Text and date functions

DATA PREPARATION IN EXCEL



lason PrassidesContent Developer, DataCamp



Data types

- Text functions
 - Deal with text strings, e.g., name

	Г		ī										
student_id	r	first_name ▼	Ī	st_name ▼	te	est_date	₩	gender	class	•	math_	score	~
100	2	Elvin	I	hilcott		01/03	/23	Male	Blue				73
100	3	Giavani	I	uckner		01/15	/23	Male	Red				51
100	5	Bartolomeo	ı	leck		01/15	/23	Male	Green				5
100	7	Abram	١	errell		01/03	/23	Male	Red				85
100	В	Rossy	`	ele		01/15	/23	Male	Blue				66
100	1	Marline	I	ail		01/15	/23	Female	Red				12
100	4	Hyacinthia	I	erger		01/03	/23	Female	Green				88
100	ô	Kissie	I	irkham		01/15	/23	Female	Blue				18
100	9	Randa	(oatman		01/03	/23	Female	Blue				32
101	0	Reyna	(rickmer		01/15	/23	Female	Green				81
100	9	Randa	(oatman		01/03	/23	Female	Blue				3

Data types

- Text functions
 - Deal with text strings, e.g., name
- Data & Time functions
 - Deal with date & time information, e.g., test_date

		L	ľ					T		
student_id	first_name	last_name	r	test	_date	₩	g	nder -	class v	math_score ~
1002	Elvin	Philcott			01/03/	23	М	ıle	Blue	73
1003	Giavani	Buckner			01/15/	23	М	ile	Red	51
1005	Bartolomeo	Heck			01/15/	23	М	ıle	Green	5
1007	Abram	Verrell			01/03/	23	М	ıle	Red	85
1008	Rossy	Yele			01/15/	23	M	le	Blue	66
1001	Marline	Pail			01/15/	23	F	male	Red	12
1004	Hyacinthia	Berger			01/03/	23	F	male	Green	88
1006	Kissie	Kirkham			01/15/	23	F	male	Blue	18
1009	Randa	Coatman			01/03/	23	F	male	Blue	32
1010	Reyna	Crickmer			01/15/	23	F	male	Green	81
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Text functions - LEN()

LEN()

- Syntax: LEN(text)
- Counts the number of characters in a text string
 - Including spaces and special characters

Business case

- Identify anomalies
- Ensure phone numbers stored have been entered correctly

Phone Number	Length
+1202-555-379	13
+1202-555-643	13
+1202-555-112	=LEN(B6)
+1202-555-889	13
+1202-555-434	13
+1202-555-37	12
+1202-555-339	13
+1202-555-237	13
+1202-555-566	13
+1202-555-983	13

Text functions - CONCAT()

CONCAT()

- Syntax: CONCAT(text1, [text2],...)
- Combines the text from multiple ranges and/or strings
- Delimiters have to be entered manually

Business case

- Create new categories and reduce columns
- Combine delivery address information

Street ▼	City ▼	Address ▼		
12 Field Close	London	12 Field Close,London		
43 Way Street	Bristol	43 Way Street, Bristol		
555 Hassocks Road	Leeds	=CONCAT(B6,",",C6)		
63 Name Way	Manchester	63 Name Way, Manchester		
100 George Street	Brighton	100 George Street, Brighton		
7 Neal Street	Norwich	7 Neal Street, Norwich		
88 Timber Close	Newcastle	88 Timber Close, Newcastle		
443 Beulah Hill	Bath	443 Beulah Hill,Bath		
7878 Side Street	Birmingham	7878 Side Street, Birmingham		
29 Main Way	Nottingham	29 Main Way, Nottingham		

Text functions - TEXTJOIN()

TEXTJOIN()

Syntax:

```
TEXTJOIN(delimiter, ignore_empty,
text1, [text2],...)
```

- Combines text from multiple ranges and/or strings, and includes a delimiter
- Can include/exclude empty cells

Business case

Create URL address

URL Start ▼	URL Name ▼	URL Domain ▼	URL Address
www	dataco-hr	co.uk	www.dataco-hr.co.uk
www	dataco-marketing	com	www.dataco-marketing.com
www	dataco-supplies	edu	www.dataco-supplies.edu
www	dataco-stores	org	www.dataco-stores.org
www	dataco-ho	net	=TEXTJOIN(".",FALSE,B8,C8,D8)
www	dataco-office	info	www.dataco-office.info
www	dataco-transport	com	www.dataco-transport.com
www	dataco-employee	net	www.dataco-employee.net
www	dataco-sites	info	www.dataco-sites.info
www	dataco-internal	org	www.dataco-internal.org

Date and time functions - TODAY()

TODAY()

- Syntax: TODAY()
- Returns the serial number of the current date
- The serial number is the date-time code used by Excel

Business case

• Inform users of last update of table

Stock Item ▼	Stock Delivery Dates	~
Cheese	06/03/	/23
Banana	06/27/	/23
Watermelon	06/28	/23
Milk	06/15/	/23
Bread	06/30/	/23
Pasta	06/21/	/23
Butter	06/20/	/23
Lettuce	06/26	/23
Chocolate	06/10/	/23
Lemon	06/08/	/23

Data Last Updated 07/19/23

Date and time functions - WEEKDAY()

WEEKDAY()

- Syntax:
 - WEEKDAY(serial_number,[return_type])
- Returns the day of the week corresponding to a date, as an integer
 - Default: 1 (Sunday) to 7 (Saturday)

Business case

 Calculating day of the week using sales date information for analysis

Stock Item T	Stock Delivery Dates	Weekday ▼	
Cheese	06/03/23	7	
Banana	06/27/23	3	
Watermelon	06/28/23	4	
Milk	06/15/23	5	
Bread	06/30/23	=WEEKDAY(C8,1)	
Pasta	06/21/23	4	
Butter	06/20/23	3	
Lettuce	06/26/23	2	
Chocolate	06/10/23	7	
Lemon	06/08/23	5	

Date and time functions - WORKDAY()

WORKDAY()

- Syntax:
 - WORKDAY(start_date, days, [holidays])
- Returns a number that represents a date that is the number of working days before or after a starting date.
- Excludes weekends and holidays

Business case

 Calculate employee availability based on time to complete current project

Employee ▼	Project Start Date	Next Availabe Date
Jess	07/03/23	08/01/23
Carl	07/27/23	08/25/23
Maarten	07/28/23	08/28/23
Nick	07/15/23	08/14/23
Jacob	07/30/23	08/28/23
Agata	07/21/23	=WORKDAY(C9,\$F\$4)
lason		08/18/23
Jim	07/18/23	08/16/23
Lisa	07/10/23	08/08/23
Sara	07/08/23	08/07/23

Average Days per Project



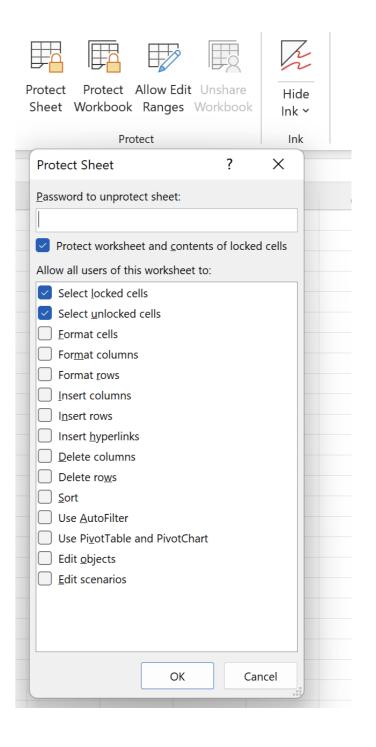
Protection and security

Various options to protect your data:

- File-level
- Workbook-level
- Worksheet-level

Protecting the worksheet

- Controls how users can work within a sheet
- Enabling whether users can:
 - Add or remove rows and columns
 - Sort data
 - AutoFilter data
- Includes cells, ranges, and formulas



Let's practice!

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More functions, better preparation

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Let's practice!

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