

GSynergy Power BI Challenge

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Introduction

Thank you for your interest in advancing your career at GSynergy. We look forward to a productive and insightful interview process that informs both you and us if we are going to be a good fit for helping our clients build insightful BI dashboards and reports.

We are a fast paced, high productivity team, where all our developers have high level of autonomy and ownership. We therefore require that all our teammates have strong development and communication skills.

The following challenge is meant to assess your

1. foundational abilities in using Power BI
2. Abilities to build pixel perfect visualizations using brief textual requirements as is commonplace in fast paced projects
3. Ability to communicate what you have built

If you have the appropriate level of proficiency, the challenge should take you between 3 and 5 hours of effort, but if you get carried away, we will not penalize you for your passion :)

General Rules and Guidance

1. Do not seek assistance from anyone else, or plagiarize solutions from the web.
2. Structure, name and write your code as if you are writing it for production.
3. Test your work thoroughly and ensure your report and submission is working before submitting it for review. You will not get a second chance.
4. Follow this guidance carefully, and submit as instructed. We will not reach out to you if you miss any steps.
5. Please reach out to us at careers@gsynergy.com if something requires clarification. We may take up to 24 hours to respond.

How to submit your solution

1. Create a shared folder on Google Drive, Microsoft One Drive, Dropbox, or some similar service to share your assets for review. The folder should include the .pbix or .pbip file for your Power BI report. Anyone with the link of the folder should be able to access the contents of the folder.

2. Create a brief (2 – 5 mins) screen recording video demonstrating your Power BI report and the model. Please use your own voice to describe your work. Upload this to the shared folder from step #1 or a video sharing service (such as YouTube).
3. Send an email to careers@gsynergy.com using the same email that you used in Google Forms to notify us of your submission.

Power BI Challenge: Sales Performance Analysis

You will be developing a Power BI Model and Report to help users analyze the sales performance of their organization.

Challenge assets are available at:

https://drive.google.com/drive/folders/1qgx1t5RAc_QkzesjuCuqjC3rwS-ejobK?usp=drive_link

Power BI Model

The Excel file named [GSPBI25 - Sales.xlsx](#) has multiple tabs. Your model should create a table for each of the tabs that are required for meeting the needs of the report below, and should establish the relationships with the appropriate cardinalities. You may add any calculated columns and measures to the model, as you see fit.

The sample data has been made available by Microsoft for Power BI learning and training.

Power BI Report

The report has one main page, and one drill-through page (refer visualization specs in subsequent pages).

The main page has

- 1) A header which should include
 - a) The attached [GSynergy logo](#)
 - b) Your name
 - c) Report wide filters as shown in the spec.
- 2) The body, which should include the sections as described in the visualization spec.
 - a) The column chart should allow users to drill through to a specific product category and show the detailed data as specified in the visual specs of the drill-through report.
 - b) The Map should automatically adjust to show the selected countries, states or cities as selected by the user. Note that if a plural form is used to name a filter, it indicates that the user must be able to select one or more of that type. Please also support an option to select all items in the list. Ensure that you limit the possibility of human error in making inconsistent selections.

- c) The details section should show the crosstab as specified. Be sure to format data as specified. Pay attention to the correctness of data and calculations.

The drill through report should automatically filter to the data from where the drill through was initiated. Be sure to format data as specified. Pay attention to the correctness of data and calculations.

Try to impress us by

1. Aesthetics of your visualization. Keep the report neat, symmetrical, and clutter free. Make sure that fonts, colors, etc. do not distract from the insight being communicated. Remember, the art in the visualization is its ability to effectively and efficiently communicate the insight, not its fonts, colors, etc.
2. Ensuring that your calculations are written to perform for data sizes much larger than the one provided.

Evaluation Approach / Criteria

1. We will start by reviewing your screen video demonstrating your work. Please be sure to demonstrate how your solution meets all requirements. Please ensure that you speak clearly and audibly, and that your screen recording shows your entire screen. Showing the speaker in a small inset is preferred, but not required. There are many free screen recording tools available; you may use any as long as the video can be played in the browser using the link you provided.
2. If we are satisfied with your presentation in the video, we will download and examine your Power BI submission.