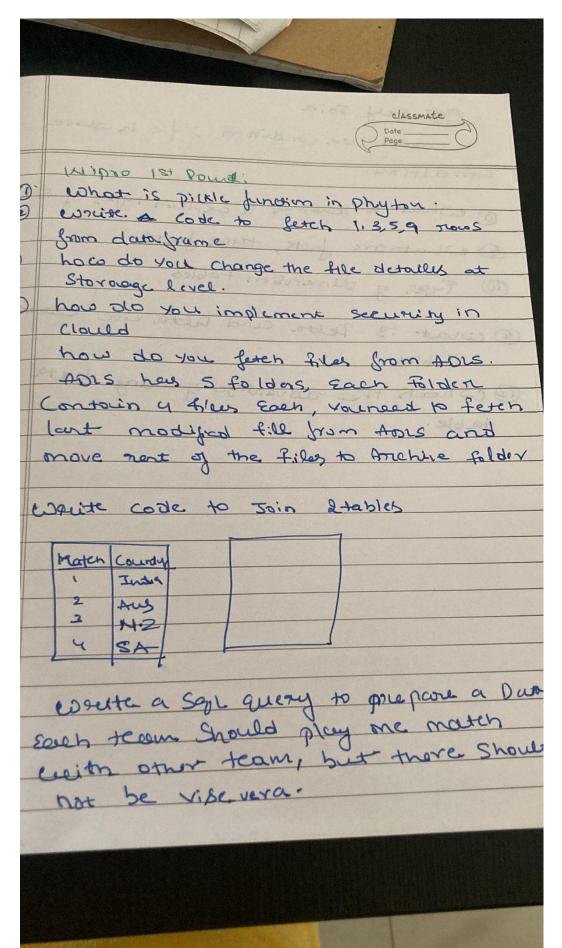


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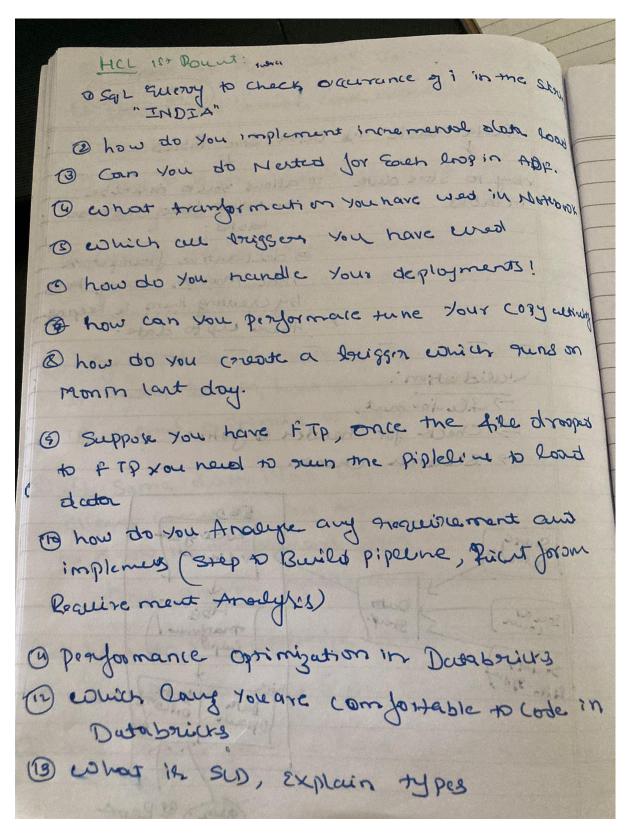
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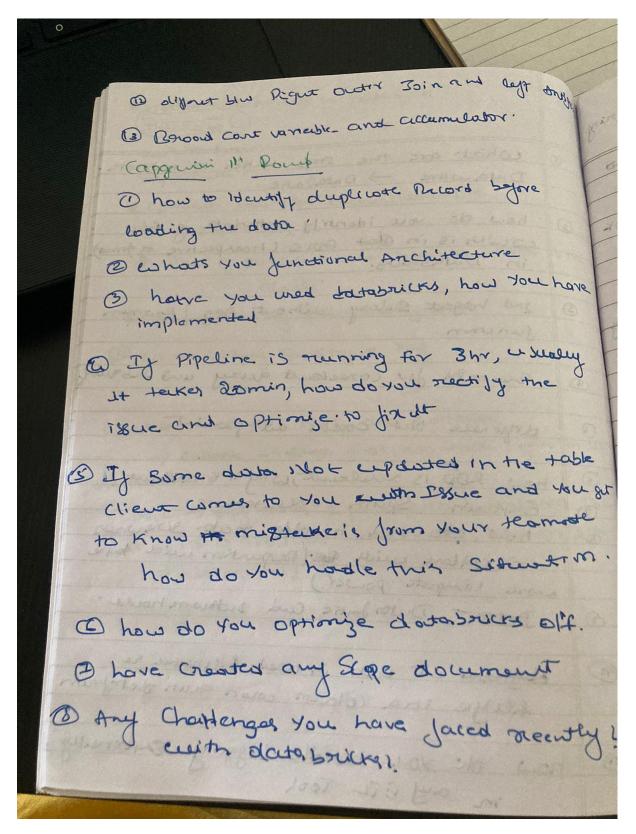
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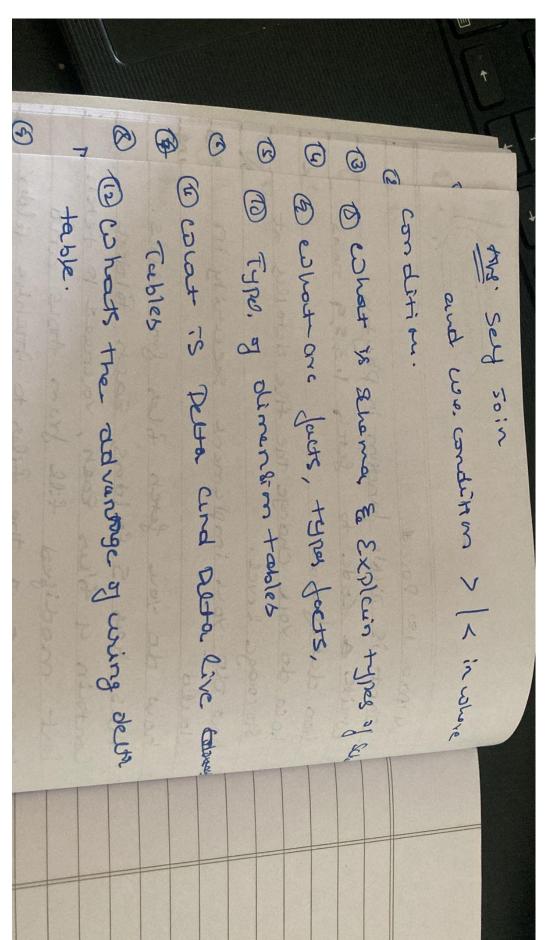
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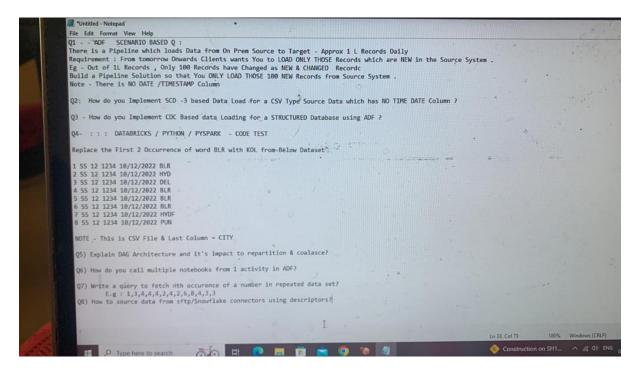
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KPMG interview questions Interview Questions

- Q1. Difference between RDD, Dataframe and Dataset. How and what you have used in you databricks for data anlysis
- Q2. What are key components in ADF? What all you have used in your pipeline?
- Q3. Do you create any encryprion key in Databricks? Cluster size in Databricks.
- Q4. Difference between ADLS gen 1 and gen 2?
- Q5. What is Semantic layer?

16:24



Mediolanum

- 1.difference between partition and group by
- 2. Difference between blob storage and data lake
- 3. How you implement security in cloud
- 4. How you clone / replicate data from on premise to cloud (migration)
- 5. 2nd highest amount from order table
- 6. What is difference between data mart and data cube
- 7. Normalisation
- 8. How design dynamic pipeline and handle /run dynamic pipeline in adf
- 9. Have you used API
- 10. How do you manage deployments
- 11. Do you have experience in monitoring
- 12. How do you optimise pipeline
- 13. What is composite key
- 14. Have you worked on incremental load
- 15. How do you handle data loading
- 16. How you do handle sql injections
- 17. How do you handle security on cloud data







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Mastercard 2nd round

Difference b/w hive and spark?

Broadcast join?

How to fetch data from hdfs?

2 sql quries?

Hive query optimisation?

How you will test your data?

There were other questions but do not remember them. $_{17:37}$



Capgemini questions - most of the question related to project.2 functions used in ADB in your project 3. Optimization used in adb 4. How to optimise api which we calling in ADF ,if it failed due to huge load 5. How to implement scd type 3 in adb 6. Left semi join.



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Kpmg interview questions



How will you read data with multiple gb from sftp in adf? CICD?

Schema inforcement in delta table?

Trigger on sftp server using adf when data arrives?

What happens if deiver machine fails in databricks?

Memory management in spark?

Simple sql queries?

View vs materialized view?

Etl pipeline architecture?

Spark architecture?

Different types of join in spark?

19:16



Mastercard interview questions asked

Bucket and partitioning?

SCD Type?

How old data you store in data warehouse if we talk about scd 2?

Data mart?

Hdfs?

Testing framework?

4th highest salary?

View vs materialised view?

Union and union all?

Did you implement any data warehouse?

Can we have partitioning and bucketing together?

19:13



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Questions asked in Cognizant interview

Databricks runtime used?

MAP join?

Search a text in big file?

How you will setup a etl pipeline?

Fetch 2 csv files, remove duplicates and then join?

What are magic commands?

How to run job in databrics?

How to count number of executors?

Challenges face in your projects?

Repartition vs coalesce?

Spark sql?

Second highest salary?

What is equi join?

sparkSession vs sparkContext?

Tuple, dictionary?







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Fractal L1

- 1. SQL question to print max salary department wise along with Emp Salary
- 2. Implement same solution using window functions
- 3. Python program to reverse an integer
- 4. Python program to print if a number is prime
- 5. What is Databricks
- 6. What is a driver and executor node
- 7. Difference between blob and ADLS
- 8. Why do we need Databricks
- 9. What are the types of clusters
- 10. Can we iterate over a dataframe using loops
- 11. What is integration run time and it's types
- 12. How do we get to know if a pipeline has failed or succeeded in ADF
- 13. What is a Delta table
- 14. What are fact and dimension tables
- 15. What are the different ways of reading a file from databricks present in ADLS
- 16. Can we run a Pandas code in databricks and if yes which is a better option... Running the same dataset on Pandas or PySpark. 14:19





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Capgemini- Interview - May27th

- 1) Could you provide a brief introduction about yourself and your project as an Azure Data Engineer?
- 2) How can PySpark be utilized to establish a connection with Azure Data Lake Storage (ADLS), retrieve data from a CSV file, convert it to Parquet format, and store it back in ADLS?
- 3) How can the same functionality be implemented simultaneously in two separate notebooks within Databricks?
- 4) Can you elaborate on the two available types of clusters in Databricks?
- 5) What are the different types of Delta Lake tables?
- 6) Can you explain the roles and functions of each layer in the three-layer architecture of Databricks?
- 7) Within Databricks, in which layer should production data be ingested?
- 8) When retrieving records from Table B while including the common records between Table A and Table B, what type of join should be used?
- 9) What are the differences between an Inner Join and a Self Join? Could you provide an example to illustrate each?
- 10) What is a Cartesian join, and how does it differ from a self-join and a full outer join? Additionally, could you provide an example to further explain, especially when null records are present in one table?
- 11) Can you provide an explanation of window functions in SQL?
- 12) How do the lead and lag functions in SQL differ from each other?
- 13) What is the concept of normalization, and what are the different normalization types?



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Hexaware: May 22-2023

1)Can you provide a brief overview of your background as an Azure Data Engineer?

2)What are your specific responsibilities and roles as an Azure Data Engineer? 3)Could you explain the reasons for using Databricks and its practical applications?

4)Can you highlight the key distinctions between Azure Data Factory (ADF) and Databricks?

5)In a scenario where I need to move 100 tables from a source SQL database to a target SQL database, and the number of columns in the source and target tables differ, what approach should I take to accomplish this task using Azure Data Factory?

6)Can you elaborate on the differences between blob storage and Azure Data Lake Storage (ADLS)?

7)What does the term "managed table" refer to in the context of PySpark? 8)Could you outline the disparities between repartitioning and coalescing in Spark?





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