- 1. How can you read parameters using dbutils.widgets.text and retrieve their values?
- 2. How do you provide read access for a production notebook to a new data engineer for review?
- 3. When attaching a notebook to a cluster, which permission allows you to run the notebook?
- 4. Should production DLT pipelines be run on a job cluster or an all-purpose cluster?
- 5. Does a CTAS (CREATE TABLE AS SELECT) operation execute the load every time or only during table creation?
- 6. How can you control access to read production secrets using scope access control?
- 7. Where does the %sh command run in Databricks?
- 8. If a query contains a filter, how does Databricks use file statistics in the transaction log?
- 9. What happens when you run a VACUUM command on a shallow clone table?
- 10. Which type of join (left, inner, right) is not possible when performing a join between a static DataFrame and a streaming DataFrame?
- 11. When the source is a CDC (Change Data Capture), should you use MERGE INTO or leverage the Change Data Feed (CDF) feature?
- 12. How can you find the difference between the previous and present commit in a Delta table?
- 13. What is the best approach for nightly jobs that overwrite a table for the business team with the least latency?
- 14. What does the OPTIMIZE TABLE command do, and what is the target file size?
- 15. In a streaming scenario, what does the .withWatermark function do with a delay of 10 minutes?
- 16. How does aggregating on the source and then overwriting/appending to the target impact data load?
- 17. Why did you receive three email notifications when a job was set to trigger an email if mean(temp) > 120?
- 18. Why should the checkpoint directory be unique for each stream in a streaming job?
- 19. How would you set up an Autoloader scenario to load data into a bronze table with history and update the target table?
- 20. How can you handle streaming deduplication based on a given code scenario?
- 21. For batch loading, what happens if the load is set to overwrite or append?
- 22. In a Change Data Feed (CDF) scenario, if readChangeFeed starts at version 0 and append is used, will there be deduplication?
- 23. How can you identify whether a table is SCD Type 1 or 2 based on an upsert operation?
- 24. To avoid performance issues, should you decrease the trigger time or not?
- 25. How does Delta Lake decide on file skipping based on columns in a query, and what are the implications for nested columns?
- 26. What does granting "Usage" and "Select" permissions on a Delta table allow a user to do?
- 27. How do you create an unmanaged table in Databricks?
- 28. What makes a date column a good candidate for partitioning in a Delta table?
- 29. What happens in the transaction log when you rename a Delta table using ALTER TABLE xx RENAME xx?
- 30. How would you handle an error with a check constraint and what would you recommend?
- 31. When using DESCRIBE commands, how can you retrieve table properties, comments, and partition details?
- 32. How are file statistics used in Delta Lake, and why are they important?
- 33. In the Ganglia UI, how can you detect a spill during query execution?
- 34. If a repo branch is missing locally, how can you retrieve that branch with the latest code changes?
- 35. After deleting records with a query like DELETE FROM A WHERE id IN (SELECT id FROM B), can you time travel to see the deleted records, and how can you prevent their permanent deletion?
- 36. What are the differences between DBFS and mounts in Databricks?
- 37. If the API 2.0/jobs/create is executed three times with the same JSON, what will happen? Will it execute or create three jobs?
- 38. What is DBFS in Databricks?
- 39. How do you install a Python library using %pip in a Databricks notebook?
- 40. If Task 1 has downstream Task 2 and Task 3 running in parallel, and Task 1 and Task 2 succeed while Task 3 fails, what will be the final job status?
- 41. How do you handle streaming job retries in production, specifically with job clusters, unlimited retries, and a maximum of one concurrent run?
- 42. How can you clone an existing job and version it using the Databricks CLI?
- 43. When converting a large JSON file (1TB) to Parquet with a partition size of 512 MB, what is the correct order of steps?

- 44. What happens in the target table when duplicates are dropped during a batch read and append operation?
- 45. If a column was missed during profiling from Kafka, how can you ensure that the data is fully replayable in the future?
- 46. How do you handle access control for users in Databricks?
- 47. What is the use of the pyspark.sql.functions.broadcast function in a Spark job?
- 48. What happens when performing a join on orders_id with a condition "when not matched, insert *"?
- 49. How would you write a silver load function to transform and update downstream tables from bronze?
- 50. What will be the output of CASE WHEN is_member("group") THEN email ELSE 'redacted' END AS email?
- 51. How can you use the Ganglia UI to view logs and troubleshoot a Databricks job?
- 52. How do you list or get the tasks using the API 2.0/jobs/list or 2.0/jobs/run/list?
- 53. What is unit testing, and how is it applied in a Databricks environment?
- 54. What happens when multiple display() commands are executed repeatedly in development, and what is the impact in production?
- 55. Will the option("readChangeFeed") work on a source Delta table with no CDC enabled?
- 56. How can you identify whether a tumbling or sliding window is being used based on the code provided?
- 57. What performance tuning considerations are involved with spark.sql.files.maxPartitionBytes and spark.sql.shuffle.partitions?