Other Useful Data Types

Other Useful Data Types

DATE

used to represent a date in the format YYYY-MM-DD

1st of January 1000 - 31st of December 9999

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e.g. 25th of July 2018: `'2018-07-25'`

Other Useful Data Types

`DATE` +  = `DATETIME`

next to the date, we could save the time:

YYYY-MM-DD HH:MM:SS[.fraction]

0 – 23:59:59.999999

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e.g. 25th of July 2018 9:30 a.m.: `'2018-07-25 9:30:00'`

Other Useful Data Types

DATETIME

represents the date shown on the calendar and the time shown on the clock

vs.

TIMESTAMP

used for *a well-defined, exact point in time*

Other Useful Data Types

TIMESTAMP

used for *a well-defined, exact point in time*

1st of January 1970 UTC – 19th of January 2038, 03:14:07 UTC

- records the moment in time as the number of seconds passed after the 1st of January 1970 00:00:00 UTC

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e.g. 25th of July 2018: `1,535,155,200`

Other Useful Data Types

TIMESTAMP

- representing a moment in time as a number allows you to easily obtain the difference between two TIMESTAMP values

e.g. end time: ‘2018-07-25 10:30:00’ UTC — TIMESTAMP

\-

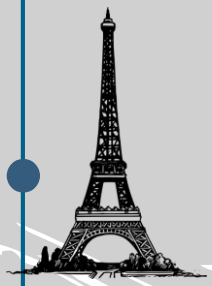
start time: ‘2018-07-25 09:00:00’ UTC — TIMESTAMP

5,400 — TIMESTAMP

Other Useful Data Types

TIMESTAMP is appropriate if you need to handle time zones

London  = 1:00 a.m

Paris  = 2:00 a.m

‘1970-01-01 01:00:00’ UTC

Other Useful Data Types

string, *date*, and *time* data types	*numeric* data types
CHAR	INTEGER
VARCHAR	DECIMAL
DATE	NUMERIC
DATETIME	FLOAT
TIMESTAMP	DOUBLE

data must be written within quotes

only numeric values are written without quotes

Other Useful Data Types

BLOB

Binary Large OBject

- refers to a file of binary data – data with 1s and 0s
- involves saving *files* in a record

Other Useful Data Types

Customers					
customer_id	first_name	last_name	email_address	number_of_complaints	photo
1	John	McKinley	john.mackinley@365careers.com	0	
2	Elizabeth	McFarlane	e.mcfarlane@365careers.com	2	
3	Kevin	Lawrence	kevin.lawrence@365careers.com	1	
4	Catherine	Winnfield	c.winnfield@365careers.com	0	*.jpg

Other Useful Data Types

string, *date*, and *time* data types	*numeric* data types
CHAR	INTEGER
VARCHAR	DECIMAL
DATE	NUMERIC
DATETIME	FLOAT
TIMESTAMP	DOUBLE