



**Deloitte.**

**1st Round Technical  
Interview Questions  
for Data Engineering  
Role at Deloitte**



# 1st Technical Round

( Interview is more inclined towards Project related knowledge and conceptual )

- 1. Can you provide a concise overview of your background and experience in data engineering projects?**
  
- 2. How would you implement error handling in Azure Data Factory pipelines?**
  
- 3. How do you retrieve the most recent files from a storage location using Azure Data Factory (ADF)?**

**4. Given a table with existing records, and the task is to insert new records without modifying the existing ones, how would you approach this scenario?**

**5. What is your strategy for archiving or relocating processed files to a different location after data loading into a data warehouse?**

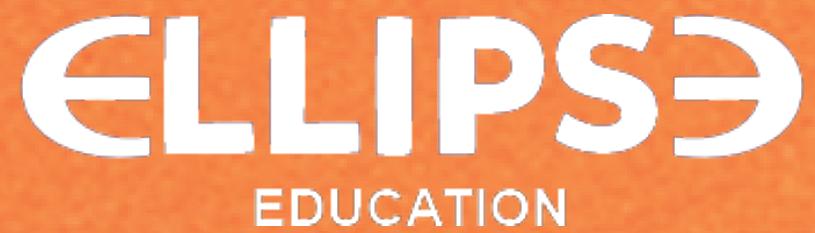
**6. Within Azure Data Factory (ADF), explain how you can utilize wildcard characters to gather metadata for specific files or objects.**

**7. Define the Slowly Changing Dimension (SCD) and types of SCD. How do you handle historical data updates within a data warehouse? Please share your involvement with implementing SCD types in previous projects.**

**8. Considering an employee salary table containing duplicate values, compose SQL code to identify the second-highest salary within each department.**

## INTERVIEW QUESTIONS

- 9. Write a SQL query to eliminate duplicate rows from a table.**
  
- 10. Write a SQL query to calculate the total revenue generated by each product category.**
  
- 11. Describe the steps involved in scheduling and monitoring Azure Data Factory pipelines.**



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