

Visualizing data with basic

Analyzing data

Exercise: Using table references

Note: You can pass this course and all graded assessments without access to the downloadable version of Excel.

How to complete this exercise

Work Smarter with Microsoft Excel > Module 3 > Exercise: Using table references

To complete this exercise, you will need access to Microsoft 365 Excel.

Note: Keep in mind that if you are using free Office for the web or another version of the Microsoft 365 Excel application some features covered in this exercise may not be available.

If you do not have access to Microsoft 365 Excel, you can use Free Office for the web. This version of Office allows you to view and edit files in apps like Word, Excel, and PowerPoint. This free service is available to anyone with a Microsoft account.

Access Microsoft Account

Log in to your Microsoft account. 🗹 Type the email, phone number, or Skype sign-in that you use for other services (Outlook, Office, etc.), then select Next. If you don't have a Microsoft account, you can select No account?

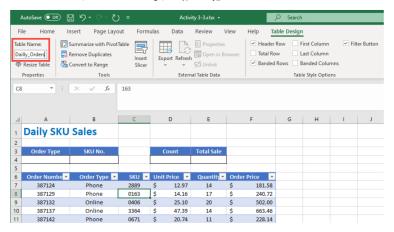
Let's get started!

You have been asked to create a workbook to analyze the daily SKU sales, by SKU number, and by order type. To complete this task, you decide to use database functions with structured references.

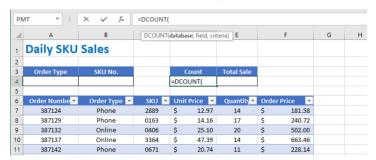
1. Click on the link below to open the Microsoft Excel exercise document you can use to complete this exercise,

Exercise: Using table references 🗵

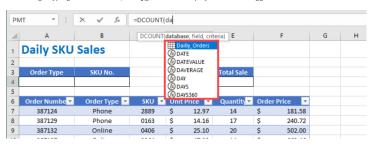
2. First select the table, then click **Table Design**, and type "Daily_Orders" in the Table Name field:



3. Press Enter to update the table name, then select cell D4 and type "=DCOUNT(" in the Formula Bar:

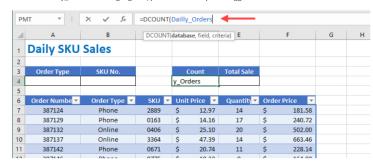


4. Now begin typing the table name, "**Daily_Orders**" to display table name suggestions:

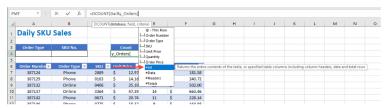




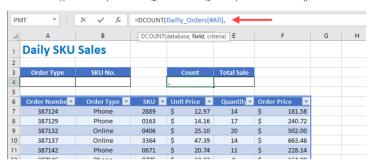
5. With the Daily_Orders table highlighted, press **Tab** to accept the suggestion:



6. Next, type an open square bracket ([) to show suggestions for table elements. Use the arrow key to select "#All" from the list, then press **Tab** to accept:



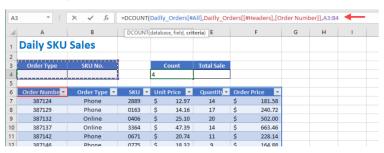
7. You can now type a closed square bracket (]) and a comma (,) to complete the database argument:



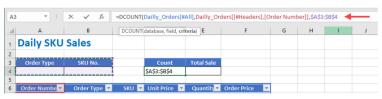
8. To define the field argument, click the table header "**Order Number**." Excel enters the structured reference



9. To define the criteria argument, and complete the formula, first type a comma (,) to move to the next argument, then select the range **A3:B4**:



10. Press the **F4** key to make this an absolute reference, then press **Enter**:

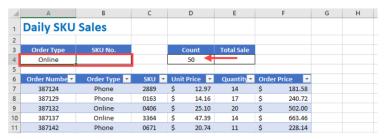


7	387124	Phone	2889	\$ 12.97	14	\$ 181.58
8	387129	Phone	0163	\$ 14.16	17	\$ 240.72
9	387132	Online	0406	\$ 25.10	20	\$ 502.00
10	387137	Online	3364	\$ 47.39	14	\$ 663.46
11	387142	Phone	0671	\$ 20.74	11	\$ 228.14

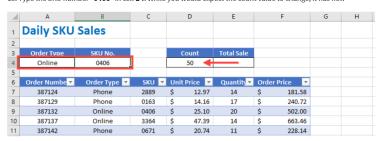
11. You will see that the formula returns the value 99, as there are 99 rows in the table, and no criteria have been entered:



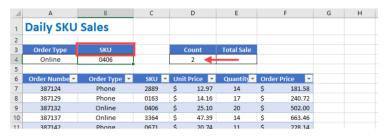
12. Now type "Online" in cell A4. You will see that 50 of the order types were Online:



13. Type the SKU number "0406" in cell B4. While you would expect the count value to change, it has not:



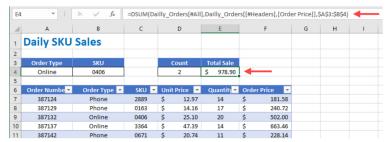
14. This is because the heading in cell B3, "SKU No.", does not match the column name in your table. Change the text in cell B3 to "SKU" to match the column name. Now you will see that the count value has changed:



15. You can now select cell **E4** and follow the same steps, but this time use the **DSUM** function and use the table header "**Order Price**" for the field argument:

=DSUM(Dailly_Orders[#All],Dailly_Orders[[#Headers],[Order Price]],\$A\$3:\$B\$4)

16. You will now see the sum of orders where SKU 0406 had an order type of Online:



exercise.

18.Now, you can check out an example of a completed document in the link below:

Completed exercise: Using table references

[2]

Mark as completed