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## Course challenge

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### 1. Scenario 1, Questions 1-7

0 / 1 point

For the past six months, you have been working for a direct-mail marketing firm as a junior marketing analyst. Direct mail is advertising material sent to people through the mail. These people can be current or prospective customers, clients, or donors. Many charities depend on direct mail for financial support.

Your company, Directly Dynamic, creates direct-mail pieces with its in-house staff of graphic designers, expert mail list services, and on-site printing. Your team has just been hired by a local nonprofit, Food Justice Rock Springs. The mission of Food Justice Rock Springs is to eliminate food deserts by establishing local gardens, providing mobile pantries, educating residents, and more. Click below to read the email from Tayen Bell, vice president of marketing and outreach.

 **C5 Course Challenge, Email From Tayen Bell, Directly Dynamic .pdf**  
PDF File



You begin by reviewing the dataset. To use the template for this dataset, click the link below and select "Use Template."

Link to template: [Dynamic Dataset](#)

Or, if you don't have a Google account, download the file directly from the attachment below.

Dynamic Dataset.xlsx

The client has asked you to send two separate mailings: one to people within 50 miles of Rock Springs; the other to anyone outside that area. So, to research each donor's distance from the city, you first need to find out where all of these people live.

You could scroll through 209 rows of data, but you know there is a more efficient way to organize the cities.

**Which of the following tools will enable you to sort your spreadsheet by city (Column K) in ascending order?**

- ☐ Sort Sheet by Column K from Z to A
- ☒ Sort Range by Column K from A to Z
- ☐ Sort Range by Column K from Z to A
- ☐ Sort Sheet by Column K from A to Z



**Incorrect**

Review [the section on sorting](#) for a refresher.

### 2. Scenario 1, continued

1 / 1 point

You notice that many cells in the city column, Column K, are missing a value. So, you use the zip codes to research the correct cities. Now, you want to add the cities to each donor's row. However, you are concerned about making a mistake, such as a spelling typo.

**What spreadsheet tool allows you to control what can and cannot be entered in your worksheet in order to avoid typos?**

- ☐ VLOOKUP
- ☐ Find
- ☒ Data validation
- ☐ List



**Correct**

Data validation allows you to control what can and cannot be entered in your worksheet in order to avoid typos. It does this by adding drop-down lists with predetermined options, such as each city name.

### 3. Scenario 1, continued

1 / 1 point

Now, you decide to address Tayen's request to include a handwritten note in the direct-mail piece for anyone who gave at least \$100 last year.

**Which of the following spreadsheet tools will enable you to change how cells appear if they contain a value of**

\$100 or more?

- ☐ The MAX function
- ☒ Conditional formatting
- ☐ Data validation
- ☐ The COUNTA function

✓ **Correct**

To change how cells appear, use conditional formatting. Choose to format cells if they are greater than or equal to 100.

4. **Scenario 1, continued**

1 / 1 point

At this point, you notice that the information about state and zip code is in the same cell. However, your company's mailing list software requires states to be on a separate line from zip codes.

**What function do you use to move the 5-digit zip code in cell L2 into its own column?**

- ☐ =LEFT(L2,5)
- ☐ =RIGHT(5,L2)
- ☒ =RIGHT(L2,5)
- ☐ =LEFT(5,L2)

✓ **Correct**

To move the 5-digit zip codes in Column L into their own column, use =RIGHT(L2,5).

5. **Scenario 1, continued**

1 / 1 point

Next, you duplicate your dataset twice using the Sheet Menu. You rename the first sheet Donation Form List, and you remove the cities that are further than 50 miles from Rock Springs. You rename the second sheet Postcard List, and you remove the cities that are within 50 miles of Rock Springs.

Then, you import these datasets into your company's mailing list database. In a mailing list database, you create two tables: Donation\_Form\_List and Postcard\_List. You decide to clean the Donation\_Form\_List first.

Your company's mailing list software requires units to be on the same line as street addresses. However, they are currently in two separate columns (street\_address and unit).

**What portion of your SQL statement will instruct the database to combine these two columns into a new column called "address"?**

- ☒ CONCAT(street\_address, " to ", unit) AS address
- ☐ CONCAT(street\_address to unit) AS address
- ☐ JOIN(street\_address to unit) AS address
- ☐ JOIN(street\_address, " to ", unit) AS address

✓ **Correct**

The portion of your SQL statement used to instruct the database to combine these two columns into a new column called "address" is CONCAT(street\_address, " to ", unit) AS address.

6. **Scenario 1, continued**

1 / 1 point

Your database contains people who live in many areas of Wyoming. However, it's important to align your in-house data with the data from Food Justice Rock Springs. You also need to separate your data into the two lists: Donation\_Form\_List and Postcard\_List. They will be based on each city's distance from Rock Springs.

**What SQL function do you use to select all data from the Donation\_Form\_List organized by zip code?**

- ☐ SEQUENCE
- ☐ ORGANIZE
- ☐ ARRANGE BY
- ☒ ORDER BY

✓ **Correct**

To select all data from the Donation\_Form\_List organized by zip code, you use the ORDER BY function. The ORDER BY function sorts results returned in a query.

7. **Scenario 1, continued**

1 / 1 point

You finish cleaning your datasets, so you decide to review Tayer's email one more time to make sure you completed the task fully. It's a good thing you checked because you forgot to identify people who have served on the board of directors or board of trustees. She wants to write them a thank-you note, so you need to locate them in the database.

To retrieve only those records that include people who have served on the board of trustees or on the board of directors, you use the WHERE function. The syntax is:

```
SELECT *
FROM Donation_Form_List
WHERE Board_Member = "TRUE" AND Trustee = "TRUE"
```

- ☐ True
- ☒ False

✓ **Correct**

To retrieve only those records that include people who have served on the board of trustees or on the board of directors, the syntax must include "OR." Including "AND" will only retrieve records of people who served on both boards. The syntax is:

```
SELECT *
FROM Donation_Form_List
WHERE Board_Member = "TRUE" OR Trustee = "TRUE"
```

8. Scenario 2, Questions 8-13

1 / 1 point

Your company's direct-mail campaign was very successful, and Food Justice Rock Springs has continued partnering with Directly Dynamic. One thing you've been working on is assigning all donors identification numbers. This will enable you to clean and organize the lists more effectively.

Meanwhile, another team member has been creating a prospect list that contains data about people who have indicated interest in getting involved with Food Justice Rock Springs. These people are also assigned a unique ID. Now, you need to compare your donor list with the dataset in your database and collect certain data from both.

What SQL function will return all records from the left table and only the matching records from the right?

- ☒ LEFT JOIN
- ☐ INNER JOIN
- ☐ RIGHT JOIN
- ☐ OUTER JOIN

✓ **Correct**

A LEFT JOIN function will return all records from the left table and only the matching records from the right.

9. Scenario 2, continued

1 / 1 point

Your next task is to identify the average contribution given by donors over the past two years. Tayen will use this information to set a donation minimum for inviting donors to an upcoming event.

You have performed the calculations for 2019, so now you move on to 2020. To return average contributions in 2020 (contributions\_2020), you use the AVG function. You use the following section of a SQL query to find this average and store it in the AvgLineTotal variable.

```
AVG (contributions_2020) AS AvgLineTotal
```

- ☒ True
- ☐ False

✓ **Correct**

To return average contributions in 2020, the correct portion of the SQL query is:

```
AVG (contributions_2020) AS AvgLineTotal
```

10. Scenario 2, continued

1 / 1 point

Now that you provided her with the average donation amount, Tayen decides to invite 50 people to the grand opening of a new community garden. You return to your New Donor List spreadsheet to determine how much each donor gave in the past two years. You will use that information to identify the 50 top donors and invite them to the event.

What is the correct syntax to add the contribution amounts in cells O2 and P2?

- ☐ =SUM("O2,P2")
- ☐ =SUM(O2\*P2)
- ☒ =SUM(O2,P2)
- ☐ =SUM(O2/P2)

✓ **Correct**



**Correct**

To add cells O2 and P2, use the function =SUM(O2,P2). You can also use the formula =O2+P2.

11. Scenario 2, continued

1 / 1 point

Tayen informs you that she's thinking about inviting anyone who donated at least \$100 in 2018, as well. However, she only has five open spaces. She asks you to report how many people gave at least \$100 so she can determine if they can also be invited to the event.

**Which spreadsheet function do you use to count how many donations of \$100 or greater appear in Column O (Contributions 2018)?**

- ☒ COUNTIF
- ☐ TOTAL
- ☐ SUMIF
- ☐ MAX



**Correct**

To count how many donations of \$100 or greater appear in Column Q, you use the COUNTIF function. The correct syntax is =COUNTIF(O2:Q210,">=100").

12. Scenario 2, continued

1 / 1 point

The community garden grand opening was a success. In addition to the 55 donors Food Justice Rock Springs invited, 20 other prospects attended the event. Now, Tayen wants to know more about the donations that came in from new prospects compared to the original donors.

**What is the section of a SQL query that will calculate the percentage of contributions from prospects?**

- ☐ (Total\_prospects \* Total\_donors / 100) AS Prospects\_Percent
- ☐ ("Total\_prospects", "Total\_donors" \* 100) AS Prospects\_Percent
- ☒ (Total\_prospects / Total\_donors \* 100) AS Prospects\_Percent
- ☐ (Total\_prospects + Total\_donors = 100) AS Prospects\_Percent



**Correct**

To identify the percentage of contributions from prospects, the correct query is:

```
(Total_prospects / Total_donors * 100) AS Prospects_Percent
```

13. Scenario 2, continued

1 / 1 point

Your team creates a highly effective prospects list for Food Justice Rock Springs. After a few months, many of these prospects become donors. Now, Tayen wants to know the top three cities in which these new donors live. She will use that information to determine if it's still true that people who live closer to Rock Springs are more likely to donate.

**Which SQL query will retrieve the number of donors in each city, sorted high to low?**

- ☐

```
SELECT COUNT(DonorID), City
FROM new_donor_list
GROUP BY COUNT
ORDER BY City (DonorID) DESC
```
- ☒

```
SELECT COUNT(DonorID), City
FROM new_donor_list
GROUP BY City
ORDER BY COUNT(DonorID) DESC
```
- ☐

```
SELECT COUNT(DonorID), City
FROM new_donor_list
GROUP BY City
ORDER BY COUNT(DonorID) ASC
```
- ☐

```
SELECT City(DonorID), City
FROM new_donor_list
GROUP BY COUNT
ORDER BY City(DonorID) ASC
```



**Correct**

To retrieve the number of donors in each city, sorted high to low, the correct SQL query is:

```
SELECT COUNT(DonorID), City
FROM new_donor_list
GROUP BY City
```

ORDER BY COUNT(DonorID) DESC