecasting with uncertainty.

I chose the alias Random Number, since that is what is being generated and users should understand the number isn’t related to anything tangible because it’s random.

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1. IF()

SELECT IF(500<1000, "YES", "NO") AS ‘Sales’;

Usually when you’re trying to find answers within a large data set you should filter based on conditions toward understanding a certain aspect of the business. Narrowing the data helps identify trends of your business and its customers.

I chose Sales as the alias to illustrate the true power of Boolean expressions in a language. We can filter everything out that isn’t a purchase within a certain range of dollars or a product accounting for the majority of our sales. I haven’t created a database with information so the visual isn’t very meaningful.

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Sources:

https://www.w3schools.com/sql/func\_mysql\_if.asp