

A modern conference room with large windows and a long table. The room is empty, with several chairs arranged around the table. The view outside the windows shows a cityscape. The image has a blue tint and a stylized, torn-paper-like border.

Introduction to Data Types

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- We must *always* specify the *type* of data that will be inserted in *each* column of the table

Different data types represent different *types of information* that can be contained in a specific column

Introduction to Data Types

	Surname of a person:	
string	'James'	

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	Surname of a person:	
string	'James'	

length

a measure used to indicate how many symbols a certain string has

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	Surname of a person:	length	
string	'James'	5 symbols	
	'Jackson'	7 symbols	

length

a measure used to indicate how many symbols a certain string has

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- Digits, symbols, or blank spaces can also be used in the string format

they will only convey text information

e.g. addresses: 'Hugh Street 45'

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size

indicates the memory space used by a data type

- measured in bytes

- 1 byte ~ 1 symbol

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	Surname of a person:	length	size
string	'James'	5 symbols	5 bytes

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storage

the physical space in the computer drive's memory, where the data is being saved or stored