Count	Employee ID	Name	Age	Department	SSN
1	123	Alice	25	HR	A123
2	201	Bob	30	IT	B456
3	888	Carol	27	Finance	C789
4	358	David	35	Marketing	D012
5	965	Eve	29	Sales	E345

VLOOKUP	It searches for a value in the first column of a range and returns a value in the same row from a specified column. ISSUE: Can only search for values in the first colum	
	<pre>VLOOKUP(lookup_value, table_array, col_index_num, match_type)</pre>	
lookup_value	The value to search for in the first column	
table_array	The range of cells containing the data	
col_index_num	The column number in the range from which to retrieve the value	
match_type	Optional. TRUE for approximate match (default) or FALSE for exact match	
Output:	The value from the specified column in the same row as the lookup_value	

MATCH	Searches for a specified value in a column and returns the relative position of that value within the column
	MATCH(lookup_value, lookup_array, match_type)
lookup_value lookup_array match_type	The value to search for The column containing the data Optional. 0 for an exact match, 1 for less than, -1 for greater than.
Output:	The position of the value in the column

INDEX	Returns the value of a cell in a given range using row and column (I call it the battleship function because you give it coordinates, it the returns value)		
	<pre>INDEX(table_array, row_num, column_num)</pre>		
table_array row_num column_num	The range of cells containing the data The row number in the array The column number in the array		
Output:	The value of a specified cell		

	Example Find the Department for Employee ID 888	
VLOOKUP	VLOOKUP(888; B2:E6; 4; FALSE)	Finance
INDEX	INDEX(B2:E6; 3; 4)	Finance
MATCH	MATCH(888; B2:B6; 0)	3
INDEX AND MATCH	INDEX(B2:E6; MATCH(888; B2:B6; 0); 4)	Finance
XLOOKUP	XLOOKUP(888; B2:B6; E2:E6)	Finance

<pre>VLOOKUP(lookup_value, table_array, col_index_num, match_type)</pre>					
	<pre>INDEX(table_array, row_num, column_num)</pre>				
	MATCH(lookup_value, lookup_array, match_type)				
	You can combine INDEX and MATCH to get a more versatile VLOOKUP				
Step 1. Use MATCH to find the row number of the lookup value					
Step 2. Use INDEX to retrieve the value from a specified column based on the row number from MATCH					
INDEX(table_array, MATCH(lookup_value, lookup_array, 0), column_num)					
table_array	The range of cells containing the data				
lookup_value	The value to search for We use lookup-value, lookup-array, match-type in the				
lookup_array	The range of cells row_num We use tookup_vatue, tookup_array, match_type in the MATCH function to get the row num that the INDEX table				
match_type	0 for exact match needs				
column_num	The column number in the array				
Output:	The same as a VLOOKUP but with the advantage that you can specify which column contains the lookup value through the lookup array in the MATCH function.				