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Question 1

Not yet answered

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1. What is Snowflake, and how is it different from traditional data warehouses?

- ☐ a. A data lake tool for unstructured data only.
- ☐ b. A NoSQL platform with no SQL support and basic security.
- ☒ c. A cloud-native, SaaS data warehouse that decouples compute and storage, offers independent auto-scaling, supports semi-structured data, and follows pay-per-use pricing.
- ☐ d. An on-premises SQL engine with fixed resources and manual scaling.

[Clear my choice](#)**Question 2**

Not yet answered

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2. What are the advantages and disadvantages of Snowflake?

- ☐ a. Lower cost, automatic tuning; but no cloud deployment and rigid server resources.
- ☐ b. Free for unlimited use; can't handle semi-structured data.
- ☒ c. Easy SaaS setup, decoupled scaling, strong security; but uncertain costs, limited unstructured support, and vendor lock-in.
- ☐ d. Requires heavy DBA tuning; fully supports unstructured data.

[Clear my choice](#)**Question 3**

Not yet answered

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3. Explain Snowflake's architecture. How is it decoupled?

- ☐ a. Uses Hadoop for compute and local disks for storage.
- ☐ b. Single monolithic engine for compute and storage.
- ☐ c. Compute and storage are tightly integrated on local servers.
- ☒ d. Three-layer architecture (Cloud services, Compute, Storage) where storage in cloud is separate from virtual warehouses for compute, enabling non-disruptive, independent scaling.

[Clear my choice](#)

Question 4

Not yet answered

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4. What is the difference between a data warehouse, a DataMart, and a database?

- ☐ a. All are identical terms describing structured storage.
- ☐ b. Data warehouse is for OLTP; database for OLAP; DataMart is unstructured.
- ☒ c. A database stores raw data; a DataMart is a business-unit-focused subset; a data warehouse integrates data from multiple sources for enterprise analytics.
- ☐ d. DataMart is larger than data warehouse, database is cloud-based only.

[Clear my choice](#)**Question 5**

Not yet answered

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5. What are micro-partitions? How do they impact performance?

- ☐ a. Temporary in-memory caches only.
- ☐ b. Manual heap segments with no metadata.
- ☒ c. Immutable ~16 MB compressed files with automatic metadata (min/max etc.) that enable pruning and fast, efficient scans.
- ☐ d. Small user-defined partitions that slow down queries.

[Clear my choice](#)**Question 6**

Not yet answered

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6. What techniques do you use to optimize existing queries?

- ☒ a. Rewrite queries, add filters to prune partitions, size the warehouse properly, use clustering, leverage result caching.
- ☐ b. Ignore performance; let Snowflake handle it.
- ☐ c. Only rewrite entire database schemas.
- ☐ d. Use manual indexing and triggers.

[Clear my choice](#)**Question 7**

Not yet answered

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7. What is zero-copy cloning in Snowflake? Where have you used it?

- ☐ a. A compression technique.
- ☐ b. A backup that needs full copy.
- ☒ c. Metadata-only copy of a table, sharing micro-partitions until changes are made; used for dev/testing environments without extra storage cost.
- ☐ d. Full physical duplication of tables using extra storage.

[Clear my choice](#)

Question 8

Not yet answered

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8. What's the difference between masking policies and row access policies?

- ☐ a. Only masking works in BI tools.
- ☐ b. Masking is for rows, row policies for columns.
- ☐ c. Both do the same thing.
- ☒ d. Masking policies obfuscate sensitive column values; row access policies filter rows returned based on user context.

[Clear my choice](#)**Question 9**

Not yet answered

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9. Example file types for structured and unstructured data. Do relational DBs/Snowflake support unstructured data?

- ☐ a. Structured: PDF; Unstructured: CSV.
- ☒ b. Structured: JSON/CSV; unstructured: images/text blobs. Snowflake supports structured and semi-structured (JSON, Parquet), but not traditional unstructured like images.
- ☐ c. Structured: CSV, JSON; Unstructured: PDF, image. Relational DBs, including Snowflake, do not support unstructured data.
- ☐ d. No difference—everything is structured.

[Clear my choice](#)**Question 10**

Not yet answered

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10. What is automatic clustering vs manual clustering in Snowflake?

- ☐ a. Clustering isn't available in Snowflake.
- ☐ b. Both are the same process.
- ☒ c. Manual clustering uses defined clustering keys to reorganize micro-partitions; automatic clustering is a managed background process doing it for you.
- ☐ d. Only manual clustering exists.

[Clear my choice](#)

Question 11

Not yet answered

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11. What are the different types of caching in Snowflake? Explain Result Caching.

- ☐ a. There is no caching.
- ☐ b. Only operating system cache.
- ☐ c. Caching happens only in client tools.
- ☒ d. Includes result cache (global), metadata cache, and local SSD cache in compute nodes. The result cache returns identical queries instantly without compute.

[Clear my choice](#)**Question 12**

Not yet answered

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12. When would you use Time Travel in real-time scenarios?

- ☒ a. To restore accidentally deleted or updated data, compare historical data, or recreate production schema.
- ☐ b. Never—Time Travel is deprecated.
- ☐ c. Only for backups.
- ☐ d. Only internally at Snowflake.

[Clear my choice](#)**Question 13**

Not yet answered

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13. What is the use of creating views? When would you create a view?

- ☐ a. Views slow down performance; never use them.
- ☐ b. Only necessary for BI tools that don't support SQL.
- ☐ c. Views duplicate data physically.
- ☒ d. To simplify complex queries, encapsulate logic, abstract underlying schema, and provide controlled access to data.

[Clear my choice](#)**Question 14**

Not yet answered

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14. What are the various SQL joins? Write a query using INNER JOIN.

- ☐ a. Only CROSS JOIN is supported.
- ☐ b. Joins are not used in Snowflake.
- ☒ c. INNER, LEFT, RIGHT, FULL, CROSS, and SELF joins.
- ☐ d. Only INNER and OUTER joins exist.

[Clear my choice](#)

Question 15

Not yet answered

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15. What is the difference between WHERE and HAVING?

- ☐ a. They're interchangeable.
- ☒ b. WHERE filters individual rows before grouping; HAVING filters group results after aggregation.
- ☐ c. WHERE is for numeric, HAVING for text.
- ☐ d. Only WHERE works in Snowflake.

[Clear my choice](#)**Question 16**

Not yet answered

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16. Write a query using ORDER BY, GROUP BY, HAVING.

- ☐ a. Not possible in SQL.
- ☐ b. Only ORDER BY exists.
- ☒ c. `SELECT dept, COUNT() AS cnt FROM employees GROUP BY dept HAVING COUNT() > 10 ORDER BY cnt DESC;`
- ☐ d. Syntax is reversed.

[Clear my choice](#)**Question 17**

Not yet answered

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17. When use TRUNCATE instead of DELETE in Snowflake?

- ☐ a. TRUNCATE deletes table schema too.
- ☒ b. Use TRUNCATE for fast, full-table deletes when no WHERE clause is needed—it's faster and uses fewer micro-partitions.
- ☐ c. DELETE is always better.
- ☐ d. TRUNCATE is slower.

[Clear my choice](#)**Question 18**

Not yet answered

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18. How to query count of unique records?

- ☐ a. `SELECT COUNT(*) ...` is enough.
- ☐ b. Deduplication not possible.
- ☐ c. Use temporary tables only.
- ☒ d. `SELECT COUNT(DISTINCT column_name) FROM table;`

[Clear my choice](#)

Question 19

Not yet answered

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19. Difference between ROW_NUMBER, RANK, and DENSE_RANK?

- ☒ a. ROW_NUMBER gives a unique sequence to rows; RANK leaves gaps on ties; DENSE_RANK gives no gaps after ties.
- ☐ b. DENSE_RANK is deprecated.
- ☐ c. All return row counts.
- ☐ d. Same function.

[Clear my choice](#)**Question 20**

Not yet answered

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20. Can we define auto-increment ID in Snowflake?

- ☐ a. Use triggers only.
- ☐ b. No auto-increment support.
- ☒ c. No auto-increment support. Yes, using IDENTITY or sequences
- ☐ d. IDs must be manually assigned.

[Clear my choice](#)**Question 21**

Not yet answered

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21. Does primary key allow duplicate/null in Snowflake? How prevent null values?

- ☐ a. PKs enforce duplicates and nulls by default.
- ☐ b. PK automatically prevents nulls.
- ☒ c. Snowflake primary keys are informational only and don't enforce uniqueness or null restrictions. Prevent NULLS by using NOT NULL constraint.
- ☐ d. Snowflake doesn't support constraints.

[Clear my choice](#)**Question 22**

Not yet answered

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22. Query to retrieve unique records from a table with duplicates?

- ☐ a. SELECT * FROM (SELECT *, ROW_NUMBER() OVER (PARTITION BY col1, col2 ORDER BY col3) AS rn FROM my_table) t WHERE rn = 1;
- ☐ b. Use DELETE only.
- ☒ c. SELECT DISTINCT * FROM my_table;
- ☐ d. Not possible.

[Clear my choice](#)

Question 23

Not yet answered

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23. How recover original data after a mistaken update?

- ☐ a. Use flashback log.
- ☒ b. Use Time Travel.
- ☐ c. Impossible.
- ☐ d. Only restore from backup.

[Clear my choice](#)**Question 24**

Not yet answered

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24. Correct the error in this query:

```
SELECT salary * 0.10 AS bonus  
FROM employees  
WHERE bonus > 10000;
```

- ☐ a. Move the filter into HAVING or subquery.
- ☐ b. Only this.
- ☒ c. SELECT *, salary * 0.10 AS bonus FROM employees WHERE salary * 0.10 > 10000;
- ☐ d. Not possible.

[Clear my choice](#)**Question 25**

Not yet answered

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25. Types of tables in Snowflake? Create a transient table.

- ☐ a. Only temporary tables.
- ☐ b. Only permanent tables.
- ☐ c. Tables are always external.
- ☒ d. Permanent, Temporary, Transient, External tables.

[Clear my choice](#)

Question 26

Not yet answered

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26. What is the difference between tJoin and tMap components?

- ☒ a. tMap supports multiple outputs, expressions, lookup memory options; tJoin is basic
- ☐ b. tJoin lets multiple lookups; tMap only one
- ☐ c. tJoin supports expressions; tMap only exact match
- ☐ d. Both are identical

[Clear my choice](#)**Question 27**

Not yet answered

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27. What is a joblet in Talend and when is it useful?

- ☒ a. A reusable sub-job used to modularize common logic
- ☐ b. A type of job running in the cloud
- ☐ c. A mapping component replacement
- ☐ d. A compiled version of the job

[Clear my choice](#)**Question 28**

Not yet answered

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28. In Talend, what is the main distinction between ETL and ELT processes?

- ☐ a. ETL is faster than ELT.
- ☒ b. ELT extracts data, loads it into a staging area, and then transforms it; ETL extracts data, transforms it, and then loads it into the target.
- ☐ c. ELT is used for batch processing, while ETL is used for real-time processing.
- ☐ d. There is no difference; both terms are interchangeable.

[Clear my choice](#)**Question 29**

Not yet answered

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29. What is the purpose of routines in Talend?

- ☒ a. To store frequently used pieces of code for reuse across multiple jobs.
- ☐ b. To define the structure of data.
- ☐ c. To monitor job execution.
- ☐ d. To schedule jobs.

[Clear my choice](#)

Question 30

Not yet answered

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30. Difference between tAggregateRow and tAggregateSortedRow components?

- ☐ a. tAggregateSortedRow is deprecated
- ☒ b. tAggregateSortedRow requires pre-sorted input and known row count; tAggregateRow handles unsorted data dynamically
- ☐ c. tAggregateRow requires sorted input; tAggregateSortedRow works on unsorted
- ☐ d. Both are the same

[Clear my choice](#)**Question 31**

Not yet answered

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31. How do you perform incremental data loading in Talend?

- ☐ a. Always use full-load with tMap
- ☐ b. Use tFileInputDelimited only
- ☐ c. Use tBulkExec for full reloads
- ☒ d. Use tCDCInput or a lookup/timestamp filter strategy

[Clear my choice](#)**Question 32**

Not yet answered

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32. Difference between tParallelize and multi-threading in Talend?

- ☒ a. tParallelize manages parallel subprocess flows; multi-threading uses JVM-level threads keyed by component properties
- ☐ b. They're identical
- ☐ c. Multi-threading doesn't exist in Talend
- ☐ d. tParallelize is deprecated

[Clear my choice](#)**Question 33**

Not yet answered

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33. Which Talend component is used to handle errors and warnings during job execution?

- ☐ a. tFileInputDelimited
- ☒ b. tLogCatcher
- ☐ c. tMap
- ☐ d. tFileOutputDelimited

[Clear my choice](#)

Question 34

Not yet answered

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34. What is the purpose of the tParallelize component in Talend?

- ☒ a. To execute multiple sub-jobs in parallel, improving performance.
- ☐ b. To execute multiple sub-jobs sequentially.
- ☐ c. To handle errors in sub-jobs.
- ☐ d. To transform data.

[Clear my choice](#)**Question 35**

Not yet answered

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35. What are context variables in Talend?

- ☒ a. Global placeholders for environment-specific values (DB URL, credentials)
- ☐ b. Variables defined in tMap only
- ☐ c. Variables only used in joblets
- ☐ d. Java system properties

[Clear my choice](#)**Question 36**

Not yet answered

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36. What is the function of the tNormalize component in Talend?

- ☐ a. To merge multiple rows into a single row.
- ☒ b. To split a single column into multiple rows.
- ☐ c. To filter data based on conditions.
- ☐ d. To convert data from a normalized form to a denormalized form.

[Clear my choice](#)**Question 37**

Not yet answered

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37. Integer to string conversion for loading?

- ☒ a. In tMap use String.valueOf(inputColumn)
- ☐ b. Not possible
- ☐ c. Use tConvertType
- ☐ d. It occurs automatically

[Clear my choice](#)

Question 38

Not yet answered

Marked out of 1.00

38. Which Talend component is used to handle dynamic schemas, allowing for columns to be added or removed at runtime?

- ☐ a. tMap
- ☐ b. tFileInputDelimited
- ☐ c. tFileOutputDelimited
- ☒ d. tDynamic

[Clear my choice](#)**Question 39**

Not yet answered

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39. What is the purpose of the tSchemaComplianceCheck component in Talend?

- ☒ a. To validate data quality by checking if input data complies with a reference schema.
- ☐ b. To execute sub-jobs in parallel.
- ☐ c. To handle errors during job execution.
- ☐ d. To transform data.

[Clear my choice](#)**Question 40**

Not yet answered

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40. What are slowly changing dimensions?

- ☐ a. Regular tables
- ☒ b. Data warehouse concept for managing attribute changes over time (e.g., SCD Type 1/2/3)
- ☐ c. Performance tuning concept
- ☐ d. Dimensions updated only weekly

[Clear my choice](#)**Question 41**

Not yet answered

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41. What is the role of Talend's Administration Center (TAC)?

- ☐ a. To handle data transformation.
- ☒ b. To monitor and manage job execution and scheduling.
- ☐ c. To design and develop jobs.
- ☐ d. To store context variables.

[Clear my choice](#)

Question 42

Not yet answered

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42. Different ways to trigger a Talend job?

- ☐ a. Use only tREST
- ☒ b. CLI/shell script, TMC scheduling/webhook, tREST/tFileTrigger, API calls
- ☐ c. Automatically on publish
- ☐ d. Only manual

[Clear my choice](#)**Question 43**

Not yet answered

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43. Use of tWarn & tDie components?

- ☐ a. tWarn sends email
- ☐ b. Both stop job
- ☐ c. Deprecated
- ☒ d. tWarn logs a warning and continues; tDie logs an error and stops the job

[Clear my choice](#)**Question 44**

Not yet answered

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44. Significance of Talend's Global Map?

- ☐ a. Used in tMap only
- ☐ b. Not used
- ☐ c. Replaced by context variables
- ☒ d. Stores values accessible across components within a job—use for sharing calculations, flags, counters

[Clear my choice](#)**Question 45**

Not yet answered

Marked out of 1.00

45. What is an expression filter in tMap?

- ☒ a. A boolean expression to route records within tMap, enabling conditional flows
- ☐ b. Deprecated
- ☐ c. A filter on input schema
- ☐ d. For debugging only

[Clear my choice](#)

Question 46

Not yet answered

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46. Use of tFlowToIterate?

- ☒ a. Converts main flow data into iterable globalMap variables—useful for looping dynamic jobs/subjobs
- ☐ b. Only for joblets
- ☐ c. Converts string to integer
- ☐ d. Merges flows

[Clear my choice](#)**Question 47**

Not yet answered

Marked out of 1.00

47. Purpose of tSchemaComplianceCheck?

- ☐ a. Checks joblet compliance
- ☐ b. Checks performance
- ☐ c. Deprecated
- ☒ d. Validates incoming data matches schema; routes non-compliant rows to reject flow

[Clear my choice](#)**Question 48**

Not yet answered

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48. Replace nulls with default values?

- ☐ a. NVL() in tMap
- ☐ b. Both B & C
- ☐ c. Use tReplace
- ☒ d. In tMap use row.value != null ? row.value : default or StringHandling.IFNULL()

[Clear my choice](#)**Question 49**

Not yet answered

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49. Load records in batches of 1000 to DB?

- ☐ a. Use external DB script
- ☒ b. Use tLoop
- ☐ c. Use tBatch
- ☐ d. Configure "Commit every 1000" in tDBOutput

[Clear my choice](#)

Question 50

Not yet answered

Marked out of 1.00

50. Remove leading/trailing whitespaces?

- ☐ a. Both A & B
- ☒ b. In tMap use StringHandling.LTRIM(RTRIM(row.value))
- ☐ c. Use tTrim
- ☐ d. tClean

[Clear my choice](#)