

# Grover Data Engineer Interview Guide – Experienced 7+

## Interview Process Breakdown

### Round 1: Get to Know

**Objective:** An introductory round to assess background, motivations, and alignment with Grover's values.

**Questions Asked:**

1. **Can you tell me about your past experiences and projects?**
  - Here, I highlighted key projects that demonstrated my problem-solving skills and contributions to data pipelines and system designs.
2. **What challenges did you face, and how did you tackle them?**
  - Shared examples like resolving bottlenecks in ETL pipelines and optimizing query performance.
3. **Why did you apply to Grover?**
  - Expressed my interest in Grover's innovative approach to sustainable consumption and shared how my skills align with their mission.

**Tips:**

- Prepare a crisp introduction that covers your background, key achievements, and why you're a great fit for the role.
- When discussing challenges, emphasize your problem-solving approach and the impact of your solutions.

### Round 2: Technical

**Objective:** Assess hands-on technical skills in SQL and Python.

**Key Tasks and Questions:**

1. **Find the error in the provided SQL query:**
  - The question tested my ability to debug queries by identifying logical or syntactical errors.
2. **SQL Question:**

*Write a query to calculate the day's difference between the 1st and 3rd sales of the CustomerName = 'Alice Johnson'.*

  - This tested proficiency with SQL window functions, subqueries, or common table expressions (CTEs) to retrieve ordered results and perform calculations.

**Approach:**

- Use ROW\_NUMBER() or similar window functions to rank sales chronologically for the customer.
- Calculate the difference between relevant rows using a self-join or a subquery.

**3. Python Task:**

*Write a Python function to reverse a string.*

**Example Solution:**

python

Copy code

```
def reverse_string(input_str):  
    return input_str[::-1]
```

**Tips:**

- Practice SQL debugging by reviewing query errors and correcting them with test cases.
- Review Python basics, especially commonly used operations like string manipulation and list comprehensions.

**Round 3: Hiring Manager**

**Objective:** Evaluate fit within the team and deeper discussions on past projects.

**Focus Areas:****1. Team Fit Questions:**

- Questions revolved around my ability to collaborate, handle conflicts, and contribute to a dynamic team.

**2. Project Discussions:**

- I elaborated on a data pipeline project where I automated ingestion and processing, reducing latency by 40%.

**Tips:**

- Be ready to discuss your resume in detail, highlighting decisions made, challenges faced, and measurable outcomes.
- Focus on how your technical and interpersonal skills can benefit the team.

## Round 4: CEO Interaction

**Objective:** Introduce myself to the CEO and ask questions about the company.

**Key Points:**

- I shared a brief summary of my career and expressed enthusiasm for joining a company focused on sustainable innovation.
- Asked thoughtful questions about Grover's long-term goals, challenges, and the role of data engineering in achieving their vision.

**Tips:**

- Prepare a concise yet impactful self-introduction for senior leadership interactions.
- Ask meaningful questions that reflect genuine interest in the company and its direction

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