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Snowflake SnowPro Advanced: Data Analyst Certification Exam Sample Questions (Q28-Q33):

NEW QUESTION # 28

You are building a real-time dashboard to monitor website traffic and user behavior for an e-commerce company. The data includes page views, clicks, add-to-carts, and purchases, streamed continuously into Snowflake. You need to visualize the conversion funnel

(page views -> clicks -> add-to-carts -> purchases) in real-time and identify drop-off points. Given the following table schema: "sql CREATE OR REPLACE TABLE website_events (event_timestamp TIMESTAMP NTZ, event_type VARCHAR(50), user_id VARCHAR(100), page_url VARCHAR(255)); Which approach, including code snippets, would be the MOST efficient and scalable way to achieve this real-time conversion funnel visualization, taking into account the high volume of streaming data?"

- A. Periodically query the 'website_events' table every 5 minutes, calculate conversion rates for each stage of the funnel using SQL aggregate functions, and update a static chart in a reporting tool.
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- B. Load all 'website_events' table data into Python Pandas dataframes and use libraries to find the conversion rate in real time.
- C. Export the 'website_events' data to a message queue (e.g., Kafka) and use a stream processing framework (e.g., Flink) to calculate conversion funnel metrics. Then, load the results into a separate table in Snowflake and visualize it using a BI tool.
- D. Create a Snowflake Stream on the 'website_events' table. Develop a Snowpipe to continuously ingest data into the table. Utilize a BI tool like Tableau connected directly to the 'website_events' table. Build several dashboards each for event type.
- E. Create a Snowflake Stream on the 'website_events' table. Create a Snowpipe to ingest data, and build a materialized view that pre-calculates the conversion funnel metrics. Connect a real-time dashboarding tool (e.g., Apache Superset, Grafana) to the materialized view to display the funnel in real-time.
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Answer: E

Explanation:

Option C is the most efficient and scalable. A Snowflake Stream allows you to track changes to the 'website_events' table in real-time. A Snowpipe enables continuous data ingestion. A materialized view pre-calculates the conversion funnel metrics, significantly improving query performance compared to querying the base table directly, especially with high data volumes. Connecting a real-time dashboarding tool to the materialized view provides a real-time view of the funnel. Option A involves periodic querying, which is less real-time and less efficient. Option B suggests direct connection with a BI tool without pre-aggregating the Data, resulting into dashboard performance issue. Option D introduces unnecessary complexity with external message queues and stream processing frameworks. Exporting data to Python dataframe is not scalable for large data volumes.

NEW QUESTION # 29

A healthcare organization uses Snowflake to store patient data and needs to create a dashboard to monitor key performance indicators (KPIs) such as patient readmission rates, average length of stay, and patient satisfaction scores. The dashboard should allow analysts to filter data by hospital, department, and time period. Considering data governance and security best practices, which of the following approaches should you implement to ensure that analysts only have access to the data relevant to their roles and responsibilities, while also optimizing dashboard performance and maintainability? Choose all that apply.

- A. Build a single view that joins all necessary tables and use the view to power the dashboards. Apply role-based access control to the view.
- B. Grant all analysts full access to the entire patient data warehouse and rely on the dashboard's built-in filtering capabilities to restrict data visibility.
- C. Create a set of stored procedures that encapsulate the logic for retrieving and aggregating the KPI data. Grant analysts execute privileges on these stored procedures, but not direct access to the underlying tables.
- D. Implement data masking techniques to redact sensitive patient information (e.g., names, addresses) within the dashboard visualizations. Ensure that data masking policies are applied consistently across all dashboards and reports.
- E. Create separate Snowflake roles for different analyst groups (e.g., hospital analysts, department analysts) and grant each role access only to the specific views or tables containing the data they need. Apply row-level security policies to filter data based on the user's role.

Answer: C,D,E

Explanation:

Option A enforces role-based access control at the data layer, preventing unauthorized access. Option C provides a controlled interface for data access, enhancing security and simplifying data governance. Option D protects sensitive data within the dashboard. Granting full access (B) violates security principles. Single view can become unmanageable.

NEW QUESTION # 30

A Data Analyst runs a query in a Snowflake worksheet, and selects a numeric column from the result grid. What automatically-generated contextual statistic can be visualized?

- A. MIN/MAX values for the column
- B. A key distribution
- C. A frequency distribution, displayed for all numeric columns
- D. A histogram, displayed for all numeric, date, and time columns

Answer: D

Explanation:

One of the standout features of the Snowsight interface is its ability to perform automatic Data Profiling.

When a Data Analyst executes a query, Snowflake doesn't just return a raw grid of data; it analyzes the result set to provide immediate visual insights.

When you click on a column header in the results pane, a summary statistics panel appears. For numeric, date, and time columns, Snowflake automatically generates a histogram (Option A). This histogram provides a visual representation of the data distribution, allowing the analyst to quickly identify patterns, concentrations of values, or significant outliers without writing additional SQL code.

Evaluating the Options:

* Option B: While a histogram is a type of frequency distribution, Option A is more accurate because Snowsight also provides these visualizations for date and time types, not just integers/floats.

* Option C: While MIN and MAX values are displayed in the summary panel, they are text-based statistics, not the "visualized" contextual statistic (the histogram) emphasized in the question.

* Option D: "Key distribution" is not a standard visualization term used in the Snowsight profiling tool.

* Option A: Is the 100% correct answer. It highlights the breadth of the profiling tool (covering numbers, dates, and times) and the specific visual element (the histogram) that makes exploratory data analysis significantly faster for a Data Analyst.

NEW QUESTION # 31

A Data Analyst executes a query in a Snowflake worksheet that returns the total number of daily sales, and the total amount for each sale. How can the Analyst check the distribution of the total amount, without running the query again?

- A. Click on the column header in the results and review the histogram.
- B. Go to Chart and select a bar chart that contains the two variables.
- C. Go to Chart and select a histogram that includes the two variables.
- D. Call the WIDTH_BUCKET function.

Answer: A

Explanation:

One of the most powerful features of the Snowsight interface for a Data Analyst is the automatic data profiling provided in the results pane. Snowflake automatically calculates statistics and visual distributions for the result set of any query executed in a worksheet, provided the result set is not excessively large.

When the Analyst views the query results, they can simply click on the column header for the "total amount" column. This action opens a summary pane that displays key descriptive statistics such as the mean, sum, and a histogram showing the frequency distribution of the values in that specific column. This allows for immediate visual analysis of data skew, outliers, or common ranges without requiring the analyst to write additional SQL or move the data to an external visualization tool.

Evaluating the Options:

* Option A is the Correct answer. This is the fastest, built-in way to perform "exploratory data analysis" (EDA) on a result set within the UI.

* Option B and C are incorrect because while Snowsight does have a "Chart" tab, creating a chart requires manual configuration and is a separate step from the automatic profiling features found in the column headers.

* Option D is incorrect because calling the WIDTH_BUCKET function would require the Analyst to run the query again with modified SQL logic, which explicitly contradicts the requirements of the question.

This feature significantly enhances the Data Analysis workflow by providing "at-a-glance" insights into data quality and distribution directly within the development environment.

NEW QUESTION # 32

You are preparing to load data from an internal stage that contains multiple CSV files into a Snowflake table. You need to ensure that only files matching a specific pattern are loaded (e.g., files starting with 'sales_'). You also need to transform the date column (located in the third position of each CSV file) from 'YYYYMMDD' to 'YYYY-MM-DD' format during the load. The target table 'SALES' has columns 'product_id', and 'region'. Which combination of options correctly filters the files and transforms the date format during the load process?

□

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

Answer: B

Explanation:

Option D is correct. It uses the 'PATTERN' parameter to filter files starting with 'sales_' and ending with '.csv'. It then uses the TRANSFORM AS SELECT clause to select and transform the data. Inside the select clause, it correctly uses 'substr' to reformat the date and 'TO_DATE' to convert the re-formatted string into a DATE datatype. The 'ON_ERROR = 'SKIP_FILE' is a good practice for handling potential errors. Option A has an invalid parameter declaration within the COPY INTO command and does not use PATTERN, making the filter inaccurate. Option B attempts to define date format at file format level, but date transformation is required and FILES filter declaration is invalid. Option C uses 'TRANSFORMATION' instead of 'TRANSFORM AS SELECT', which is incorrect and will cause an error. Option E attempts to define DATE FORMAT with the wrong TYPE and is missing concatenation of DATE string.

NEW QUESTION # 33

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