

# **Top 80 Tableau**

## **Interview Questions**

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*( With Answers )*

# Top 80 Tableau Interview Questions

## SECTION 1: Tableau Basics

### 1. What is Tableau?

Tableau is a powerful data visualization tool used for converting raw data into interactive dashboards and graphs.

### 2. What are the different Tableau products?

- Tableau Desktop
- Tableau Public
- Tableau Online
- Tableau Server
- Tableau Prep

### 3. What are dimensions and measures?

- Dimensions: Categorical data (e.g., Country, Category)
- Measures: Numeric, quantitative data (e.g., Sales, Profit)

### 4. What is a worksheet, dashboard, and story?

- Worksheet: Single view
- Dashboard: Collection of views
- Story: Sequence of dashboards or worksheets

### 5. What is a filter in Tableau?

Used to restrict the data displayed in a view.



## SECTION 2: Data Connection & Preparation

### 6. What data sources does Tableau support?

Excel, CSV, SQL, Oracle, Google Sheets, Snowflake, SAP, and over 50+ connectors.

### 7. What is the difference between live and extract connection?

- Live: Real-time connection to the database
- Extract: Cached snapshot of the data, faster

### 8. What is a .twb vs .twbx file?

- .twb: Contains instructions to build the report (no data)
- .twbx: Packaged workbook including data and assets

### 9. What is a Tableau Data Extract (TDE)?

A compressed snapshot of data for offline use and better performance.

### 10. What is Tableau Prep used for?

For cleaning, reshaping, and preparing data before visualization.

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## SECTION 3: Data Visualization & Charts

### 11. Name 5 common charts in Tableau.

Bar chart, Line chart, Pie chart, Map, Scatter plot

### 12. What is a dual-axis chart?

Allows comparing two measures in the same view with independent axes.

### 13. What is a combined axis chart?

Shows multiple measures on the same axis for easier comparison.

### 14. What is a heat map in Tableau?

A color-coded matrix that helps identify patterns and correlations.

### 15. What is a tree map?

Visualizes hierarchical data using nested rectangles.

**16. What is a bullet chart?**

Compares performance against a target using bars and reference lines.

**17. What is a histogram?**

Displays the distribution of a continuous measure.

**18. What is a box-and-whisker plot?**

Shows statistical summaries like median, quartiles, and outliers.

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## **SECTION 4: Calculated Fields & Functions**

**19. What is a calculated field?**

A custom field created using formulas to extend data.

**20. Difference between table calculation and calculated field?**

- Table calculation: Computed on displayed data
- Calculated field: Computed at row-level before display

**21. Name a few table calculations.**

- INDEX()
- RANK()
- WINDOW\_SUM()
- RUNNING\_SUM()

**22. What is LOD expression?**

Level of Detail expressions control the granularity at which calculations are performed.

**23. Types of LODs in Tableau?**

- FIXED
- INCLUDE
- EXCLUDE

#### 24. Syntax of FIXED LOD?

```
{FIXED [Region] : SUM([Sales])}
```

#### 25. What is difference between INCLUDE and FIXED?

- INCLUDE: Adds dimension to existing view level
- FIXED: Ignores view level and fixes the dimension

#### 26. When to use FIXED LOD?

When the calculation must remain the same regardless of filters in the view.

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## SECTION 5: Filters in Tableau

#### 27. Types of filters in Tableau?

- Extract Filter
- Data Source Filter
- Context Filter
- Dimension Filter
- Measure Filter
- Table Calculation Filter

#### 28. What is a context filter?

Used to create a dependent filter; it acts as a primary filter.

#### 29. What is cascading filter?

One filter affects the options available in another.

#### 30. What is a quick filter?

UI element allowing users to dynamically filter data.

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## SECTION 6: Maps & Geographical Data

### 31. What is geocoding in Tableau?

Translating location data (e.g., city, country) into geographic coordinates.

### 32. How to show cities on a map?

Use the geographic dimension (like City) and drag it to the view; Tableau maps it.

### 33. What is a filled map?

Displays geographic areas filled with color based on a measure.

### 34. How to plot multiple layers on a map in Tableau?

Use dual-axis and synchronize both axes.

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## SECTION 7: Performance Optimization

### 35. How to improve Tableau dashboard performance?

- Use extracts
- Reduce filters
- Limit data
- Optimize calculations
- Avoid large joins

### 36. How to monitor dashboard performance?

Use Performance Recording or Tableau Server logs.

### 37. When to use extract over live connection?

When performance is a concern and real-time updates are not needed.

### 38. How to reduce the size of a Tableau workbook?

Remove unused fields, hide sheets, use extracts, optimize joins.

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## SECTION 8: Security & Sharing

### 39. What is row-level security in Tableau?

Restricting data access per user using filters or calculated fields.

### 40. How do you implement RLS in Tableau?

Using user filters, Tableau Server username, and calculations.

### 41. How to publish a dashboard?

Via Tableau Server, Tableau Online, or Tableau Public.

### 42. What is Tableau Server?

Enterprise platform to publish, share, and manage Tableau content.

### 43. What is Tableau Public?

A free version of Tableau where dashboards are accessible publicly.

### 44. What is Tableau Online?

Cloud-hosted Tableau Server by Tableau.



## SECTION 9: Joins, Blends & Relationships

### 45. What is the difference between join and blend?

- Join: At data source level
- Blend: At visualization level using linking fields

### 46. What types of joins does Tableau support?

Inner, Left, Right, Outer

### 47. What is a data blend in Tableau?

Combining data from two sources with a common field (primary and secondary).

### 48. What is a relationship in Tableau 2020+?

Logical layer connection that maintains native levels of detail.



## SECTION 10: Tableau Server & Admin

### 49. What is a project in Tableau Server?

A folder to organize workbooks and dashboards.

### 50. What are site roles?

User access levels like Viewer, Explorer, Creator, etc.

### 51. Can you schedule extract refresh in Tableau?

Yes, using Tableau Server or Tableau Online.

### 52. How to automate Tableau dashboard updates?

Using extract schedules or Tableau Prep Conductor.

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## SECTION 11: Real-Time & Advanced Topics

### 53. Can Tableau work with real-time data?

Yes, using live connections and auto-refresh options.

### 54. What is parameter in Tableau?

User input control used in calculations, filters, and reference lines.

### 55. Difference between filter and parameter?

- Filter: Based on field
- Parameter: Standalone and customizable

### 56. What is dynamic parameter?

Automatically updates its list of values based on the data source.

### 57. What is a dashboard action?

Used to filter, highlight, or navigate between dashboards.

### 58. What is a set?

Custom subset of data based on conditions.

### 59. Difference between set and group?

- Group: Combines members into one category
- Set: Dynamic or static subset for advanced filtering



## SECTION 12: Scenario-Based Questions

60. How do you show top 5 and others in a bar chart?

Create a set or use a calculated field with `RANK()`.

61. How do you compare current vs previous year sales?

Use `LOOKUP(SUM([Sales]), -1)` or `DATEADD()` with table calc.

62. How to calculate YoY growth?

$$(\text{Current Year Sales} - \text{Last Year Sales}) / \text{Last Year Sales}$$

63. How to show running total in Tableau?

Use the table calculation: `Running Total`.

64. How to apply multiple filters to one sheet but not others?

Use "Apply to selected worksheets" option.

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## SECTION 13: Miscellaneous Questions

65. What is `ZN()` in Tableau?

Replaces nulls with zero.

66. What does `ATTR()` function do?

Returns a value if all rows have the same value; otherwise, returns `*`.

67. What is difference between `COUNT()` and `COUNTD()`?

- `COUNT`: All rows
- `COUNTD`: Distinct values only

68. How to handle null values in Tableau?

Use `IFNULL()` or `ZN()` functions.

69. What is a story point in Tableau?

A sequence of dashboards for data storytelling.

70. How to add reference line in Tableau?

Right-click on axis → Add Reference Line → Choose constant, average, or field.

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## SECTION 14: Soft Skills & Best Practices

### 71. How do you choose the right chart?

Based on data type, insight goal, and audience.

### 72. How do you design for performance?

Use extracts, avoid complex joins, aggregate, limit filters.

### 73. What's the difference between workbook and dashboard?

- Workbook: Contains sheets and dashboards
- Dashboard: Visual combination of multiple sheets

### 74. How do you ensure dashboard readability?

Clear titles, fewer colors, intuitive layouts, proper filters.

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## SECTION 15: Integration & API

### 75. Can Tableau be embedded in web applications?

Yes, using Tableau JavaScript API or Tableau Embedded Analytics.

### 76. Can Tableau connect to Python or R?

Yes, using TabPy or R integration for advanced analytics.

### 77. What is Web Data Connector (WDC)?

Connects Tableau to web-based data sources via APIs.

### 78. Can Tableau be used for predictive analytics?

Yes, using trend lines, forecasting, and R/Python integration.

### 79. Can Tableau send alerts?

Yes, through data-driven alerts in Tableau Server/Online.

### 80. Can you automate Tableau tasks?

Yes, using Tableau REST API, Python, or Tableau Prep Conductor.