DIABETES PREDICATION ASSESSMENT QUESTIONS

Note: These assessment questions cater to interns at various skill levels, from beginners to experienced analysts. If you find any questions challenging, feel free to search for solutions or contact us at intern@psyliq.com for assistance. Good luck with the assessment!

1. Data Cleansing: What steps would you take to clean the data, such as handling missing values or outliers?

2. Basic Visualization: Create a simple bar chart to show the distribution of genders in the dataset.

3. DAX Introduction: What is DAX, and why is it used in Power BI?

4. Calculated Columns: How can you create a calculated column in Power BI, and why might you need one?

5. Filtering Data: Explain how to filter data to display information for employees aged between 30 and 40.

6. Joins: What is the difference between inner join and left join, and when would you use each in Power BI?

7. Data Modeling: Describe the importance of data modeling in Power BI and how it impacts your visualizations.

8. Measures in DAX: Create a DAX measure to calculate the average BMI for employees with hypertension.

9. Advanced Filtering: How can you create a slicer that allows users to filter data based on age ranges (e.g., 20-30, 30-40, 40-50)?

10. Time Intelligence: Explain how to use DAX to calculate the year-to-date total for blood glucose levels.

11. Complex Joins: Combine data from multiple tables, including employee data and diabetes data, using appropriate joins.

12. Data Aggregation: What is the purpose of SUMMARIZE in DAX, and how can you use it to aggregate data?

13. Advanced Visualization: Create a line chart that shows the trend of HbA1c levels over time, with proper axis formatting.

14. Performance Optimization: Discuss techniques for improving the performance of a Power BI report, especially when dealing with large datasets.

15. Row-Level Security: How can you implement row-level security in Power BI to restrict access to sensitive employee data?

16. Advanced DAX: Write DAX code to calculate the rolling average of blood glucose levels over a 3-month period.

17. Custom Visuals: Explain the process of importing and using custom visuals in Power BI.

18. Cross-Filtering: Describe the concept of cross-filtering and its impact on report interactivity.

19. Advanced Calculations: Create a DAX measure that calculates the probability of an employee having diabetes based on their age, gender, and other factors.