



# **Lloyds Banking Group**

**Data Analyst Incubation**

## **Paired Technical Interview Scenario (Role Play)**





## Guidelines

- Pair-up with a colleague and each of you must decide on a set of 10 questions to ask the another, selected from the question bank below.
- You should choose 7 technical skills and 3 soft skill focused questions.
- Do this separately so the other cannot see your questions, jumble the order so it is harder to anticipate the order the questions will arrive in.

In your pairs, take turns in playing the role of interviewer and the role of candidate. We recommend that you each practice being interviewed twice so you can try to explain the same examples more than once.

### As the Interviewer

Fill in the Interview Assessment and Feedback form with your selected Questions and during the interview, give the candidate a score between 1-5 and a few notes of feedback. You are interviewing a Data Analyst, so acknowledge that there may be a misunderstanding about terms at times and it is natural to seek clarifications during the interview exercise. Be constructive and empathic in your assessment and feedback to the candidate.

### As the Candidate

This is a practice opportunity, so don't worry if you have trouble describing all your technical skills or can't answer every question comfortably straightaway. Technical interviews are a skill which get easier if you take notes and reflect on the areas of questions that you had issues with.

- This an opportunity to broaden your comfort level in describing your skills as a Data Analyst
- If the interviewer doesn't know enough to give relevant feedback to you on one question, use the opportunity to highlight the question discuss together, and try to come up with a good response after the interview scenario ends



## **Question Bank:**

### **Soft Skill Questions (pick 3 for your role play)**

1. Can you describe a time when you had to interpret stakeholder requirements for a data project?
2. Tell me about a challenge you faced while working on a data analytics project. How did you overcome it?
3. What Data Analytics technology or tool are you most comfortable with? Why?
4. Describe how you managed your time and priorities when working on a project with tight deadlines.
5. What is your process for managing setbacks and complex challenges during a data project?
6. How would you explain the importance of data analysis in the banking sector?
7. How do you explain complex data analysis findings to non-technical stakeholders?
8. Do you prefer to work on your own project or in a team, why?



## Technical Skill Questions (pick 7 for your role play)

9. Describe a time when you integrated data into a database, what precautions did you take to ensure data integrity?
10. How can data analytics be used in risk management within a bank? Can you think of a specific application?
11. Describe how you would use data analysis to improve customer satisfaction in a banking context.
12. What key performance indicators (KPIs) would you use to evaluate the bank's financial health from a data analyst's perspective?
13. How do you approach designing a dashboard in Tableau for customer segmentation? What key measures would you include?
14. How would you write an SQL query to identify trends in customer transactions over time?
15. What steps do you take in preprocessing data for segmentation analysis? Can you discuss how you handle missing values or outliers?
16. Do you have an interest in continuing to develop your skills in programming with Python or SQL? Why?



17. Can you walk me through the process of developing a classification model in Python? What libraries do you typically use?
18. Describe your experience with data visualization tools. What tool do you prefer for presenting financial data, and why?
19. Describe how you undertook the Data Analytics Lifecycle in Power BI. What challenges did you face, and how did you address them?
20. Describe how you would filter data using SQL, either in Big Query or MS SQL Server
21. Describe an example of a data governance procedure you followed when integrating data into a relational database.
22. Why would it be useful to a business to conduct sentiment analysis for their customers.
23. What are some common challenges you encountered when processing and analysing qualitative data.
24. How do you evaluate the performance of a classification model? What metrics do you prioritise? Feel free to use an example.
25. Which time series forecasting methods have you used, and in what contexts? What is seasonality?



26. Describe a project where you loaded data into GCP, what might you use BigQuery for after the data is loaded?
27. Have you used GCP Vertex AI for any projects? How did it enhance your data analysis or modelling capabilities?
28. Describe a data anonymisation process you undertook when loading data into a shared cloud space like GCP
29. What are some benefits to using GCP-BigQuery to store and query data over a local relational database like MS SQL Server.
30. Data security is crucial in cloud platforms. How do you implement secure practices when working with data in GCP?

