

NASDAQ Data Engineer Interview Guide – Experienced 8+

Introduction

This experience highlights the interview process at Nasdaq for a Data Engineering role, emphasizing the technical depth, alignment with the job profile, and cultural fit. Each round is designed to evaluate different facets of the candidate's skills and understanding, from technical expertise to leadership, project alignment, and overall fit with the company culture.

Interview Process Breakdown

- 1. Round 1: Technical Interview**
Focus: Self-introduction, deep dive into technical skills, SQL expertise, and project challenges.
- 2. Round 2: Managerial Fitment (First Interaction)**
Focus: Technical alignment with the job profile and understanding the role from a broader perspective.
- 3. Round 3: Leadership and Expectations**
Focus: Leadership skills, team understanding, and aligning personal expectations with organizational goals.
- 4. Round 4: HR Fitment and Negotiation**
Focus: Final discussions about the role, understanding company culture, and compensation negotiation.

Detailed Insights on Each Round

Round 1: Technical Interview

Self-Introduction

The interviewer begins with a self-introduction. This is your opportunity to:

- Highlight your tech stack and its relevance to the role.
- Showcase your recent projects, focusing on your role, the technologies used, and the challenges tackled.
- Align your experience with the job profile using real-world examples.

Tip: Use this as a chance to draw parallels between your experience and the role's requirements, demonstrating how your expertise adds value to the team.

Technical Discussion

- **Technology & Architecture:**
Be prepared to discuss the architecture of your current project. Highlight specific responsibilities like:

- Connecting on-premise data sources to cloud platforms.
- Interacting with external APIs and using tools like Azure Data Factory (ADF).
- Managing data ingestion, transformation, and deployment.
Example Question: *How does ADF help streamline data movement in your project?*

- **SQL Skills:**

Expect intermediate to advanced SQL questions, such as:

- Working with window functions (RANK(), DENSE_RANK()).
- Writing complex queries with joins and Common Table Expressions (CTEs).

Example Question:

Write a query to calculate Monthly Active Users (MAUs) for July 2022.

```
SELECT
    MONTH(event_date) AS month,
    COUNT(DISTINCT user_id) AS monthly_active_users
FROM User_Action_Table
WHERE event_type IN ('sign-in', 'like', 'comment')
    AND user_id IN (
        SELECT user_id
        FROM User_Action_Table
        WHERE event_type IN ('sign-in', 'like', 'comment')
            AND MONTH(event_date) = MONTH(DATE_ADD(event_date, INTERVAL -1 MONTH))
    )
GROUP BY MONTH(event_date);
```

- **Project Challenges:**

Be ready to discuss challenges you've faced, such as API failures or data quality issues, and how you resolved them.

Round 2: Managerial Fitment (First Interaction)

- Briefly introduce yourself, emphasising your tech stack and recent projects.
- Mention key technologies used and your role in those projects.
- What Tech and Architecture I have worked with and how that would align myself with the job profile in that team.
- What do I know about Nasdaq.
- Interviewer gave a bird's eye view on the profile and areas that it would be covering. Here it was a great chance to showcase how my skills are aligned with the profile with real-life examples. Also discussed, how things work internally in Nasdaq.
- Question from my side helped here to showcase my interest in the role and also understand the role better from management perspective.

Round 3: Leadership and Expectations

- Briefly introduce yourself, emphasising your tech stack and recent projects. Mention key technologies used and your role in those projects.
- It was focussed on what I understand about the profile based on last two discussions.
- Followed up with expectation and focus from the leadership side. Here it was a great chance to showcase how my leadership skills and understanding the criticality of having a good understanding of the project and team.

Round 4: HR Fitment and Negotiation

- Briefly introduce yourself.
- What do I know about Nasdaq?
- Why leaving within a year from previous organisation? Follow up questions here based on the answer.
- Why still looking out if you already have an offer. Praise Nasdaq and put forward your genuine interest in Nasdaq.
- What I understand about the profile.
- Explained about Nasdaq work culture and policies.
- Requested to negotiate on the offer I already have. Feel free to give your numbers here. Don't shy away as this would be crucial.
- Emphasis was on joining Nasdaq for its Brand value and work culture not just compensation part.

Glassdoor NASDAQ Review –

<https://www.glassdoor.co.in/Reviews/Nasdaq-Reviews-E12152.htm>

NASDAQ Careers –

<https://www.nasdaq.com/about/careers>

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