

Course challenge

- Reading: Glossary: Terms and definitions
- View: Get ready for the course challenge
- View: Course challenge
- View: Congratulations
- Reading: Getting started...

0 Congratulations! You passed!

Grade received **Course challenge**

To pass 50% or higher

Grade for progress is 28%

Go to next item


Review Learning Objectives

1. Scenario 1, questions 1-5


1 / 1 point

You are a data analyst at a retail products company. Your company is hosting a project kick-off meeting with a new client, **Meer-Kitty Interiors**. The people involved are reviewing their goals for the year, assessing any questions, and making **data-driven decisions** every 24 hours.

Before the meeting you review the About Us tab on their website and their business plan, listed below:

 Meer-Kitty Interiors Design About Us Page.pdf

PDF file

 Meer-Kitty Interiors Design Business Plan.pdf

PDF file

Like

Dislike

Report an issue

Your grade 100%

View Feedback

We keep your highest score


Meer-Kitty Interiors Design has two goals. They want to expand their online audience, which means getting their content to be visible more and earlier. They decide to consider the idea about indoor gardening.

To use the template for this survey feedback, click the link below and select "Use Template."

Link to template: [SQL-Survey-Feedback-17](#)

OR

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

 Kitty Survey Feedback - Meer-Kitty survey feedback

CSV file

When you refer to the **Meer-Kitty survey feedback** file, you are pleased to find that the available data is aligned to the business objective. However, you do come across about confidence level for this type of survey and learn that you need at least 120 unique responses for the survey results to be useful. Therefore, the dataset has two limitations. First, there are only 90 responses, second, Meer-Kitty expects, like all the completed the survey 21 times.

As the survey has two limitations and responses duplicates that are standing results, you decide to repeat the survey to obtain a new, improved dataset. What is your first step?

- ☐ Find a survey tool that only allows someone to complete the survey once.
- ☐ Write new, improved survey questions.
- ☐ Merge all of the data from the current, flawed survey.
- ☒ Talk with stakeholders, explain the new timeline, and ask for approval.
- ☐ Connect.

Correct: Before repeating the survey, it's necessary to talk with stakeholders, explain the new timeline, and ask for approval.

2. Scenario 1 continued

1 / 1 point

During the meeting, you also learn that Meer-Kitty videos are hosted on their website. For each product offered, there is an accompanying video for customers to learn more. Its main view for a video suggests greater consumer interest.

Your goal is to identify which videos are most popular, so Meer-Kitty knows what topics to explore in the future. Unfortunately, Meer-Kitty has just five months of data available because they only recently purchased the videos on their site.

Without enough data to identify long-term trends about the video subjects that people prefer, what are your available options? Select all that apply.

- ☐ Move ahead with the data you have to determine the top video subjects.
- ☐ Search the videos and see you get noticed to identify which are most successful.
- ☒ Talk with Meer-Kitty stakeholders and ask to adjust the objective.

Correct: Without enough data to identify long-term trends, one option is to talk with stakeholders and ask to adjust the objective. You could also ask to wait for more data and provide an updated timeline.

Correct: Talk to wait for more data and provide Meer-Kitty with an updated timeline.

Correct: Without enough data to identify long-term trends, one option is to talk with stakeholders and ask to adjust the objective. You could also ask to wait for more data and provide an updated timeline.

3. Scenario 1 continued

1 / 1 point

Now that you've identified some limitations with Meer-Kitty's data, you want to communicate your concerns to stakeholders. In addition to confirming video trend data, your main concern with the indoor plant survey is that the data isn't representative of the population as a whole.

Clearly, one particular respondent, the supervisor, is overrepresented. What does this situation describe?

- ☐ Confidence level
- ☐ Range of error
- ☐ Statistical significance
- ☒ Sampling bias
- ☐ Connect

Correct: This situation describes sampling bias. Sampling bias occurs when a sample isn't representative of the population as a whole.

4. Scenario 1 continued

1 / 1 point


The stakeholders understand your concerns and agree to repeat the indoor plant survey. In a few weeks, you have a much better dataset with more than 120 responses and no duplicates.

To use the template for the survey feedback, click the link below and select "Use Template."

Link to template: [SQL-Survey-Feedback-17](#)

OR

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

 Kitty Survey Feedback - New Meer-Kitty survey feedback

CSV file

If you are using the template, please refer to the **New Meer-Kitty survey feedback** tab located at the bottom of the page. You notice that questions 4 and 5 are dependent on the respondent's answer to question 3. So, you need to determine how many people answered "No" to question 3. How can you find the number of people who answered "No" to question 3? That way, you will know if questions 4 and 5 have any value.

You decide to use a spreadsheet function that changes how cells appear when they meet a certain value - in this case, the word "No." You are using HLOOKUP.

- ☐ True
 - ☐ False
 - ☒ Connect
- Correct: To change how cells appear when they meet a certain value, use conditional formatting.

5. Scenario 1, continued

1 / 1 point

You continue cleaning the data. You use tools such as remove duplicates and COUNTIF to ensure the dataset is complete, correct, and relevant to the problem you're trying to solve. Then, you complete the verification and reporting processes to share the details of your data-cleaning effort with your team.

While reviewing, your team notes one aspect of data cleaning that would improve the dataset even more. They point out that the new survey also has a new question in Column G: "What are your favorite indoor plant colors?"

This was a free response question, so respondents typed in their answers. Some people included multiple different colors of plants. In order to determine which colors are most popular, it will be necessary to put each color in its own cell.

What spreadsheet function enables you to put each of the colors in Column G into a new, separate cell?


- ☒ SPLIT
- ☐ Split
- ☐ MID
- ☐ Extract
- ☐ Connect

Correct: To put each of the colors in Column G into a new, separate cell, use SPLIT. SPLIT is a spreadsheet function that divides text around a specified character and puts each fragment into a new, separate cell.

6. Scenario 1, questions 6-10

1 / 1 point

You're completing the project and are interviewing for a junior data scientist position. The job is at Spalte Market Research, a company that analyzes market conditions using customer surveys and other research methods. The detailed job description can be found below.

 CM 8 Spalte Market Research Job Description.pdf

PDF file

So far, you've had a phone interview with a recruiter and you've secured a second interview with the 8 Spalte team. The recruiter's email can be found below.

 CM 8 Email from Recruiter.pdf

PDF file

You arrive 10 minutes early for your interview. Soon, you are escorted into a conference room, where you meet Jade Choi, the data science lead. After welcoming you, the behavioral interview begins.

For your first question, your interviewer wants to learn about your experience with spreadsheets. She says, "Sometimes the team needs data that is stored in different spreadsheets. So, we use spreadsheet functions that let us combine the data we need."

There is a spreadsheet function that allows a data analyst to search for a value in the first column of a given range and returns the value of a specified cell in the row in which it is found. What function allows you to complete these tasks?

- ☒ HLOOKUP
- ☐ COUNTIF
- ☐ RETURN
- ☐ SEARCH
- ☐ Connect

Correct: HLOOKUP searches for a value in the first column of a given range and returns the value of a specified cell in the row in which it is found.

7. Scenario 2, continued

1 / 1 point

Next, your interviewer explains to know more about your understanding of tools that work in both spreadsheets and SQL queries. She explains that the data has more reviews from customer surveys sometimes many duplicate entries.

She asks: Spreadsheets have a great tool for that called remove duplicates. But when writing a SQL query, what command should you include in your SELECT statement to remove duplicates?

- ☒ DISTINCT
- ☐ DIFFERENT
- ☐ DISCRETE
- ☐ DIVERGE
- ☐ Connect

Correct: To remove duplicates in a SQL query, include DISTINCT in your SELECT statement.

8. Scenario 2, continued

1 / 1 point

Now, your interviewer explains that the dataset usually works with very large amounts of customer survey data. After reviewing the data, they import it into a SQL table. But sometimes, the raw dataset imports incorrectly and they need to change the format.

She asks: What function would you use to convert data in a SQL table from one datatype to another?

- ☐ CHANGE
- ☐ CONVERT
- ☐ CONVERT
- ☒ CAST
- ☐ Connect

Correct: The CAST function is used to convert data in a SQL table from one datatype to another.

9. Scenario 2, continued

1 / 1 point

Next, your interviewer explains that one of their clients is an online retailer that needs to create product numbers for each inventory. They have done this by combining the item name for product number, manufacturing date, and color.

She asks: You encountered a situation where you wanted to add strings together to create new text strings, which SQL function would you use?

- ☐ CREATE
- ☒ CONCAT
- ☐ CONJURE
- ☐ CONJURE
- ☐ Connect

Correct: To add strings together to create new text strings, use the CONCAT function.

10. Scenario 2, continued

1 / 1 point

For your last question, your interviewer explains that her team often uses the TRIM function when writing SQL queries.

She asks: What is the TRIM function used for in SQL?

- ☐ To eliminate the values
- ☐ To return the smallest number, value from a list
- ☐ To shorten the list of results
- ☒ To eliminate extra leading or trailing spaces
- ☐ Connect

Correct: The TRIM function is used to eliminate extra leading or trailing spaces.