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Snowflake SOL-C01 Exam Syllabus Topics:

Topic	Details

Topic 1	<ul style="list-style-type: none"> • Data Loading and Virtual Warehouses: This domain covers loading structured, semi-structured, and unstructured data using stages and various methods, virtual warehouse configurations and scaling strategies, and Snowflake Cortex LLM functions for AI-powered operations.
Topic 2	<ul style="list-style-type: none"> • Identity and Data Access Management: This domain focuses on Role-Based Access Control (RBAC) including role hierarchies and privileges, along with basic database administration tasks like creating objects, transferring ownership, and executing fundamental SQL commands.
Topic 3	<ul style="list-style-type: none"> • Data Protection and Data Sharing: This domain addresses continuous data protection through Time Travel and cloning, plus data collaboration capabilities via Snowflake Marketplace and private Data Exchange sharing.
Topic 4	<ul style="list-style-type: none"> • Interacting with Snowflake and the Architecture: This domain covers Snowflake's elastic architecture, key user interfaces like Snowsight and Notebooks, and the object hierarchy including databases, schemas, tables, and views with practical navigation and code execution skills.

Snowflake Certified SnowPro Associate - Platform Certification Sample Questions (Q85-Q90):

NEW QUESTION # 85

You have a table named 'PRODUCT SALES' with columns 'product id', 'sale date', 'region', and 'sales_amount'. You need to create a query that returns the top 3 products by total sales amount for each region. Which of the following SQL queries using window functions correctly implements this requirement?

- `""sql SELECT product_id, region, total_sales_amount, ROW_NUMBER() OVER (PARTITION BY region ORDER BY total_sales_amount DESC) AS rn FROM (SELECT product_id, region, SUM(sales_amount) AS total_sales_amount FROM PRODUCT_SALES GROUP BY product_id, region) QUALIFY rn <= 3; ""`
- `""sql SELECT product_id, region, total_sales_amount FROM (SELECT product_id, region, SUM(sales_amount) AS total_sales_amount, RANK() OVER (ORDER BY total_sales_amount DESC) AS rn FROM PRODUCT_SALES GROUP BY product_id, region) WHERE rn <= 3; ""`
- `""sql SELECT product_id, region, SUM(sales_amount) AS total_sales_amount, ROW_NUMBER() OVER (PARTITION BY region ORDER BY SUM(sales_amount) DESC) AS rn FROM PRODUCT_SALES GROUP BY product_id, region HAVING rn <= 3; ""`
- `""sql SELECT product_id, region, total_sales_amount, ROW_NUMBER() OVER (ORDER BY total_sales_amount DESC) AS rn FROM (SELECT product_id, region, SUM(sales_amount) AS total_sales_amount FROM PRODUCT_SALES GROUP BY product_id, region) WHERE rn <= 3; ""`
- `""sql SELECT product_id, region, total_sales_amount, DENSE_RANK() OVER (PARTITION BY region ORDER BY total_sales_amount DESC) AS rn FROM (SELECT product_id, region, SUM(sales_amount) AS total_sales_amount FROM PRODUCT_SALES GROUP BY product_id, region) QUALIFY rn <= 3; ""`

- A. Option B
- B. Option C
- C. Option A
- **D. Option E**
- E. Option D

Answer: D

Explanation:

Option E correctly uses the window function to assign a rank to each product within each region based on their total sales amount. The 'PARTITION BY' clause ensures that the ranking is done separately for each region. The 'QUALIFY' clause filters the results to include only the top 3 products for each region based on the calculated rank. 'DENSE_RANK' ensures continuous ranking without gaps even with tie sales amounts within each region. Option A does not work because 'QUALIFY' cannot be used on an alias within the same subquery that creates it. Options B and D do not correctly partition results by the region. Option C cannot include window functions in 'HAVING' clause, as it is incorrect SQL syntax.

NEW QUESTION # 86

You are tasked with loading data into a Snowflake table 'SALES DATA' that contains columns 'SALE ID (NUMBER)', 'PRODUCT ID (NUMBER)', 'SALE DATE (DATE)', and 'SALE AMOUNT (NUMBER)'. You have a CSV file with the same fields. However, some rows in the CSV file contain invalid date formats (e.g., '2024/01/01' instead of 'YYYY-MM-DD'). You want to handle these errors during the data loading process without aborting the entire load operation. Which of the following options BEST describes how to achieve this using the 'INSERT' command with data from a stage?

- A. Use before the insert statement to identify invalid rows, then filter those rows out using a WHERE clause in the INSERT statement.
- B. Use the function with a custom date format. If TO_DATE fails, it will throw an error and abort the insert operation but this is undesirable. There isn't a way to tell TO DATE to skip errors.
- **C. Use in the INSERT statement. Rows with invalid date formats will result in NULL values for the 'SALE_DATE' column, and the insert operation will continue. Then filter out rows where SALE DATE is NULL using a WHERE clause.**
- D. Create an error table and specify 'ON_ERROR = 'CONTINUE' file format option, then use 'TO_DATE function with a custom date format and then load data. Once loading is done, query error table to find the bad records.
- E. Create a file format with 'ON_ERROR = 'SKIP_FILE'', and Snowflake will automatically skip the file if it encounters an error. Then insert into target table.

Answer: C

Explanation:

Using allows Snowflake to attempt to convert the date, and if it fails, it returns NULL. This allows the INSERT statement to complete without errors. The data can then be filtered using a WHERE clause to exclude these invalid dates. Option A involves a separate validation step, which adds complexity and doesn't directly handle the error during the INSERT operation. Option B skips the entire file, which is not desirable as only some rows are bad. Option D aborts the whole operation which we want to avoid. Option E works, but it doesn't use INSERT statement.

NEW QUESTION # 87

How are privileges inherited in the Snowflake role hierarchy?

- A. Privileges are only inherited by the direct parent role in the hierarchy.
- B. Privileges are only inherited by direct child roles in the hierarchy.
- C. Privileges are inherited by any roles at the same level in the hierarchy.
- **D. Privileges are inherited by any roles above a given role in the hierarchy.**

Answer: D

Explanation:

Snowflake uses a hierarchical Role-Based Access Control (RBAC) model. When Role A is granted to Role B, the higher-level role (Role B) inherits all privileges of the lower-level role (Role A). This upward inheritance allows broad administrative roles (such as SYSADMIN) to automatically inherit permissions granted to subordinate roles.

Key principle: privilege inheritance flows upward, not downward.

* Parent roles inherit from child roles.

* Child roles do not inherit from parent roles.

Sibling roles do not share privileges unless explicitly granted.

Thus, roles above a given role in the hierarchy inherit privileges, making option C correct.

Options A and D incorrectly describe downward inheritance, which Snowflake does not perform.

Option B (same-level inheritance) also does not occur unless privileges are explicitly granted.

This hierarchical model simplifies governance by allowing higher-level administrative roles to centrally manage access across multiple subordinate roles.

NEW QUESTION # 88

You have created a new database named 'DEV DB' and want to grant the 'SELECT' privilege on all tables within this database to the 'ANALYST' role. You want to ensure that any new tables created in 'DEV DB' in the future automatically grant 'SELECT' to the 'ANALYST' role. Which of the following approaches achieves this?

- **A. GRANT SELECT ON FUTURE TABLES IN DATABASE DEV DB TO ROLE ANALYST;**
- B. GRANT FUTURE GRANTS SELECT ON DATABASE DEV DB TO ROLE ANALYST;
- C. GRANT SELECT ON ALL TABLES IN DATABASE DEV DB TO ROLE ANALYST;
- D. ALTER DATABASE DEV DB SET GRANTED PRIVILEGES = 'SELECT' TO ROLE ANALYST;
- E. GRANT SELECT ON DATABASE DEV DB TO ROLE ANALYST; ALTER DATABASE DEV DB SET ENABLE FUTURE GRANTS = TRUE;

Answer: A

Explanation:

The `GRANT ON FUTURE TABLES IN DATABASE TO ROLE` syntax is specifically designed to grant privileges on tables created in the future. Option A only grants the privilege on existing tables. Option B is incorrect because the privilege order is wrong, it should be `GRANT ON FUTURE TABLES IN DATABASE`. Options D and E use incorrect syntax and do not achieve the desired result.

NEW QUESTION # 89

You are using Snowsight to monitor the performance of several queries. You notice a query that took significantly longer than expected.

Which of the following actions, available directly within the Snowsight Query History Details panel, would BEST help you diagnose the cause of the slow performance?

- A. Download the query results to your local machine for further analysis.
- **B. Review the 'Query Profile' to identify specific execution stages that consumed the most resources.**
- C. Examine the SQL text of the query and identify potential areas for optimization based on syntax.
- **D. Analyze the 'Compilation Time' to determine if query compilation contributed significantly to the overall execution time.**
- **E. Check the 'Warehouse Load' graph to see if the warehouse was under heavy load during the query execution.**

Answer: B,D,E

Explanation:

The Query Profile provides a detailed breakdown of the query execution, allowing you to pinpoint specific stages that are slow. Checking the Warehouse Load helps determine if resource contention was a factor. Analyzing the Compilation Time reveals if the query spent a significant amount of time compiling before execution. Examining the SQL text directly (option A) can be helpful, but the Query Profile provides more granular performance data within Snowsight.

Downloading results (option E) does not directly aid in diagnosing performance issues within Snowflake.

NEW QUESTION # 90

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