Best Practices for Dashboard Performance

Lovekesh Babbar

Sales Consultant, Strategic Accounts
Tableau

#data19
Lovekesh is NOT a morning person.
Lovekesh is NOT a morning person.
Why does performance matter?
We are data people.
A Data Story Should Be

- Engaging
- Purposeful
- Truthful
ONE SIZE DOES NOT FIT ALL

Name
Title, Organization
TABLEAU’S ADAPTIVE PLATFORM

Data Sources
- DBMS
- Cloud
- Big Data
- OLAP
- Files

Tableau Desktop
- DW
- Data Lake

Tableau Prep

Tableau Server
- Dashboards
- Data Sources

Dashboards
- Mobile
- Embedded

Ask Data
- Web Edit
Executive Dashboards

Sales Summary

$2,297,201
Bookings YTD

12%
Profitability

9,994
Orders

$286,397M
Total Sales
Sales Analysis

This dashboard allows you to analyze your data to help uncover the unknown unknowns.

Breakdown by Segment:
- Home Office: 94%
- Consumer: 101%
- Corporate: 101%

Small Multiples Analysis
- West
- East
- Central
- South

Ad Hoc Analysis Tools
what are my top products by sales in last 2 years

top Product Name by sum of Sales, Order Date in the last 2 years

top Product Name by sum of Sales, Order Date this year

top Product Name by sum of Sales, Order Date in the last year

top Product Name by sum of Sales
Embedded Analytics
Designer & Builder
Tools for effective troubleshooting
## Tips to improve performance

### Factors affecting dashboard performance

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Increase</strong></td>
<td><strong>Increase</strong></td>
<td><strong>Reduce</strong></td>
<td><strong>Simplify</strong></td>
<td><strong>Out of Control</strong></td>
</tr>
<tr>
<td>Visual Filters</td>
<td>Aggregation rules</td>
<td># of data sources</td>
<td>Expensive calcs</td>
<td>Hardware</td>
</tr>
<tr>
<td>Hidden Conta.</td>
<td>Indexing</td>
<td></td>
<td></td>
<td>Network Latency</td>
</tr>
<tr>
<td>Tabular Data</td>
<td>Cascading Filters</td>
<td></td>
<td></td>
<td>Data Gravity</td>
</tr>
<tr>
<td>Sorting</td>
<td>Data types</td>
<td></td>
<td></td>
<td>Encryption Layers</td>
</tr>
<tr>
<td># of sheets</td>
<td>Top N values</td>
<td></td>
<td></td>
<td>Database Type</td>
</tr>
<tr>
<td># of filters</td>
<td>Context Filters</td>
<td></td>
<td></td>
<td>Database Tuning</td>
</tr>
<tr>
<td>COUNTD</td>
<td>Viz in Tooltip</td>
<td></td>
<td></td>
<td>Database address</td>
</tr>
<tr>
<td>Maps</td>
<td>Expensive calcs</td>
<td></td>
<td></td>
<td>Database load</td>
</tr>
<tr>
<td>Pages</td>
<td>Dashboard Layout</td>
<td></td>
<td></td>
<td>Server load</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Reduce</strong></td>
<td><strong>Reduce</strong></td>
<td><strong>Simplify</strong></td>
<td><strong>Out of Control</strong></td>
<td></td>
</tr>
<tr>
<td>Blending</td>
<td>Aggregation rules</td>
<td></td>
<td></td>
<td>Hardware</td>
</tr>
<tr>
<td>Custom SQL</td>
<td>Indexing</td>
<td></td>
<td></td>
<td>Network Latency</td>
</tr>
<tr>
<td># of Marks</td>
<td>Cascading Filters</td>
<td></td>
<td></td>
<td>Data Gravity</td>
</tr>
<tr>
<td></td>
<td>Data types</td>
<td></td>
<td></td>
<td>Encryption Layers</td>
</tr>
<tr>
<td></td>
<td>Top N values</td>
<td></td>
<td></td>
<td>Database Type</td>
</tr>
<tr>
<td></td>
<td>Context Filters</td>
<td></td>
<td></td>
<td>Database Tuning</td>
</tr>
<tr>
<td></td>
<td>Viz in Tooltip</td>
<td></td>
<td></td>
<td>Database address</td>
</tr>
<tr>
<td></td>
<td>Expensive calcs</td>
<td></td>
<td></td>
<td>Database load</td>
</tr>
<tr>
<td></td>
<td>Dashboard Layout</td>
<td></td>
<td></td>
<td>Server load</td>
</tr>
</tbody>
</table>

### Tips to improve performance

- Visual Filters
- Hidden Conta.
- Tabular Data
- Sorting
- # of sheets
- # of filters
- COUNTD
- Maps
- Pages
- Blending
- Custom SQL
- # of Marks
- Tableau Extra
- Data for Anal.
- Data Model
- Multi-table
- Filter Conditions
- Connectors
- Aggregation rules
- Indexing
- Cascading Filters
- Data types
- Top N values
- Context Filters
- Viz in Tooltip
- Expensive calcs
- Dashboard Layout
- Sets
- Set Actions
- Complex LOD calc
- Complex window calc
- Hardware
- Network Latency
- Data Gravity
- Encryption Layers
- Database Type
- Database Tuning
- Database address
- Database load
- Server load
Switch to Live Demo
Best Practices for Dashboard Performance
Thu | 4:00 PM – 5:00 PM | Level 2 – Oceanside F
Designing Efficient Workbooks: Live on Stage
Fri | 12:15 PM – 1:15 PM

Vroom Vroom! Performance Tuning Your Dashboards
Wed, Thu, Fri 1:15 PM
Please complete the session survey in the mobile app.

View ‘My Evaluations’ in the menu or find your session under ‘Schedule’.