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Course challenge

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1. **Scenario 1, Questions 1-7**   1 / 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	Open 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 File	Download file ↓

   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 functions will enable you to sort your spreadsheet by city (Column K) in ascending order?

   ○ =SORT(A2:R210, 11, ASC)

   ○ =SORT(A2:R210, K, TRUE)

   ⦿ =SORT(A2:R210, 11, TRUE)

   ○ =SORT(A2:R210, K, ASC)

   ✓ **Correct**
   To sort your spreadsheet by city in ascending order, use the SORT function syntax =SORT(A2:R210, 11, TRUE). You can also select A2-R210, then use the drop-down menu to Sort Sheet by Column K from A to Z.

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 error.

   What spreadsheet tool can you use to add a drop-down list with predetermined options for each city name?

   ○ Find

   ○ VLOOKUP

   ○ List

   ⦿ Data validation

   ✓ **Correct**
   You use data validation to add drop-down lists with predetermined options for each city name. This allows you to control what can and cannot be entered in your worksheet.

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?

◯ Data validation

◯ The MAX function

◯ The COUNTA function

⦿ Conditional formatting

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

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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.

To move the 5-digit zip code in cell L2 into its own column, you use the function =LEFT(L2,5).

◯ True

⦿ False

> ✓ **Correct**
>
> To move the 5-digit zip codes in Column L into their own column, you use the RIGHT function: =RIGHT(L2,5).

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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).

Which SQL function will instruct the database to combine two columns into a new column called "address"?

⦿ CONCAT

◯ COALESCE

◯ CAST

◯ COMBINE

> ✓ **Correct**
>
> The CONCAT function is used to instruct a database to combine two columns into a new column called "address."

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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?

⦿ ORDER BY

◯ ARRANGE BY

◯ ORGANIZE

◯ SEQUENCE

> ✓ **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 Tayen'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, what clause do you include in your query?

○ WHERE Board_Member = TRUE AND Trustee = TRUE

⊙ WHERE Board_Member = "TRUE" OR Trustee = "TRUE"

○ WHERE Board_Member = "TRUE" AND Trustee = "TRUE"

○ WHERE Board_Member = TRUE, Trustee = TRUE

✓ **Correct**

To retrieve only those records that include people who have served on the board of trustees or on the board of directors, the correct query 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 combine RIGHT and LEFT JOIN to return all matching records in both tables?

○ RIGHT JOIN

○ LEFT JOIN

⊙ OUTER JOIN

○ INNER JOIN

✓ **Correct**

An OUTER JOIN function will combine RIGHT and LEFT JOIN to return all matching records in both tables.

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 start with 2019. To return average contributions in 2019 (contributions_2019), you use the AVG function. What portion of your SQL statement will instruct the database to find this average and store it in the AvgLineTotal variable?

○ AVG("contributions_2019") AS AvgLineTotal

○ AVG("contributions_2019") IN AvgLineTotal

⊙ AVG(contributions_2019) AS AvgLineTotal

○ AVG(contributions_2019) = "AvgLineTotal"

✓ **Correct**

To return average contributions in 2019, the correct portion of the SQL query is:

AVG(contributions_2019) 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)

11. **Scenario 2, continued**

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)?

○ SUMIF

○ TOTAL

○ MAX

◉ COUNTIF

✓ **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:O210,">=100").

12. **Scenario 2, continued**

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.

This SQL query can be used to identify the percentage of contributions from prospects compared to total donors:

```sql
SELECT
event_contributions,
Total_donors,
Total_prospects,
(Total_prospects / Total_donors * 100) AS Prospects_Percent
FROM contributions_data
```

◉ True

○ False

✓ **Correct**

The correct query is:

```sql
SELECT
event_contributions,
Total_donors,
Total_prospects,
(Total_prospects / Total_donors * 100) AS Prospects_Percent
FROM contributions_data
```

13. **Scenario 2, continued**

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?

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

○
```sql
SELECT COUNT(DonorID), City
FROM new_donor_list
GROUP BY COUNT
ORDER BY City (DonorID) DESC
```

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

◉
```sql
SELECT COUNT(DonorID), City
FROM new_donor_list
GROUP BY City
ORDER BY COUNT(DonorID) DESC
```

✓ **Correct**

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

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

✓ **Correct**

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

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