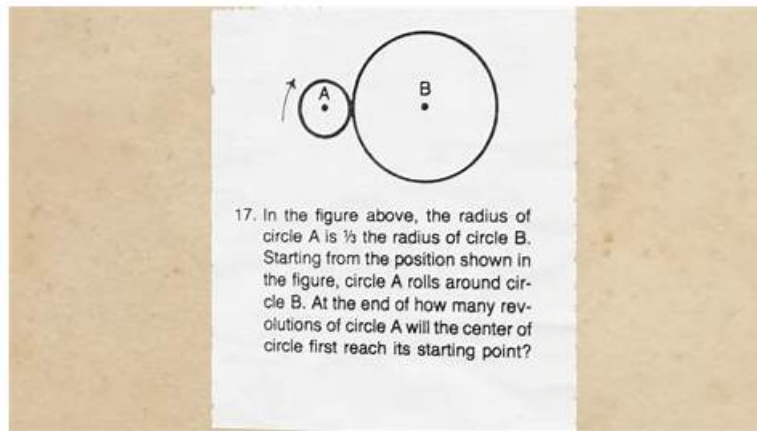


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Salesforce Analytics-Con-301 Exam Syllabus Topics:

| Topic | Details |
|---------|---|
| Topic 1 | <ul style="list-style-type: none"> • Data Visualization: This section evaluates the Tableau Consultant's ability to design effective visual analytics solutions. It involves creating dashboards and visual reports that enhance user understanding, employing techniques like dynamic actions and advanced chart types, and ensuring performance optimization for an interactive user experience. |
| Topic 2 | <ul style="list-style-type: none"> • Data Analysis: This domain targets Tableau Consultants to plan and prepare data connections effectively. It includes recommending data transformation strategies, designing row-level security (RLS) data structures, and implementing advanced data connections such as Web Data Connectors and Tableau Bridge. Skills in specifying granularity and aggregation strategies for data sources across Tableau products are emphasized. |
| Topic 3 | <ul style="list-style-type: none"> • Business Analysis: This section of the exam measures skills of Tableau Consultants focusing on evaluating the current state of analytics within an organization. It covers mapping business needs to Tableau capabilities, translating analytical requirements to best practices in Tableau, and recommending appropriate deployment options like Tableau Server or Tableau Cloud. It also includes evaluating existing data structures for supporting business needs and identifying performance risks and opportunities. |
| Topic 4 | <ul style="list-style-type: none"> • Business Consulting: For Tableau Consultants, this section involves designing and troubleshooting calculations and workbooks to meet advanced analytical use cases. It covers selecting appropriate chart types, applying Tableau's order of operations in calculations, building interactivity into dashboards, and optimizing workbook performance by resolving resource-intensive queries and other design-related issues. |
| Topic 5 | <ul style="list-style-type: none"> • Data Management: This part focuses on establishing governance and support for published content. Tableau Consultants are expected to manage data security, publish and maintain data sources and workbooks, and oversee content access. It includes applying governance best practices, using metadata APIs, and supporting administration functions to maintain data integrity and accessibility. |

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Salesforce Certified Tableau Consultant Sample Questions (Q38-Q43):

NEW QUESTION # 38

A client wants guidance for Creators to build efficient extracts from large data sources. What are three Tableau best practices that the Creators should use? Choose three.

- A. Use aggregate data for visible dimensions, whenever possible.
- B. Keep only the data required for analysis by using extract filters.
- C. Use only live connections as they are always faster than extracts.
- D. Include all the data from the original data source in the extract.
- E. Hide all unused fields.

Answer: A,B,E

Explanation:

To build efficient extracts from large data sources, it is crucial to minimize the load and optimize the performance of the extracts:

A . Keep only the data required for analysis by using extract filters: This best practice involves using filters to reduce the volume of data extracted, thus focusing only on the data necessary for analysis.

B . Use aggregate data for visible dimensions, whenever possible: Aggregating data at the time of extraction reduces the granularity of the data, which can significantly improve performance and reduce the size of the extract.

E . Hide all unused fields: Removing fields that are not needed for analysis from the extract reduces the complexity and size of the data model, which in turn enhances performance and speeds up load times.

These practices are endorsed in Tableau's official documentation and training sessions as effective ways to enhance the performance of Tableau extracts and optimize dashboard responsiveness.

NEW QUESTION # 39

A worksheet uses a LOOKUP function to display Sales by Month, Year of Order Date, and sales from the last 12 months. A consultant wants to use a Relative Date Filter to filter for data from the last 12 months.

However, when the consultant does this, the prior year's data is removed from the sheet.

Which two actions should the consultant take to retain the prior year's data after applying the filter? Choose two.

- A. Replace the LOOKUP function with a FIXED Level of Detail (LOD) expression.
- B. Set the Relative Date filter as a Context Filter instead of Measure Filter.
- C. Create the following calculation: LOOKUP(MIN([Order Date]),0). Filter on that calculation instead of Order Date.
- D. Create the following calculation: DATEDIFF('month', [Order Date], {MAX([Order Date])}) < 12. Hide all False values.

Answer: B,C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

A LOOKUP table calculation requires access to rows outside the filtered date range so that the calculation can reference prior data. When a Relative Date Filter removes older data before the table calculation is evaluated, the LOOKUP loses the needed rows, causing the prior year's data to disappear.

Tableau's order of operations states:

* Relative Date Filters act early (at the dimension filter stage).

* Table calculations act very late.

* To preserve table calculation context, filters must not remove necessary rows.

Two Tableau-documented approaches address this:

Explanation for B

Setting the Relative Date Filter as a Context Filter allows table calculations to operate on the full dataset needed for LOOKUP. Context filters create a separate temporary table, and subsequent filters like table calculations evaluate after the context is established.

This ensures older rows are still available to the LOOKUP function.

Explanation for C

Creating a field such as:

LOOKUP(MIN([Order Date]), 0)

and filtering on this field instead of Order Date converts the filter into a table calculation filter, which occurs after the LOOKUP computation. Tableau documentation explains that table calculation filters preserve the full dataset required for the LOOKUP window.

This ensures that the LOOKUP still has access to last year's values even when filtering for the current 12 months.

Why A is incorrect

Replacing LOOKUP with an LOD changes the logic entirely.

LOD expressions cannot replicate moving-window or lag-type behavior.

Why D is incorrect

DATEDIFF logic can replicate a rolling window, but hiding False values is essentially a manual filter and does not preserve the integrity of the LOOKUP's required partitioning. It also contradicts Tableau's recommended approach for maintaining table calculation context.

* Tableau Order of Operations explaining why table calculation filters preserve data for LOOKUP.

* Tableau documentation on context filters and how they allow more data to remain available for downstream table calculations.

* Tableau guidance on how Relative Date Filters interact with table calculations.

* Best practices for preserving table calculation window rows when filtering.

NEW QUESTION # 40

A multi-national company wants to have a Tableau dashboard that will provide country-level information for both its forecast summaries and year-on-year metrics. The company wants to toggle between these two views while leaving main key performance indicators (KPIs) visible on the main dashboard.

Which method is the most efficient in achieving the company's requirements?

- A. Create a dashboard with the sheets containing the main KPIs and the forecast summary worksheet.
 - . Duplicate this dashboard and replace the forecast view worksheet with the year-on-year metrics worksheet.
 - . Add navigation buttons to both dashboards.
- B. Create a single worksheet with all the measures required for both the forecast summary and the year-on-year views.
 - . Create a Boolean parameter and a corresponding calculated field with the following calculation: True.
 - . Add a blank dashboard object and in the Layout tab, check the box for "Control visibility using value" and select the parameter you created.
- C. Create a Boolean parameter with the two names of the views as aliases and a corresponding calculated field with the following calculation: True.
 - . Add the forecast summary sheet to the dashboard and add the year-on-year metrics sheet to the same dashboard as a Floating dashboard object.
 - . Add the calculated fields as a Detail under the Marks card of the floating view, create a "Change Parameter" action, and set the "Target Parameter" and "Source Fields" to the parameter and calculated field you created.
 - . Check the box for "Control visibility using value" in the Layout tab of the floating view and select the parameter you created.
- D. Create a parameter that accepts values from a list that contains "Forecast View" and "Year-on-Year View."
 - . Right-click the parameter and select Add to Sheet for both worksheets.
 - . Navigate back to the dashboard and to the upper corner of the two worksheets.
 - . Enable the Use as Filter option.

Answer: C

Explanation:

The most efficient method for toggling between two views (forecast summaries and year-on-year metrics) while keeping main KPIs visible involves using a parameter and calculated fields for controlling visibility:

* Create a Boolean Parameter: This parameter will have two aliases representing the two views ("Forecast View" and "Year-on-Year View"). This allows the user to select which view they wish to see directly from the dashboard.

* Calculated Field: Create a calculated field that always returns True. This field acts as a constant placeholder to enable the visibility control tied to the parameter.

* Dashboard Setup: Place both the forecast summary and the year-on-year metrics sheets on the dashboard. Set the year-on-year metrics sheet as a floating object over the forecast summary.

* Visibility Control: Use the "Control visibility using value" option in the Layout tab for the floating year-on-year metrics view. Tie this setting to the Boolean parameter so that changing the parameter will show or hide this view without affecting the main KPIs displayed on the dashboard.

* Interactivity: Implement a "Change Parameter" dashboard action where selecting different options in the dashboard (e.g., clicking on certain parts) triggers the parameter to change, thus toggling the visible view.

References

This method leverages Tableau's dashboard interactivity features including parameters, calculated fields, and visibility settings, as recommended in Tableau's user guide on dynamic dashboard design.

NEW QUESTION # 41

A consultant wants to improve the performance of reports by moving calculations to the data layer and materializing them in the extract.

Which type of calculation is the consultant able to move?

- A. A calculation that contains parameters
- B. A calculation that contains an aggregation
- C. A row-level calculation
- D. A calculation that contains table calculation functions

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Tableau allows certain calculations to be materialized in extracts, meaning they are precomputed and stored inside the .hyper file to improve performance.

According to Tableau's extract documentation:

* Materializable calculations must be compatible with the extract engine and must not depend on dynamic, view-based, or post-query logic.

* Only row-level calculations and aggregation-level calculations without dependencies on runtime context can be materialized.

* Tableau cannot materialize any calculation containing:

* Table calculation functions

* Functions requiring post-aggregation logic

* View-dependent elements

* Parameters that need runtime evaluation

Evaluation of the choices:

A). A row-level calculation - Correct

Row-level calculations operate on each record individually before aggregation.

Tableau documentation specifies that these calculations can be pushed down into the extract and materialized because they do not depend on the visualization or user interaction.

Examples include concatenation, arithmetic, string manipulation, and row-based logic such as:

```
[Sales] * [Quantity] or IF [Region] = 'West' THEN 1 END
```

These can be precomputed inside the extract, improving performance.

B). A calculation that contains table calculation functions - Not allowed Table calculations (WINDOW_SUM, INDEX, RUNNING_SUM, RANK, etc.) depend on the table structure after aggregation and query execution.

Therefore, Tableau documentation states they cannot be materialized in extracts.

C). A calculation that contains parameters - Not allowed

Parameters are evaluated at runtime, meaning the user can change their value.

Because of this, Tableau cannot permanently compute and store such a calculation inside an extract.

D). A calculation that contains an aggregation - Generally not materialized Aggregated calculations often depend on query context and cannot always be materialized.

Only simple, context-free aggregations might be materialized, but Tableau explicitly warns that aggregations are not guaranteed candidates for extract materialization.

Thus, this is not the best answer compared to row-level logic.

Conclusion

Only row-level calculations meet Tableau's exact requirements for materialization in extracts.

References From Tableau Consultant Documentation

* Tableau Extract documentation describing materializable calculation types.

* Tableau guidance stating table calculations and parameter-dependent calculations cannot be materialized.

* Extract optimization guidelines describing row-level logic as eligible for materialization.

NEW QUESTION # 42

Which technique should a Tableau consultant use to make visualizations faster?

- A. Use COUNTD to aggregate data as much as possible.
- B. Include more sheets to increase rendering speed.
- C. Use Show Relevant Values on any filters.
- **D. Remove any unneeded dimensions from the Detail shelf.**

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Tableau performance documentation explains that rendering speed is strongly affected by the number of marks that Tableau must draw. Each dimension placed on the Detail shelf increases the granularity of the view and increases the number of marks in the visualization.

Removing unnecessary dimensions:

- * Reduces the number of marks
- * Reduces rendering time
- * Decreases memory and CPU usage
- * Improves interactive performance

Option A (Show Relevant Values) can slow performance because Tableau must dynamically calculate relevancy each time filters change.

Option C is incorrect because COUNTD is one of the slowest aggregate functions in Tableau and does not speed visualization.

Option D is incorrect because adding more sheets increases dashboard load time and rendering workload.

Removing unnecessary fields from Detail is a documented best practice for improving visualization speed.

* Tableau Performance Checklist recommending reducing marks and removing unnecessary dimensions.

* Rendering optimization guidance explaining how dimensions on Detail expand mark counts.

* Best practices discouraging overuse of COUNTD.

NEW QUESTION # 43

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