Lookups and PivotTables

DATA PREPARATION IN EXCEL

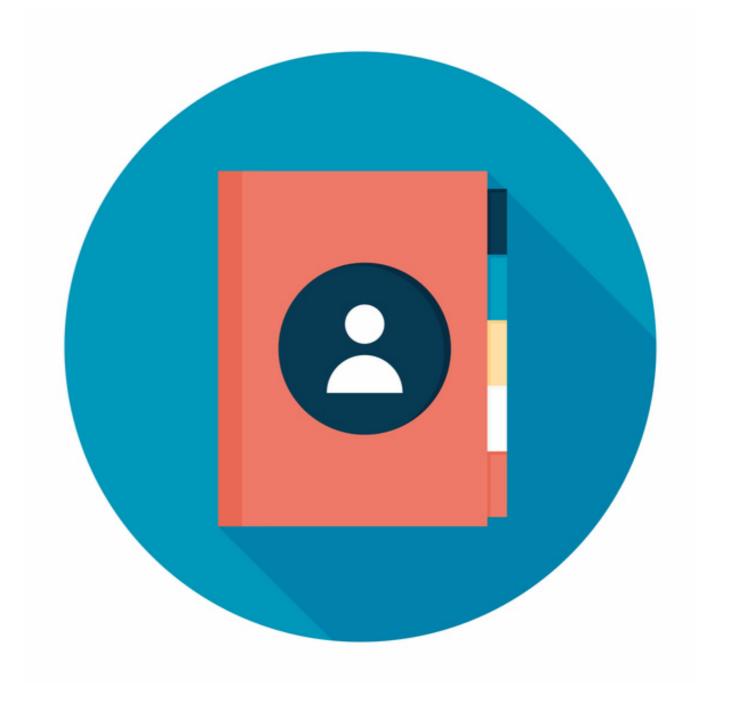


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Lookup and reference functions

- Many lookup and reference functions available
- Excel's address book functions
 - Use an address book to find information based on a single criteria
 - Lookup and reference functions allow similar action



Two LOOKUP functions

- Focus on two lookup functions
 - vL00KUP()
 - o HLOOKUP()
- Can be used to:
 - Lookup specific values based on an input value
 - Transfer information into a dataset from another sheet or file

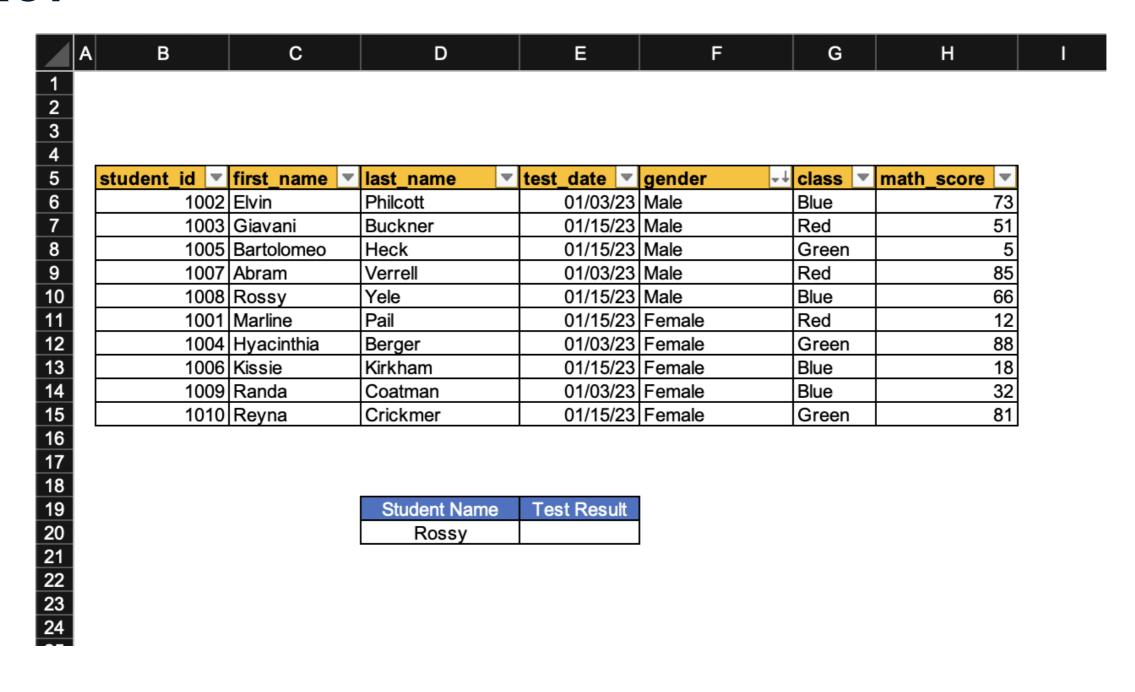


VLOOKUP

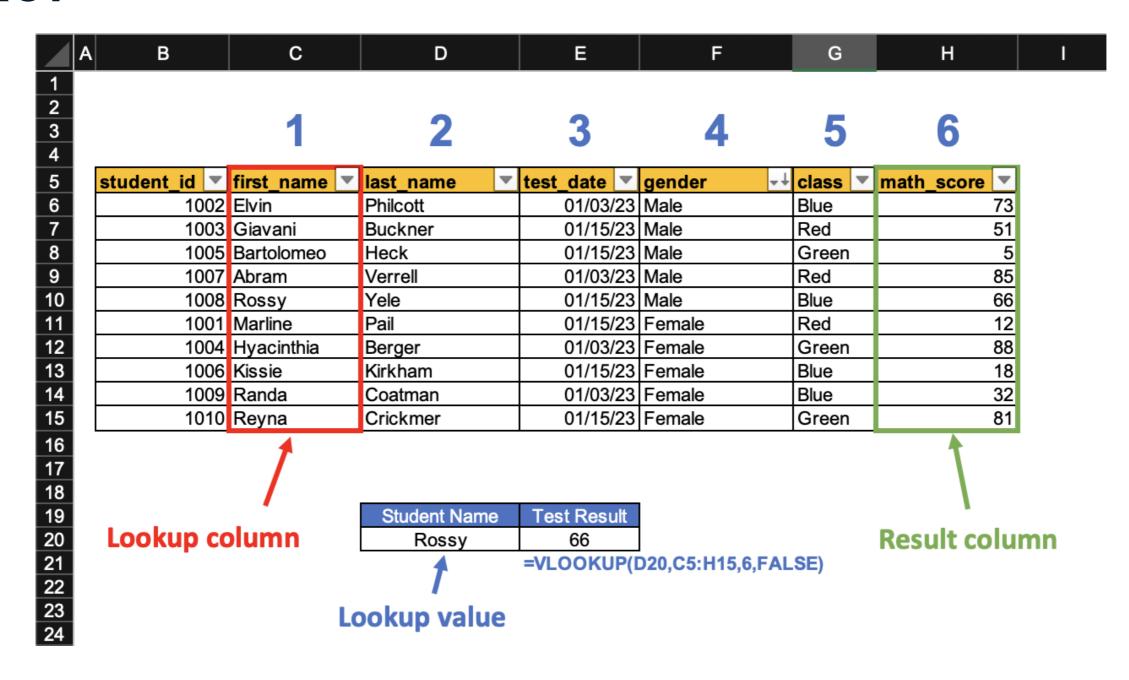
VLOOKUP()

- Syntax: VL00KUP (lookup_value, table_array, col_index_num, [range_lookup])
- Function arguments include:
 - lookup_value value searched in data
 - table_array table or dataset to be searched
 - col_index_num column number with return value
 - range_lookup exact match (FALSE) or approximate match (TRUE)

VLOOKUP



VLOOKUP

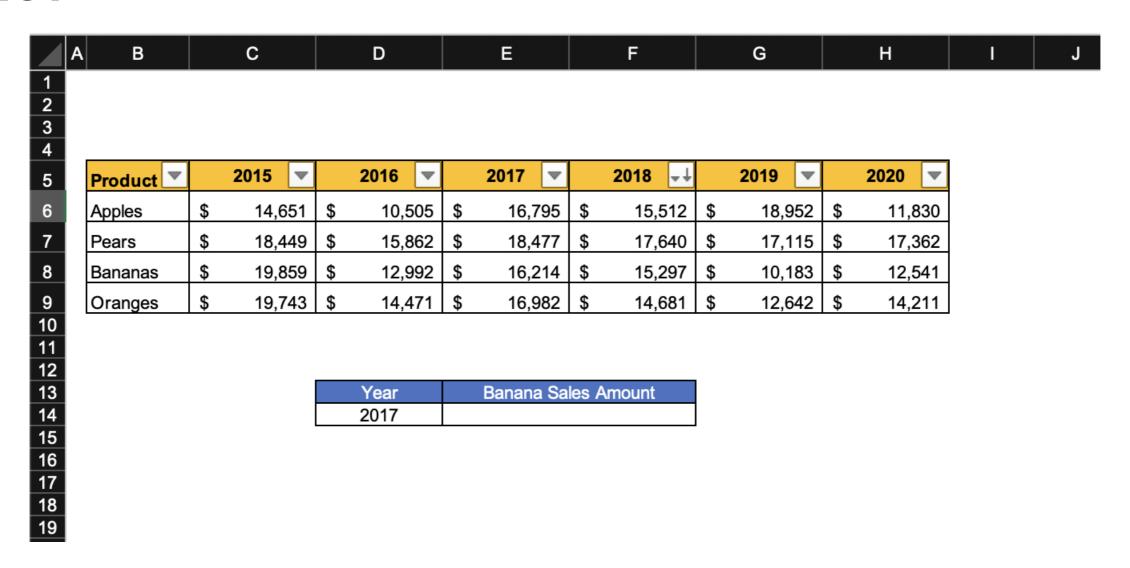


HLOOKUP

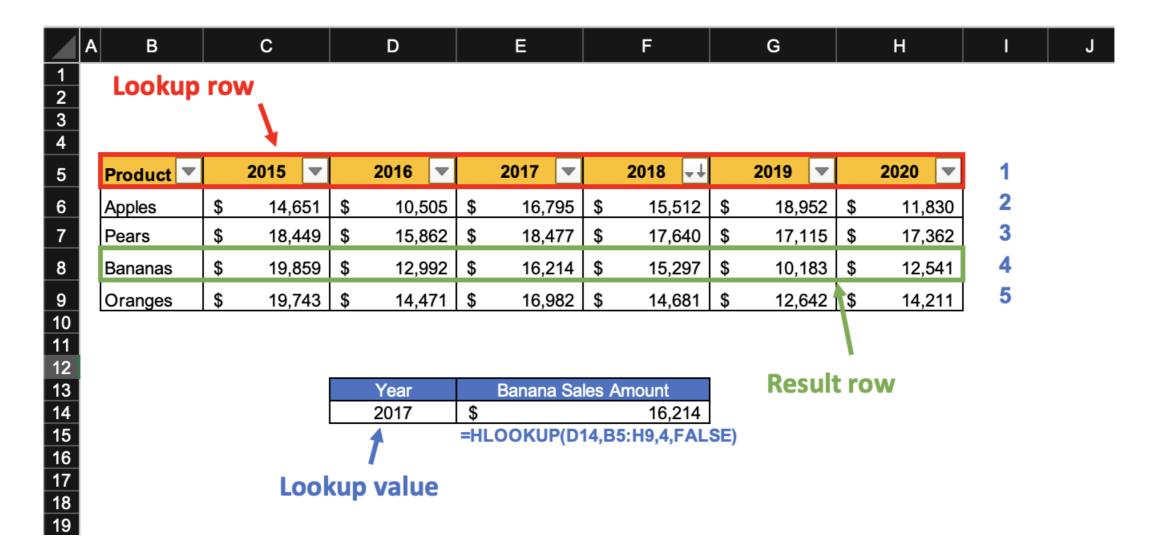
HLOOKUP()

- Syntax: HL00KUP(lookup_value, table_array, row_index_num, [range_lookup])
- Searches data horizontally
 - Has argument row_index_num instead of col_index_num
- Provides output by row number

HLOOKUP



HLOOKUP



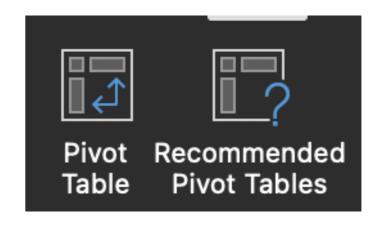
A new perspective

- Data preparation process
 - Transformed raw, tabular data
 - Cleaned, sorted, and organized
- Time to view data differently
 - summarized data



PivotTables

- Able to summarize and analyze large data volumes
- Aggregate and organize data in dynamic tables
- Transform rows to columns, and vice versa
- Group, filter, and aggregate data as we wish
- Identify trends and ensure data readiness for analysis





PivotTables

	Α	В		С	C D	C D E	C D E F	C D E F G	C D E F G H
	stomer ID 🚮	Insurance Type	İ						
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18		Life							
3		Medical							
4		Home							
5	322	Travel							
6	402	Home							
7	517	Medical							
8		Medical							
9	603	Life							
10	688	Travel							
11	708	Home							
12	884	Home							
13	905	Life							
14	944	Travel							
15	965	Medical							
16	981	Medical							
17	1023	Life							
18	1024	Travel							



PivotTables

	Α	В	С	D	E	F	G	
1 C	customer ID 📢	Insurance Type						
2	45	Life						
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	77	Medical						
4	88	Home						
5	322	Travel						
6	402	Home						
7	517	Medical						
8	571	Medical					_	
9	603	Life			Row Labels -T	Count of Customer ID		
10	688	Travel			Home	3567	7	
11	708	Home			Life	3857	5	
12	884	Home			Medical	2330	1	
13	905	Life			Travel	5244	<u>5</u>	
14	944	Travel			Grand Total	14999	8	
15	965	Medical						
16	981	Medical						
17	1023	Life						
18	1024	Travel						



Let's practice!

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Referencing and summarization

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Let's practice!

DATA PREPARATION IN EXCEL



Congratulations!

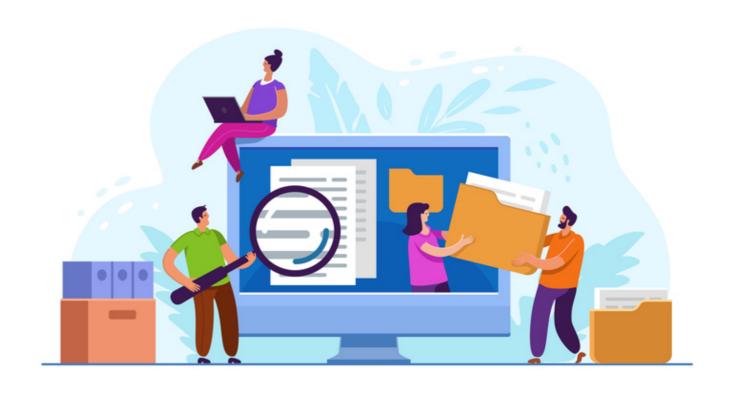
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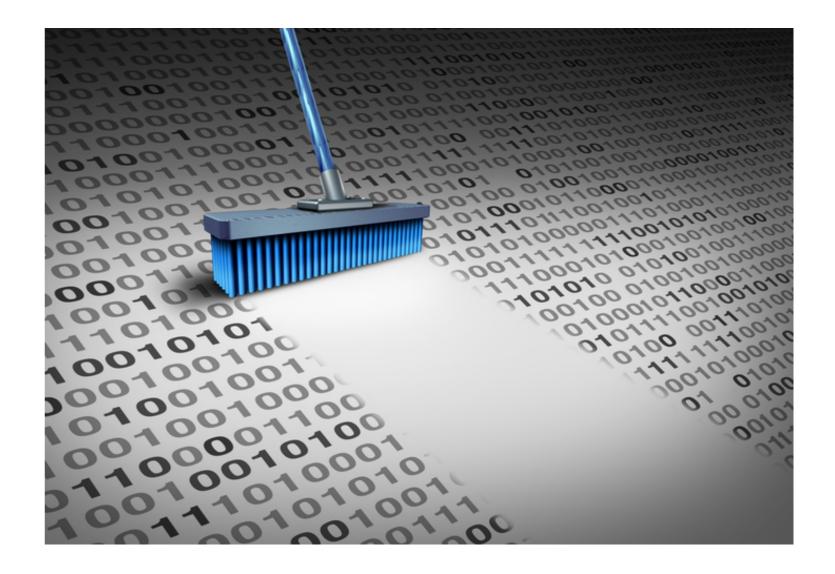
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- Ways to import data
 - Using different file types



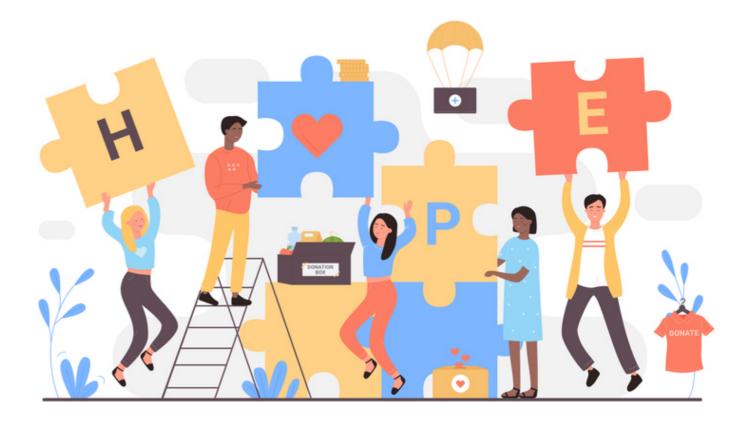
- Ways to import data
 - Using different file types
- Clean our data
 - Remove duplicates feature



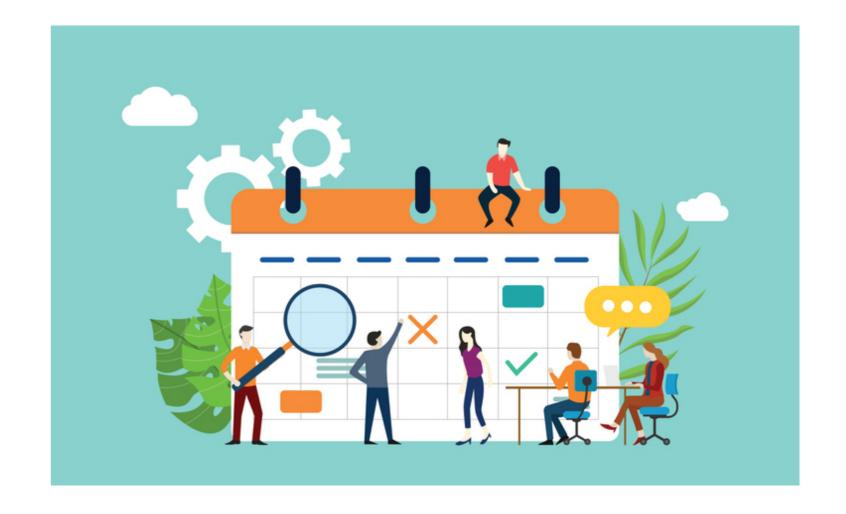
- Ways to import data
 - Using different file types
- Clean our data
 - Remove duplicates feature
- Added and manipulated data
 - Utilized Excel fill features



- Learned new text functions
 - Combined text strings together



- Learned new text functions
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- Learned new date functions
 - Added extra date information to our dataset



- Learned new text functions
 - Combined text strings together
- Learned new date functions
 - Added extra date information to our dataset
- Considered security and protection in Excel
 - Protecting specific worksheets

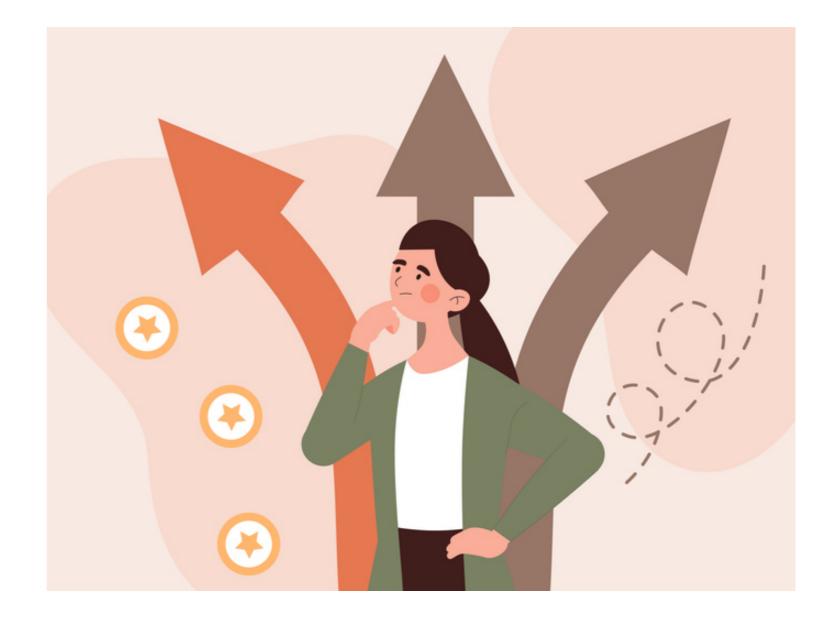


- Used logical operators
 - Created flags for filtering





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- Nested functions using IF() function
 - Added new categorical variables



- Used logical operators
 - Created flags for filtering
- Nested functions using IF() function
 - Added new categorical variables
- Sharing is caring
 - Notes and comments when sharing files



- Lookup functions
 - Bring information in from other sheets



- Lookup functions
 - Bring information in from other sheets
- PivotTables
 - Summarize data in dynamic tables



The Excel journey!

DATA PREPARATION IN EXCEL

