**ADF Questions:**

1. **Working knowledge of:**
   * Linked Services, Datasets, Integration Runtimes (IRs)
   * Common activities (Copy Data, Lookup, ForEach, Web, Logic Apps)
2. **Scenario-based questions on IRs**
   * When to use which type of IR?
3. **Triggers in ADF**
4. **Pipeline Design:**
   * What activities are needed to fetch data from an SFTP and ingest it into Snowflake?
5. **Why is a staging layer required when loading data into Snowflake instead of direct ingestion?**
6. **Parameters required to connect in Linked Services:**  
   a) API  
   b) Snowflake Database  
   c) SFTP
7. **Scenario-based question on Bulk Ingestion**
8. **CI/CD and DevOps familiarity in ADF**
9. **How to Achieve Parallelism in ADF.**

**Snowflake Questions**

1. **Snowflake Architecture**
2. **Types of:**
   * Warehouses
   * Views
   * Tables
3. **SQL Optimization Techniques**
4. **Stored Procedures & Functions**
   * Types and supported languages
5. **Cache types and fundamental concepts**
6. **Star Schema vs. Snowflake Schema**
7. **Retention period & Fail-safe concepts**
8. **How to use data from prod in Dev.**
9. **Policies in snowflake. Have you used in snowflake.**

**Architect Level questions asked in Snowflake, Databricks & Azure services:**

Difference between snowflake and data bricks

Pros and cons of delta table.

Design a data ware house with multiple tenants and folder-level security.(Unity catalog/RBAC/RLS/CLS)

ADLS storage security layered till folders?

Performance of snowflake & adf? Parallelism

Snowflake+ADF (Project)

Metadata-driven architecture? How will we check data issues from

source to bronze before processing? How would you perform checks before

Data mesh architecture?

Advantages of snowflake?

Data quality framework?

SQL:

How to delete the duplicate from a table.

where to use the Having and where clause.

Difference between Rank and Dense Rank.

Difference between Data Warehouse and Data lake.

**[Prabhakar]: KC Client Interview Questions**

Explain your recent project architecture and your role in the project(expecting ADF as ETL/ELT).  
**ADF:**

Metadata-driven data load

How do you handle failures and backtrack errors?

End-to-End (source to destination final layer): How is the architecture designed in your project?

How do you log the status of pipeline runs?

What different data sources have you worked with in ADF?

Linked Server, Triggers, Key Vaults (with respect to storing secrets and utilizing them in Linked Server)

**Snowflake**:

How did you handle establishing relationships between Dimension and Fact tables?

How do you optimize queries in Snowflake?( when do you Scale-up & scale-out of a warehouse )

Data Clustering

How do you find data spilling for a query?

What are the benefits of using Snowflake over other cloud data platforms?

Data Security in Snowflake (CLS, RLS) — What security methods did you use in your project?

Snowflake Features: Time Travel, Cloning, Cache, Snowpipe

How did you deploy your code to higher environments?

Any exposure to Python, Databricks, Power BI, and Agile tools (Jira)? (No specific questions asked)