🔥 Azure Data Engineering Interview Prep: Question Set 2 🔥

I've been sharing key concepts that every Data Engineer should know to excel in their career. Here's a quick recap of the must-know Data Warehouse and SQL topics that can elevate your skills! Let's keep learning and growing together.

31. Surrogate Key vs. Primary Key – Click to read answer
32. Slowly Changing Dimensions (SCD): Types and Real-World Examples – Click to read answer
33. OLTP vs. OLAP: Understanding the Difference – Click to read answer
34. Data Warehouse vs. Data Lake vs. Lakehouse: Choosing the Right Solution – Click to read answer
35. Dimensional Tables vs. Fact Tables: How They Work Together – Click to read answer
36. Types of Dimensional and Fact Tables: A Deep Dive – Click to read answer
37. Snowflake Schema vs. Star Schema: Which One to Choose? – Click to read answer
38. Views vs. Materialized Views: Key Differences and Use Cases – Click to read answer
39. Optimizing Your Queries: Tips and Best Practices – Click to read answer
40. Common Table Expressions (CTE) with Example: Simplifying Your Queries – Click to read answer
41. ETL vs. ELT: Which One Fits Your Needs? – Click to read answer
42. Indexes and Their Types: Enhancing Database Performance – Click to read answer
43. ACID Properties Explained with Real-World Examples – Click to read answer
44. Data Modelling: Defining Schemas for Success – Click to read answer
45. How to Design Star Schema for Data Warehouse – Click to read answer
46. Normalization vs. Denormalization – Click to read answer
47. 13 Major Key Differences to Nail SQL in Interviews – Click to read answer

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👉 Scenario Series: Mastering Data Engineering Challenges! 👈

1. Scenario: Identify and fetch files missing from the destination in ADF – Click to read answer
2. Scenario: ADF Pipeline fetching and storing Employee Names – Click to read answer
3. Scenario: How to use Until Activity in ADF – Click to read answer
4. Scenario: ADF - Copy file only if it has data – Click to read answer
5. Scenario: SQL - Optimize the Big Query with Example – Click to read answer

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6. Scenario: SQL - Joins Output Interview Question – Click to read answer

7. Scenario: Handling NULLs in SQL – Click to read answer

8. Scenario: WHERE vs. HAVING in SQL with Example – Click to read answer

9. Scenario: Handling API Response in ADF – Click to read answer

10. Scenario: Normalization Types Explained with Examples – Click to read answer

11. Scenario: 20 SQL Join Questions to Master Joins – Click to read answer

12. Scenario: 8 SQL Interview Questions on String and Date Functions – Click to read answer

13. Scenario: 8 SQL Interview Questions on Aggregation Functions – Click to read answer

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📚 Here are below first Set of Questions I have posted. 📚

1:– Difference between Control flow and Data Flows Click to know the answer

2: Integration Runtimes (IR) in Azure? – Click to know the answer

3: Types of triggers in ADF? How do you schedule your pipeline? – Click to know the answer

4: What's the difference between ADLS and Blob Storage? – Click to know the answer

5: What is redundancy in the ADLS? – Click to know the answer

6: Difference between Copy Activity & Data Flow? Why use Data Flow when Copy Activity has a query option? – Click to know the answer

7: If a pipeline fails, how do you resume from the failed activity? – Click to know the answer

8: How do you separate bad records during a copy activity from ADLS to SQL? – Click to know the answer

9: How do you get the latest files using ADF? – Click to know the answer

10: How to delete files older than 30 days? – Click to know the answer

11: What is the Get Metadata activity and its components? – Click to know the answer

12: How do you add dependencies for a pipeline activities? – Click to know the answer

13: How do you move files to an archive folder in ADLS? – Click to know the answer

14: Scenario: Move multiple files from one container to another. – Click to know the answer

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15: Scenario: Copy only files starting with "customer" and add a date in ADLS. – [Click to know the answer]

16: Scenario: Copy files based on filenames from input to output container. – [Click to know the answer]

17: Implement a Logic App for email notifications? – [Click to know the answer]

18: Implement Key Vault in your project? – [Click to know the answer]

19: Full Load Implementation ✳ – [Click to know the answer]

20: Incremental Load Implementation ✳ – [Click to know the answer]

21: Implement SCD Type 2 in Data Flows ✳ – [Click to know the answer]

22: Limitations of ADF activities? – [Click to know the answer]

23: How do you troubleshoot or debug in ADF? – [Click to know the answer]

24: Difference between parameter and variable with examples. – [Click to know the answer]

25: Read data from an API securely? – [Click to know the answer]

26: Implement on-prem to ADLS data migration? – [Click to know the answer]

27: Optimize your pipelines in ADF? – [Click to know the answer]

28: Handle large file issues in ADF? – [Click to know the answer]

29: Add dependencies to a pipeline in ADF? – [Click to know the answer]

30: Connect a Databricks notebook to ADF? – [Click to know the answer]

Follow me, [Shivakiran Kotur,] for daily data engineering insights and concepts! 🖊 Let's learn and grow together in the exciting world of data. Connect with me for valuable tips and updates! ⋑