



SQL

Objectives

In this module, we will focus on more useful functions we can use in SQL.

Trainer Notes

We will review the new methods here then go through demos and exercises to practice



Time/Date Functions

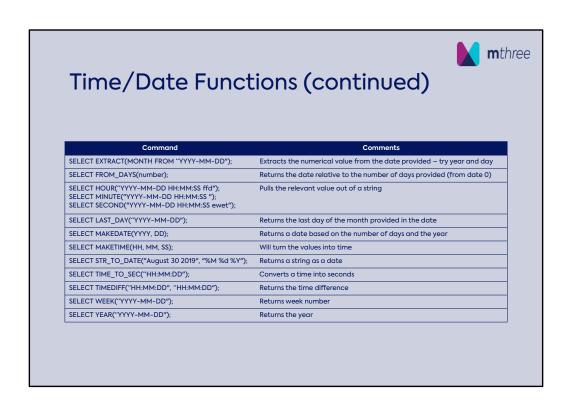
SQL provides us with a handy set of functions that allow us to work with time and dates in our queries.

Command	Comments
SELECT curdate(); SELECT current_date();	Returns YYYY-MM-DD
SELECT localtime(); SELECT now(); SELECT current_timestamp();	Returns YYYY-MM-DD HH:MM:SS
SELECT current_time(); SELECT curtime();	Returns HH:MM:SS
SELECT adddate("YYYY-MM-DD", INTERVAL 10 DAY); SELECT date_add("2020-03-21", INTERVAL 10 DAY);	Returns 10 days later than the given day
SELECT addtime("YYYY-MM-DD HH:MM:SS", "6");	Returns the date and time 6 seconds later



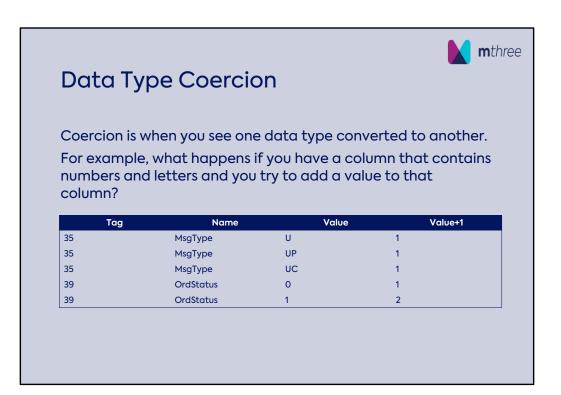
Time/Date Functions (continued)

Command	Comments
SELECT date_format("YYYY-MM-DD", "%D");	Returns in this case the day in English e.g. 21st . Try with %Y and $\% M$
SELECT date("2020-05-2111:24:23 xyz");	Returns the date part of a string
SELECT week("2020-05-22");	Returns the week number of the year for a date
SELECT year("2019-12-11");	Returns the year out of date
SELECT datediff("YYYY-MM-DD", "YYYY-MM-DD");	Returns the number of days between two dates
SELECT date_sub("YYYY-MM-DD", INTERVAL 5 DAY);	Subtracts the number of days from the date provided
SELECT DAYNAME("YYYY-MM-DD");	Returns the day name, e.g., Monday
SELECT MONTHNAME("YYYY-MM-DD");	Returns the month name, e.g., July
SELECT DAYOFWEEK("YYYY-MM-DD"); SELECT DAYOFYEAR("YYYY-MM-DD");	Returns the index value for the day of the week or the day of the year



Trainer/Trainee Notes

As you can see here the extra string will just be ignored in the HOUR/MINUTE/SECOND commands



Trainer/Trainee Notes

This is something you want to be aware of when doing any calculations on columns and looking for the results.