

Case Study Overview

Goal

This case study is the final step of the interview process for the Data Solutions Consultant role and you will be presenting to a panel of members selected from the [REDACTED]

The goal of this case study is to gain an understanding of your ability to understand new concepts, problem solve with limited information, demonstrate your technical proficiency working with data, and the ability to present these concepts to a client.

Duration

60 minutes is reserved for the case study to provide a sufficient amount of time for the presentation, Q&A and debrief.

Schedule

5 min:	Intros and set up
15-20 min:	Part I (presentation and Q&A)
15-20 min:	Part II (presentation and Q&A)
5-10 min:	Case study debrief

Presentation

Be prepared to present from your own computer using Google Meet (review the steps in this [link](#) before the case study if you haven't presented in Google Meet before).

Collateral

Since you will be presenting from your own computer you may use any type of visual aides in addition to your presentation slides to address any key points.

The day of your interview, send a copy of the complete set of data files you transformed in addition to your presentation to [REDACTED] for the case study panel to review.

Audience

Your target audience for Part I of the case study is the client's project team which could include their project manager, data SME, operations manager, wealth advisor, etc (these roles will be assumed by the case study panel). For Part II, your audience will be the case study panel.

Materials

Included in this document: Instructions, Client Profile & Requirements and Conversion Method Overview

Included in the shared drive: Client files, import templates, data mapping files

Instructions

Background

You've been assigned as the lead Data Solutions Consultant on a historical data conversion project for a new client. In your first meeting with the client you gathered their reporting requirements and requested that they provide you with historical data files for one sample account so you can review this information and provide a recommendation about which conversion method will be the best fit for them. They have provided you with the files you requested and you now have everything needed to move forward with the next steps in the process.

Part I

Review the historical data files that the client has shared with you as well as their reporting requirements to determine which conversion method will be the best fit for them. Once you have determined which method you're going to recommend, prepare a presentation to educate the client on the different data conversion methods available, highlight the method you're recommending and why you're recommending that method.

Part II

Using the historical data files provided by the client, transform the data into the required **CSV** format for each file required by the conversion method you've recommended.

Come prepared to present and discuss with the case study panel:

- Your process and methods to transform the data set with examples.
- Did you run into any challenges and how did you overcome them?
- Do you have any recommendations to the client to adjust the output of the data files they provided?
- Do you have any suggestions about how to improve the process?
- What did you learn and if you were to go through the exercise again what would you do differently?
- Optional: Once the data is loaded into **CSV**, how would you recommend the client validates the **CSV** data compared to the source data to confirm its accuracy?

Client Profile & Requirements

Client Profile

- Legacy system will be decommissioned in 8 months
- Self-sufficient and knowledgeable about the portfolio data in their legacy system
- Values flexibility over exactness
- Have multiple resources from their operations team that are available to help with the conversion project if needed
- Willing to increase their budget and resources if they can see added value in a proposal
- Prefers simple solutions to provide a better experience for their diverse user base ranging in age and technical ability
- Expressed that it would be nice to have historical transactions available to use for reference

Reporting Requirements

Need to report on 3 levels:

1. Household (highest reporting level)
2. Client
3. Account (lowest reporting level)

Reporting metrics:

- TWR
- Value
- Cash flows

Reporting Interval:

- Monthly

Data Availability

The client confirmed with you that the sample files they provided were generated from standard reports built into their legacy system and if other formats are required they will need to involve a technical resource or consultant to help build new custom reports to meet any additional data requirements.

* I have concluded that this method is the best data transformation procedure, given the client's requirements

Method #3 - Transactions and Pricing

Description

Security transaction and pricing data is extracted from the legacy system, transformed into [REDACTED] format and loaded into [REDACTED]

Pros

- Security level transaction data is retained for reporting and historical reference
- Provides the most flexibility with table groupings in reports
- Enables the most detailed level reporting out of all the conversion methods (asset class, security, etc)

Cons

- Requires the most time and resources
- Data validation vs source system is recommended since performance is recalculated in [REDACTED] and there can be slight variations in the output

Data requirements

Complete data history of security transactions and daily security pricing for all accounts over the conversion period in-scope.

Required import templates

Type	Import Template
Prices	Historical Prices
Transactions	Transactions