

Pivoting From Feelings to  
Functions: Intermediate Data  
Analysis in Excel  
*McGill University Libraries*

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# 1 Introduction

This guide has been designed to accompany the Excel workshop offered by the McGill Libraries. It is based on a workshop originally developed by the [Empirical Reasoning Center](#), at Barnard College. The example dataset is available on kaggle, an online community for data science and machine learning. According to the description, “This is a historical dataset on the modern Olympic Games, including all the Games from Athens 1896 to Rio 2016.” User rgriffin scraped this data from [www.sports-reference.com](http://www.sports-reference.com) in May 2018. “Note that the Winter and Summer Games were held in the same year up until 1992. After that, they staggered them such that Winter Games occur on a four year cycle starting with 1994, then Summer in 1996, then Winter in 1998, and so on. A common mistake people make when analyzing this data is to assume that the Summer and Winter Games have always been staggered.”

The original source of the data in kaggle is here: <https://www.kaggle.com/datasets/heesoo37/120-years-of-olympic-history-athletes-and-results/data>

This workshop builds off of the Introduction to Excel Workshop. For review consult the introductory step-by-step guide: [https://github.com/Digital-Scholarship-Hub/WorkingWithDataInExcel/blob/main/LDW26\\_Excel-erateYourDataAnalysisSkills.pdf](https://github.com/Digital-Scholarship-Hub/WorkingWithDataInExcel/blob/main/LDW26_Excel-erateYourDataAnalysisSkills.pdf)

The topics covered in this workshop include:

- Searching with VLOOKUP
- Sorting & Filtering data
- Conditional statements
- Nested formulas
- Pivot Tables

## 2 Searching for Particular Values

Sorting and filtering your data can be helpful for organization. However, sometimes you just need to look up a particular value, and if you have a lot of data then sorting and filtering will still take time. The function “VLOOKUP” allows you to search your data by one variable and returns the value of another variable. Another use of vlookup is merging two datasets that have overlapping information.

### VLOOKUP: Example 1

For example, we have data in the sheet Total\_Medals\_byAthlete the unique ID of each athlete and the total number of medals they’ve won. We also want to use the age of each athlete in another calculation.

|    | A  | B            | C   | D           | E             | F                  | G                           |
|----|----|--------------|-----|-------------|---------------|--------------------|-----------------------------|
| 1  | ID | Total_Medals | Age | Total_Golds | Mega_Champion | Mega_Gold_Champion | Youthful_Mega_Gold_Champion |
| 2  | 4  |              | 1   |             | 1             |                    |                             |
| 3  | 15 |              | 2   |             |               |                    |                             |
| 4  | 16 |              | 1   |             |               |                    |                             |
| 5  | 17 |              | 5   |             | 3             |                    |                             |
| 6  | 20 |              | 8   |             | 4             |                    |                             |
| 7  | 21 |              | 1   |             | 1             |                    |                             |
| 8  | 25 |              | 1   |             |               |                    |                             |
| 9  | 29 |              | 1   |             |               |                    |                             |
| 10 | 30 |              | 1   |             |               |                    |                             |
| 11 | 37 |              | 1   |             |               |                    |                             |
| 12 | 38 |              | 1   |             |               |                    |                             |
| 13 | 40 |              | 2   |             | 1             |                    |                             |
| 14 | 42 |              | 1   |             | 1             |                    |                             |
| 15 | 56 |              | 1   |             | 1             |                    |                             |
| 16 | 62 |              | 1   |             |               |                    |                             |
| 17 | 63 |              | 1   |             |               |                    |                             |
| 18 | 65 |              | 1   |             |               |                    |                             |
| 19 | 67 |              | 1   |             |               |                    |                             |
| 20 | 72 |              | 1   |             | 1             |                    |                             |
| 21 | 73 |              | 3   |             | 2             |                    |                             |

The goal is to have the VLOOKUP function search for the ID in column A and fill in the age result in column C. To do this, we will use the VLOOKUP function in cell C2.

The VLOOKUP function requires four inputs: the value you want to search for, the table to search in, the column number of the value you want to return, and how exact the match needs to be. In this example, the value you want to search for will be the unique ID that is entered in cell A2. The table to search will be the data in the Athlete\_Age sheet starting with column A and ending with column B. The VLOOKUP function requires that the first (left-most) column of the table be the column that would contain the searching value (ID). The column number of the value you want to return is 2. This input does not refer to the column letter of the variable (Age). This input is asking for how many columns from the left IN THE TABLE YOU PROVIDED AS THE PREVIOUS INPUT is the variable you want to



C2    :    ✕    ✓    *fx*    =VLOOKUP(Total\_Medals\_byAthlete!A2,Athlete\_Age!A\$2:B\$28252,2,0)

|    | A  | B            | C   | D           | E             | F                  |       |
|----|----|--------------|-----|-------------|---------------|--------------------|-------|
| 1  | ID | Total_Medals | Age | Total_Golds | Mega_Champion | Mega_Gold_Champion | Youth |
| 2  | 4  |              | 1   | 34          | 1             |                    |       |
| 3  | 15 |              | 2   | 30          |               |                    |       |
| 4  | 16 |              | 1   | 28          |               |                    |       |
| 5  | 17 |              | 5   | 28          | 3             |                    |       |
| 6  | 20 |              | 8   | 20          | 4             |                    |       |
| 7  | 21 |              | 1   | 27          | 1             |                    |       |
| 8  | 25 |              | 1   | 24          |               |                    |       |
| 9  | 29 |              | 1   | 22          |               |                    |       |
| 10 | 30 |              | 1   | 26          |               |                    |       |
| 11 | 37 |              | 1   | 23          |               |                    |       |
| 12 | 38 |              | 1   | 20          |               |                    |       |
| 13 | 40 |              | 2   | 23          | 1             |                    |       |
| 14 | 42 |              | 1   | 25          | 1             |                    |       |
| 15 | 56 |              | 1   | 21          | 1             |                    |       |
| 16 | 62 |              | 1   | 21          |               |                    |       |
| 17 | 63 |              | 1   | 30          |               |                    |       |
| 18 | 65 |              | 1   | 21          |               |                    |       |
| 19 | 67 |              | 1   | 22          |               |                    |       |
| 20 | 72 |              | 1   | 28          | 1             |                    |       |
| 21 | 73 |              | 3   | 23          | 2             |                    |       |

< >    Athletes\_AllOlympics\_Medals    Total\_Medals\_byAthlete    Athlete\_Age    Vlookup\_2ndl    +    :

## VLOOKUP: Example 2

Say we want to know the city where an olympic game was held and we don't want to just scroll through 28,000+ rows of data.

To do this, click over to the Vlookup\_2ndExample sheet. Now, let's label where our input (year and season of the olympic game) and output (city) will go. So type in cell A1 "Games:" and in cell A2 "City:". The goal is to type the year and season of the game in cell B1 and have the city appear in cell B2. To do this, we will use the VLOOKUP function in cell B2.

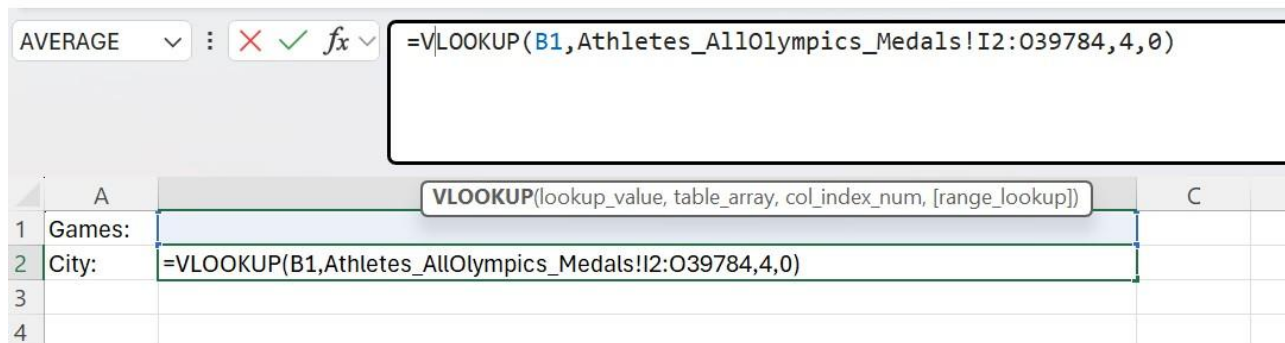
|   | A      | B | C |
|---|--------|---|---|
| 1 | Games: |   |   |
| 2 | City:  |   |   |
| 3 |        |   |   |
| 4 |        |   |   |
| 5 |        |   |   |

The VLOOKUP function requires four inputs: the value you want to search for, the table to search in, the column

number of the value you want to return, and how exact the match needs to be. In this example, the value you want to search for will be the year and season that is entered in cell B1. The table to search will be the data in the sheet Athletes\_AllOlympics\_Medals starting with column I and ending with column L. The VLOOKUP function requires that the first (left-most) column of the table be the column that would contain the searching value (Games). The column number of the value you want to return is 4. This input does not refer to the column letter of the variable (City). This input is asking for how many columns from the left IN THE TABLE YOU PROVIDED AS THE PREVIOUS INPUT is the variable you want to return for the searched for the games. The City variable is in column L, but is the fourth column in the table beginning with column I. Therefore, this function will find the row with the given olympic game and return the value in the City column for that row. The last input should be 0 if the given search value (olympic games) has to be an exact match – capitalization, punctuation, and spelling. This input should be 1 if the given search value can be an approximate match – small differences.

Putting all of that information together would give you the formula to enter in cell B2:

“=VLOOKUP(J1,Athletes\_AllOlympics\_Medals!I2:O39784,4,0)”



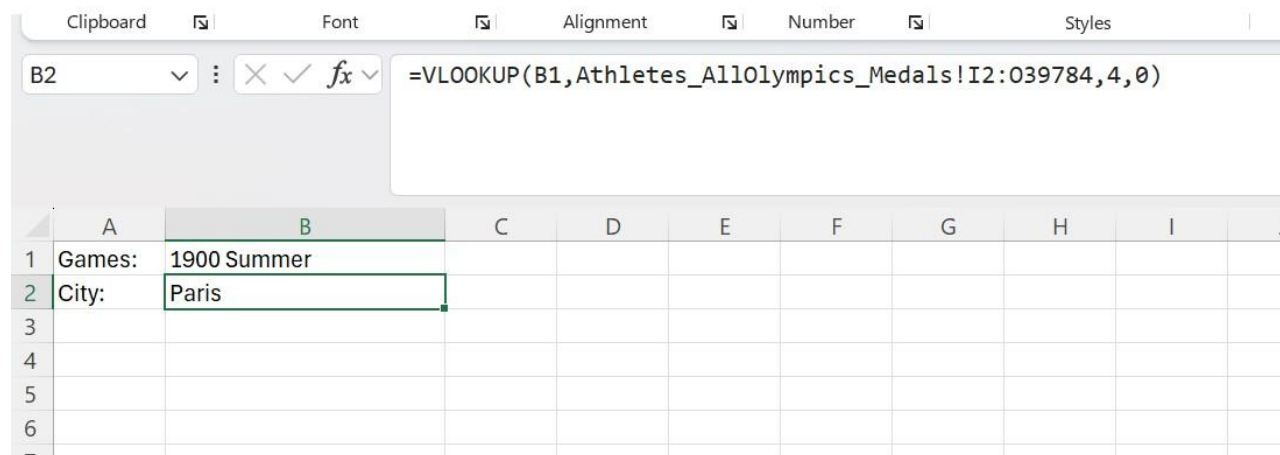
After entering the formula, you will notice that cell B2 says “#N/A” which is an error message that means that the formula can’t find what it has been asked to look for. This makes sense because the cell B1, which should contain the year and season of an olympic game, is blank!

|   | A      | B    |
|---|--------|------|
| 1 | Games: |      |
| 2 | City:  | #N/A |
| 3 |        |      |
| 4 |        |      |
| 5 |        |      |

If we enter the year and season of a game in this dataset then this error message should go away and display the



City instead. So, in cell B1 enter the year and season for the 1900 Summer games (1900 Summer). Then, cell B2 should indicate that these games were held in Paris.



### 3 Conditional Statements

A conditional statement is an if-then statement. That is, if a certain condition is met, do A; if that condition is NOT met, do B. This is often how binary variables are made.

#### Mega Champion Variable

We are interested in identifying mega olympic champions. We are going to create this binary variable using the “if” function. We will say that an athlete is a mega champion if they’ve earned more than the average number of total medals, otherwise, the athlete is not a mega champion.

We are going to name this variable in cell E1 – “Mega Champion.” In cell E2 we are going to enter the formula. This is a function, so it starts with an “=.” The function is called if, so the formula starts “=if(” and should display a helpful pop-up. This function requires 3 inputs: the condition, what to display if the condition is met, and what to display if the condition is not met.

The first input is the condition, which is that total medals for each athlete are greater than or equal to 2 (the average is 1.4). So the formula is now “=if(B2>=2,” with a comma to separate each input. The next input is called “value if true,” so what should this variable equal if cell B2 exceeds or equal cell 2. Because we want this to be a binary variable, the value 1 indicates true. So the formula is now “=if(B2>=2,1,” with another comma. The last input is called “value if false,” so what should this variable equal if cell 2 exceeds cell B2. In binary variables, the value 0 indicates false. So the final formula is “=if(B2>=2,1,0)” and press enter to see the first result.

| B2 |    | : ✖ ✔ <i>fx</i> |     | =if(B2>=2,1,0 |               |                    |
|----|----|-----------------|-----|---------------|---------------|--------------------|
|    | A  | B               | C   | D             | E             | F                  |
| 1  | ID | Total_Medals    | Age | Total_Golds   | Mega_Champion | Mega_Gold_Champion |
| 2  | 4  | 1               |     | 34            | 1             |                    |
| 3  | 15 | 2               |     | 30            |               |                    |
| 4  | 16 | 1               |     | 28            |               |                    |
| 5  | 17 | 5               |     | 28            | 3             |                    |
| 6  | 20 | 8               |     | 20            | 4             |                    |
| 7  | 21 | 1               |     | 27            | 1             |                    |
| 8  | 25 | 1               |     | 24            |               |                    |
| 9  | 29 | 1               |     | 22            |               |                    |
| 10 | 30 | 1               |     | 26            |               |                    |
| 11 | 37 | 1               |     | 23            |               |                    |
| 12 | 38 | 1               |     | 20            |               |                    |
| 13 | 40 | 2               |     | 23            | 1             |                    |
| 14 | 42 | 1               |     | 25            | 1             |                    |
| 15 | 56 | 1               |     | 21            | 1             |                    |
| 16 | 62 | 1               |     | 21            |               |                    |
| 17 | 63 | 1               |     | 30            |               |                    |

Now we want to apply this formula to the rest of the column. To do this, select cell E2 and move the cursor to the bottom right corner of the cell. When the cursor looks like a small, black cross, double click the mouse. This applies the formula until the next blank cell of data.

## 4 Nested Formulas

What if you need to satisfy two conditions? For example, categorical variables with more than two categories would require two conditions. As well, some definitions of binary variables would require two conditions.

Is a mega champion really a mega champion if they never won any gold medals? So, we are interested in making a stricter definition of mega champion – “Mega Gold Champion.” The Mega Gold Champion variable should equal “Mega Gold Champion” if the athlete is a mega champion and also won at least one gold medal, “Regular Olympic Athlete” otherwise.

Start by labeling this variable in cell F1, “Mega Gold Champion”. In cell F2, we will start the formula with “=if(” however we need to specify that we have two conditions. To do this, we will nest another function inside this “if” function. The “And( )” function allows us to list two conditions that both must be true. The formula is now “=if(and(” followed by the two conditions. The two conditions are that the mega champion variable is “1” and the Total\_Golds is not 0. The formula is now “=if(and(E2=1,D2<>0).” The “<>” indicates not equal to. Now that the logical condition is done, we have to enter value if true and value if false like the mega champion variable. However, rather than a binary variable we can use text.

So, if the condition is true the athlete is a mega super champion, otherwise unsuccessful. So the formula should be “=if(and(E2=1,D2<>0), ”Super Mega Champion”, ”Regular Olympic Athlete”).” The text must always be within quotation marks. Press enter and apply the formula to the rest of the column.

D2

:

✖

✓

fx

=if(and(E2=1,D2<>0),"Super Mega Champion","Regular Olympic Athlete")

|    | A  | B            | C   | D           | E             | F                  | G  | H | I |
|----|----|--------------|-----|-------------|---------------|--------------------|--|---|---|
| 1  | ID | Total_Medals | Age | Total_Golds | Mega_Champion | Mega_Gold_Champion | Youthful_Mega_Gold_Champion  |   |   |
| 2  | 4  |              | 1   | 34          | 1             | 0                  | =if(and(E2=1,D2<>0),"Super Mega Champion","Regular Olympic Athlete") |   |   |
| 3  | 15 |              | 2   | 30          |               | 1                  |  |   |   |
| 4  | 16 |              | 1   | 28          |               | 0                  |  |   |   |
| 5  | 17 |              | 5   | 28          | 3             | 1                  |  |   |   |
| 6  | 20 |              | 8   | 20          | 4             | 1                  |  |   |   |
| 7  | 21 |              | 1   | 27          | 1             | 0                  |  |   |   |
| 8  | 25 |              | 1   | 24          |               | 0                  |  |   |   |
| 9  | 29 |              | 1   | 22          |               | 0                  |  |   |   |
| 10 | 30 |              | 1   | 26          |               | 0                  |  |   |   |
| 11 | 37 |              | 1   | 23          |               | 0                  |  |   |   |
| 12 | 38 |              | 1   | 20          |               | 0                  |  |   |   |
| 13 | 40 |              | 2   | 23          | 1             | 1                  |  |   |   |
| 14 | 42 |              | 1   | 25          | 1             | 0                  |  |   |   |

## Nested Conditional Statements

In some cases, you may want to **use more than one if statement within a conditional formula**. In this example, we want to determine which athletes meet the following conditions: 1) a mega or super mega champion, and 2) female. We also want to know which athletes are mega champions and female. Start by labeling this variable in G1, ‘Female\_Mega\_Champions’. In cell G2, we will start the formula with “=if(” however we need to specify again that

|    | A  | B            | C   | D           | E             | F                       | G          | H                              | I | J | K |
|----|----|--------------|-----|-------------|---------------|-------------------------|------------|--------------------------------|---|---|---|
| 1  | ID | Total_Medals | Age | Total_Golds | Mega_Champion | Mega_Gold_Champion      | Sex Binary | Champion                       |   |   |   |
| 2  | 4  | 1            | 34  | 1           | 0             | Regular Olympic Athlete | 0          | 0                              |   |   |   |
| 3  | 15 | 2            | 30  |             | 1             | Regular Olympic Athlete | 0          | 0 Male, Mega or Super Champion |   |   |   |
| 4  | 16 | 1            | 28  |             | 0             | Regular Olympic Athlete | 0          | 0                              |   |   |   |
| 5  | 17 | 5            | 28  | 3           | 1             | Super Mega Champion     | 0          | 0 Male, Mega or Super Champion |   |   |   |
| 6  | 20 | 8            | 20  | 4           | 1             | Super Mega Champion     | 0          | 0 Male, Mega or Super Champion |   |   |   |
| 7  | 21 | 1            | 27  | 1           | 0             | Regular Olympic Athlete | 1          | 1                              |   |   |   |
| 8  | 25 | 1            | 24  |             | 0             | Regular Olympic Athlete | 0          | 0                              |   |   |   |
| 9  | 29 | 1            | 22  |             | 0             | Regular Olympic Athlete | 1          | 1                              |   |   |   |
| 10 | 30 | 1            | 26  |             | 0             | Regular Olympic Athlete | 0          | 0                              |   |   |   |
| 11 | 37 | 1            | 23  |             | 0             | Regular Olympic Athlete | 1          | 1                              |   |   |   |
| 12 | 38 | 1            | 20  |             | 0             | Regular Olympic Athlete | 0          | 0                              |   |   |   |
| 13 | 40 | 2            | 23  | 1           | 1             | Super Mega Champion     | 0          | 0 Male, Mega or Super Champion |   |   |   |
| 14 | 42 | 1            | 25  | 1           | 0             | Regular Olympic Athlete | 0          | 0                              |   |   |   |
| 15 | 56 | 1            | 21  | 1           | 0             | Regular Olympic Athlete | 0          | 0                              |   |   |   |
| 16 | 62 | 1            | 21  |             | 0             | Regular Olympic Athlete | 0          | 0                              |   |   |   |
| 17 | 63 | 1            | 30  |             | 0             | Regular Olympic Athlete | 0          | 0                              |   |   |   |
| 18 | 65 | 1            | 21  |             | 0             | Regular Olympic Athlete | 1          | 1                              |   |   |   |
| 19 | 67 | 1            | 22  |             | 0             | Regular Olympic Athlete | 1          | 1                              |   |   |   |
| 20 | 72 | 1            | 28  | 1           | 0             | Regular Olympic Athlete | 0          | 0                              |   |   |   |
| 21 | 73 | 3            | 23  | 2           | 1             | Super Mega Champion     | 0          | 0 Male, Mega or Super Champion |   |   |   |

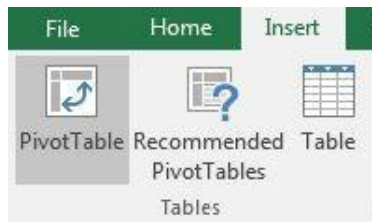
10

## 5 Pivot Tables

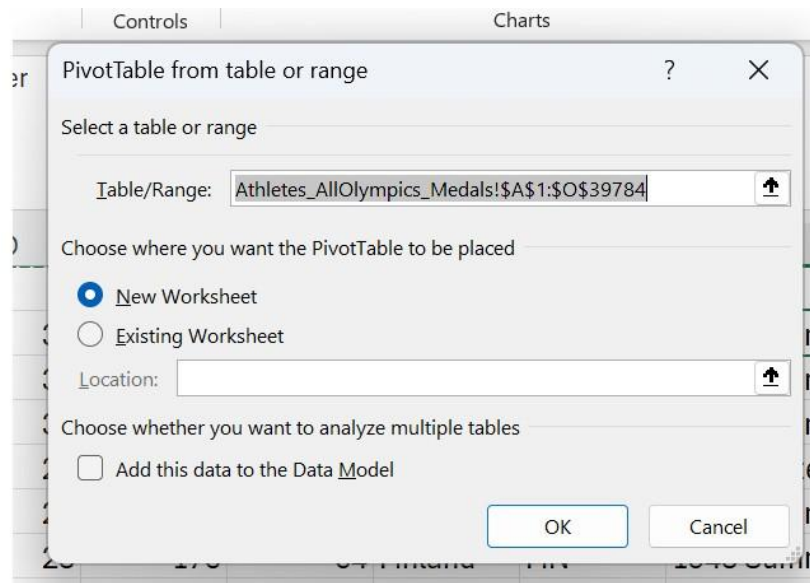
Similar to the built-in functions, Excel can help automate tables.

### Example I

The first step is the click on the pivot table option in the Insert tab.

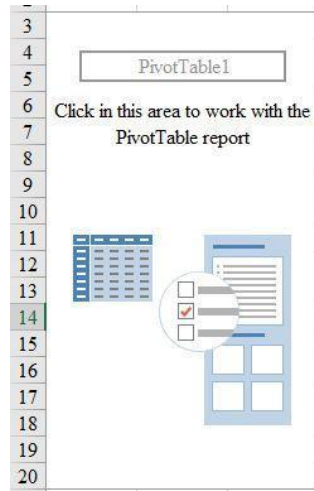


Then the “Create PivotTable” window should pop up where you select the data to make the pivot table. We want the pivot table to be placed in another sheet, so we should click on the option for “New Worksheet.”



Once we have selected data and the location to make the pivot table, we can click “OK.” We will get a blank pivot

table.



On the right of the excel window we could see a variety of options we could choose for the pivot table. We start from the top with the pivot table fields. We could choose different fields to add to our pivot table. These fields are all the column titles from the data we chose. (That is why we want to have clear and informative variable labels, so it is easier for us to make the pivot table.)

PivotTable Fields

Choose fields to add to report:

Search

☐ ID  
☐ Name  
☐ Sex  
☐ Age  
☐ Height

Drag fields between areas below:

Filters

Columns

Rows

Σ Values

☐ Defer Layout Update

Update

In this case, we want Year as the row labels and Season as the column labels. In order to do this we can just drag the fields to the areas below.

**PivotTable Fields** ✕

Choose fields to add to report: ⚙️

Search 🔍

☐ Team  
☐ NOC  
☐ Games  
☒ **Year**  
☒ **Season**

Drag fields between areas below:

|                                  |                                       |
|----------------------------------|---------------------------------------|
| <b>Filters</b><br><div></div>    | <b>Columns</b><br><div>Season ▼</div> |
| <b>Rows</b><br><div>Year ▼</div> | <b>Σ Values</b><br><div></div>        |

☐ Defer Layout Update Update

Now if we look at the pivot table, we have row and column labels displayed.

|    |              |                 |        |             |
|----|--------------|-----------------|--------|-------------|
| 2  |              |                 |        |             |
| 3  |              | Column Labels ▼ |        |             |
| 4  | Row Labels ▼ | Summer          | Winter | Grand Total |
| 5  | 1896         |                 |        |             |
| 6  | 1900         |                 |        |             |
| 7  | 1904         |                 |        |             |
| 8  | 1906         |                 |        |             |
| 9  | 1908         |                 |        |             |
| 10 | 1912         |                 |        |             |
| 11 | 1920         |                 |        |             |
| 12 | 1924         |                 |        |             |
| 13 | 1928         |                 |        |             |
| 14 | 1932         |                 |        |             |
| 15 | 1936         |                 |        |             |
| 16 | 1948         |                 |        |             |
| 17 | 1952         |                 |        |             |
| 18 | 1956         |                 |        |             |

The next step would be to choose a value that we want to summarize. In this case, we want to summarize total medals. Thus we drag “Medal” down to the Values area.



**PivotTable Fields** ▼ ✕

Choose fields to add to report: ⚙️ ▼

Search 🔍

☐ City  
☐ Sport  
☐ Event  
☒ **Medal**  
[More Tables...](#)

Drag fields between areas below:

| Filters | Columns  |
|---------|----------|
|         | Season ▼ |

| Rows   | Values           |
|--------|------------------|
| Year ▼ | Count of Medal ▼ |

You can copy and paste pivot tables to format them for a report. Or you could create a chart!

|    |                |               |        |             |
|----|----------------|---------------|--------|-------------|
| 3  | Count of Medal | Column Labels |        |             |
| 4  | Row Labels     | Summer        | Winter | Grand Total |
| 5  | 1896           | 143           |        | 143         |
| 6  | 1900           | 604           |        | 604         |
| 7  | 1904           | 486           |        | 486         |
| 8  | 1906           | 458           |        | 458         |
| 9  | 1908           | 831           |        | 831         |
| 10 | 1912           | 941           |        | 941         |
| 11 | 1920           | 1308          |        | 1308        |
| 12 | 1924           | 832           | 130    | 962         |
| 13 | 1928           | 734           | 89     | 823         |
| 14 | 1932           | 647           | 92     | 739         |
| 15 | 1936           | 917           | 108    | 1025        |
| 16 | 1948           | 852           | 135    | 987         |
| 17 | 1952           | 897           | 136    | 1033        |
| 18 | 1956           | 893           | 150    | 1043        |
| 19 | 1960           | 911           | 147    | 1058        |
| 20 | 1964           | 1029          | 186    | 1215        |
| 21 | 1968           | 1057          | 199    | 1256        |
| 22 | 1972           | 1215          | 199    | 1414        |
| 23 | 1976           | 1320          | 211    | 1531        |
| 24 | 1980           | 1384          | 218    | 1602        |

< > Sheet3 Athletes\_AllOlympics\_Medals

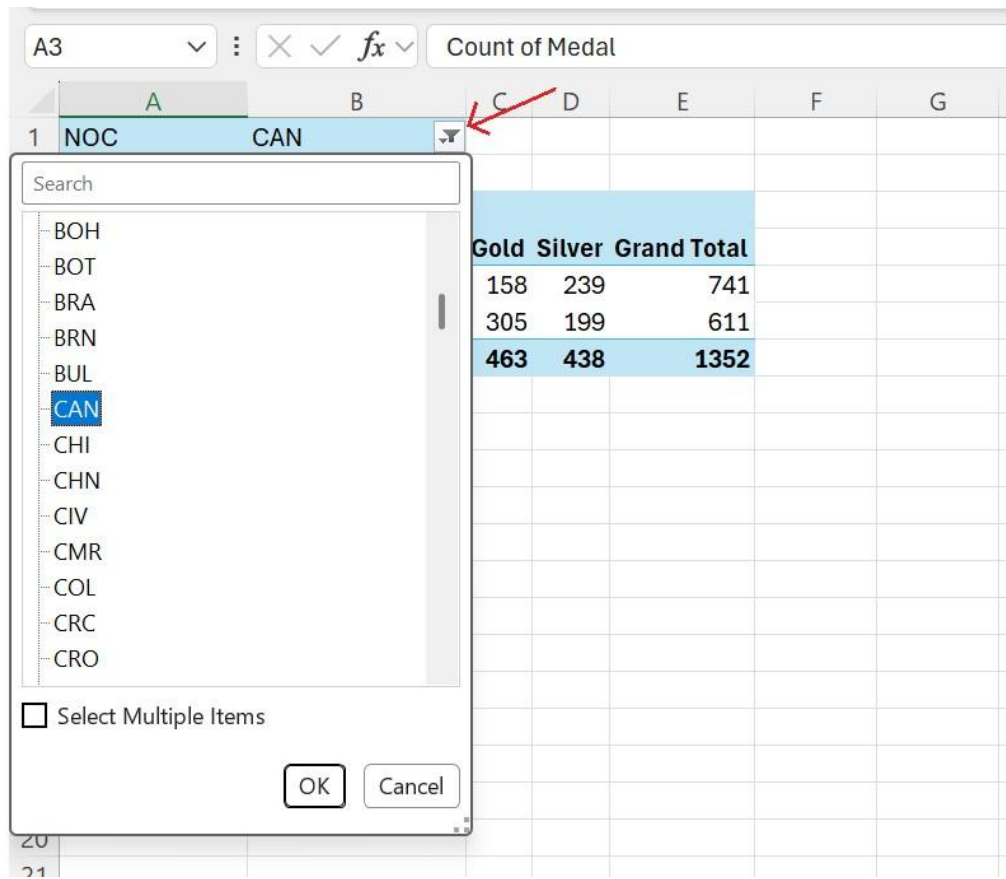
Now try to change the values to average age of athletes by season for each year! (Hint: to change the calculation of the values field, click the drop-down for Count of Age then click “Value Field Settings”, then select Average under the Summarize value fields by: list.

## Example II

You can also continuously edit and change your pivot table. Let's create a pivot table to compare the number of medals by medal category and season (winter vs. summer). Let's make it trickier and show this table just for team Canada.

In this case, we want Season as the row labels and Medal as the column labels. Now we simply want to know how many observations fall into each category. To select data just for team Canada, add the NOC field to the filter quadrant (the Team variable is a bit messy and has several different entries for Canada).

Then select the little arrow/drop-down next to NOC above the table and select just CAN and click OK.



The Pivot Table should look like the following figure.

|    |                |               |      |        |             |   |
|----|----------------|---------------|------|--------|-------------|---|
| A3 |                |               |      |        |             |   |
|    | A              | B             | C    | D      | E           | F |
| 1  | NOC            | CAN           |      |        |             |   |
| 2  |                |               |      |        |             |   |
| 3  | Count of Medal | Column Labels |      |        |             |   |
| 4  | Row Labels     | Bronze        | Gold | Silver | Grand Total |   |
| 5  | Summer         | 344           | 158  | 239    | 741         |   |
| 6  | Winter         | 107           | 305  | 199    | 611         |   |
| 7  | Grand Total    | 451           | 463  | 438    | 1352        |   |
| 8  |                |               |      |        |             |   |

To rearrange the columns so they are in a more intuitive order (i.e., Gold, then Silver, then Bronze) click on cell C4 (Gold). The cell with Gold should have a green outline. Place the cursor on the border line between cell C4 and B4. The cursor should appear as a black cross with arrows. A thin vertical green line should appear between the columns. Grab/Click and hold the cursor on that line and drag the column to the left of Bronze. Repeat for silver.

|    |                |               |      |        |             |   |   |
|----|----------------|---------------|------|--------|-------------|---|---|
| C4 |                |               |      |        |             |   |   |
|    | A              | B             | C    | D      | E           | F | G |
| 1  | NOC            | CAN           |      |        |             |   |   |
| 2  |                |               |      |        |             |   |   |
| 3  | Count of Medal | Column Labels |      |        |             |   |   |
| 4  | Row Labels     | Bronze        | Gold | Silver | Grand Total |   |   |
| 5  | Summer         | 344           | 239  | 741    |             |   |   |
| 6  | Winter         | 107           | 305  | 199    | 611         |   |   |
| 7  | Grand Total    | 451           | 463  | 438    | 1352        |   |   |
| 8  |                |               |      |        |             |   |   |
| 9  |                |               |      |        |             |   |   |

Once the columns are in order, it should look like:

|   |                |               |        |        |             |   |
|---|----------------|---------------|--------|--------|-------------|---|
|   | A              | B             | C      | D      | E           | F |
| 1 | NOC            | CAN           |        |        |             |   |
| 2 |                |               |        |        |             |   |
| 3 | Count of Medal | Column Labels |        |        |             |   |
| 4 | Row Labels     | Gold          | Silver | Bronze | Grand Total |   |
| 5 | Summer         | 158           | 239    | 344    | 741         |   |
| 6 | Winter         | 305           | 199    | 107    | 611         |   |
| 7 | Grand Total    | 463           | 438    | 451    | 1352        |   |
| 8 |                |               |        |        |             |   |
| 9 |                |               |        |        |             |   |