



PLEASE FILL OUT YOUR EVALUATIONS





TM

SOFTWARE SOLUTIONS

Getting from Answers/Dashboards to Data Visualization

Kscope 2021

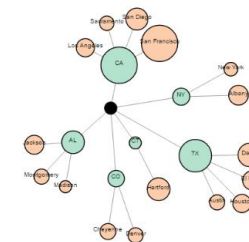
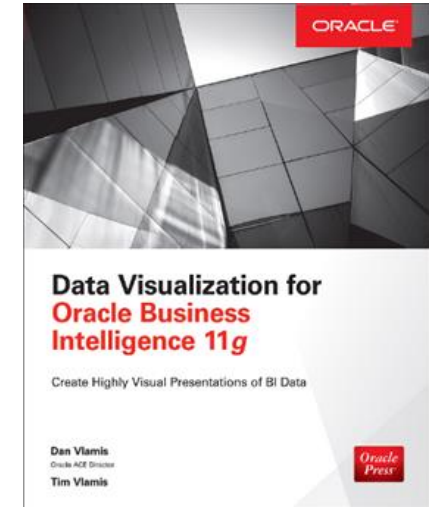
Dan Vlamis

June 29, 2021

@VlamisSoftware

Vlamis Software Solutions

- Vlamis Software founded in 1992 in Kansas City, Missouri
- Developed 400+ Oracle BI and analytics systems
- Specializes in Oracle-based:
 - Enterprise Business Intelligence & Analytics
 - Analytic Warehousing
 - Machine Learning and Predictive Analytics
 - Data Visualization
 - ETL and data integration
- Multiple Oracle ACEs, consultants average 15+ years
- Creators of the [Force Directed Graph Plugin](#) on [Oracle Analytics Library](#)
- www.vlamis.com (blog, papers, newsletters, services)
- Co-authors of book “Data Visualization for OBI 11g”





Vlamiis Presentations

Presenter	Time	Title
Tim Vlamiis Mike Caskey	June 22 11:00am–12:00pm	BYOD Workshop for Oracle Analytics
Tim Vlamiis	June 28 4:00pm–5:00pm	Strategies and Layouts for Data Visualization Success
Dan Vlamiis Tim Vlamiis	June 29 4:00pm–5:00pm	Getting from Answers/Dashboards to Data Visualization



Presentation Agenda

- Overview of Oracle Business Analytics products
- Answers and Dashboards SWOT
- Data Visualization SWOT
- Three Strategies for making the move to DV
 - Clean up first
 - Choose a champion
 - Organic growth
- Summary and recommendation



Oracle Analytics Products

- **OBIEE = Oracle Business Intelligence Enterprise Edition**
 - Currently on version 12.2.1.4
 - Data Visualization available as OPTION in OBIEE 12c
 - Many customers still on 11.1.1.7 or 11.1.1.9 (terminal release of 11g)
 - Upgrade for free (if paying maintenance) to Oracle Analytic Server or migrate to OAC
- **BICS = Business Intelligence Cloud Services**
 - Included classic “Answers and Dashboards” interface
 - Included new “Data Visualization” interface
- **DVCS = Data Visualization Cloud Services**
 - Included only new “Data Visualization” interface
- **DVD = OAD = Data Visualization Desktop = Oracle Analytics Desktop**
 - Runs as standalone application on Windows PCs
- **OA (Oracle Analytics) runs on Cloud or on your own Server**
 - OAC released quarterly or monthly – two editions:
 - Professional Edition (DV interface only, no RPD)
 - Enterprise Edition (similar to OBIEE, includes DV and Day by Day for mobile)
 - OAS (comes out roughly once a year)



Answers and Dashboards SWOT

Strengths

- Highly designed dashboards
- Query definition power
- Prompts and selection steps
- Good control of table formats
- Decent selection of graphs
- Hierarchical columns

Opportunities

- Ability to set standards

Weaknesses

- Dynamic layout WYSIWYG
- High training costs
- Endlessly deep menus
- Poor dashboard layout tool

Threats

- Visual analytics and data discovery tools
- Poorly designed repositories



Data Visualization SWOT

Strengths

- Extremely interactive
- Framework for brushing
- Mashup
- No RPD required
- Data source connections
- Leverages Oracle security

Opportunities

- Machine learning is promising
- Data Flows transform data

Weaknesses

- Highly designed dashboards
- Weak documentation

Threats

- Starting from behind
- Users love Tableau and PowerBI



Advantages of DV Interface

- New in OBIEE 12c – Area of Oracle investment
- More modern interface
- Simpler interface for ad-hoc use
- More interactive – e.g. brushing
- Competes with Tableau and other more modern BI tools
- Ability to use external data – NO RPD mapping required!
- Mash up with external data (including spreadsheets and cloud)
- Integrated machine learning, AI, and NLP (natural language)
- Extend with custom visualizations
- Emphasis on self-service



Reasons for Classic Answers / Dashboards

- Investment in current dashboards and reports
- Answers allows more control – ~~e.g. font control~~
- Highly customized reports – custom queries
- Prompts have additional capabilities (~~not in DV yet~~)
- More control over layout, especially of tables
- Answers offers hierarchical columns (~~not in DV yet~~)
- Selection steps and custom groups – post-aggregation



Objections to Using Data Visualization

- Stuff already built in Classic
- Prompts better?
- Prompts on left side
- Finer control over user experience
- Hierarchical columns
- Conditional formatting
- Good point
- Filter views introduced Aug 2020
- Do you care where they are?
- Additional capabilities in OAC 6.1
- Added to tables / pivot tables in OAC 6.0
- Coming in OAC 6.1 (plus more powerful)



Three approaches to moving to DV

- Clean up first
- Choose a champion
- Organic growth strategy



Clean Up Option

- First fix problems in current OBIEE implementation
- Get the data model right
- Identify seldom used dashboards and analyses
- Set standards for analyses and dashboards
 - Consistent formatting (colors, styles, graphs)
 - Consistent placement of prompts, navigation, legends, and meta data
 - Develop consistent filters, selection steps, and conditions
 - Determine catalog organization and naming conventions and strategy
- Set access and security roles and rules
- Get the data model right



Choose a Champion

- Identify a user group who wants to be first with Data Visualization
- Conduct workshops with champions to seed early adoption
- Leverage experts to offer feedback and concept development
- Develop a strong demo of DV capabilities with champion
- Showcase champions' work to rest of organization



Organic Growth Strategy

- “Brick the dirt path” strategy
- Give a large group access to DV and watch who adopts it
- Let users determine best value use cases through observation
- Fast start is better than a slow start
- Reinforce good value use cases through visibility and recognition



Migrating Dashboards to DV

- Differences between dashboards and DV canvases
- Turning prompts into DV filters / DV filter views
- Leverage the narration capabilities of DV
- Showing data stories and logical sequences of visualizations



Dealing with Mashups

- Importance of single version the truth
- Need for flexibility and “on-the-fly” modeling
- Recommendations for data connections
- Recommendations for data uploads (CSV, Excel)
- Recommendations for data flows (use for one-offs)
- Recommendations for data work within projects
- Consider multi-table data sets



Sample Dashboard in Dashboard/Answers

Manufacturing Summary | New Availability Analysis | **New Injection Reject Analysis** | Delivery Analysis



Reject Analysis

CALENDAR YEAR

2018

CALENDAR MONTH

--Select Value--

DATE

EPLANT

(All Column Val)

MFG CELL

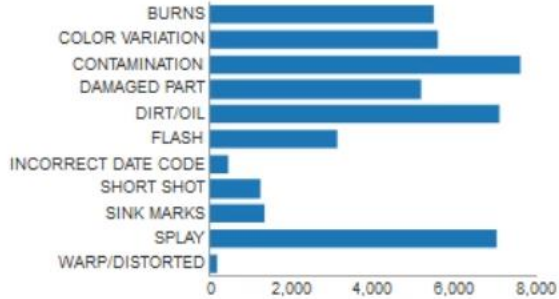
(All Column Val)

ITEM

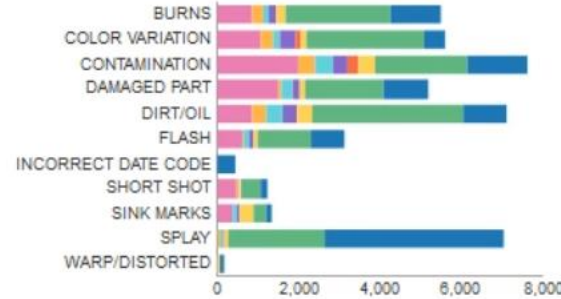
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RETURN TO MAIN MENU

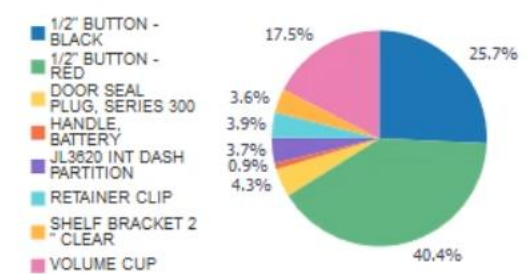
Reject Qty by Reject Description



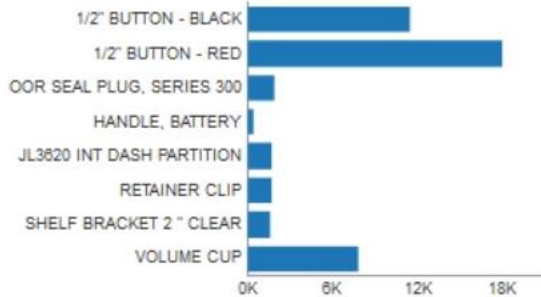
Reject Qty by Reject Description and Product



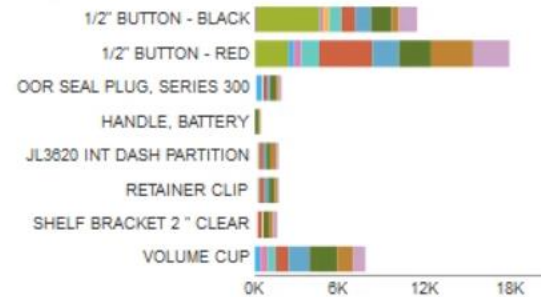
Reject QTY by Product



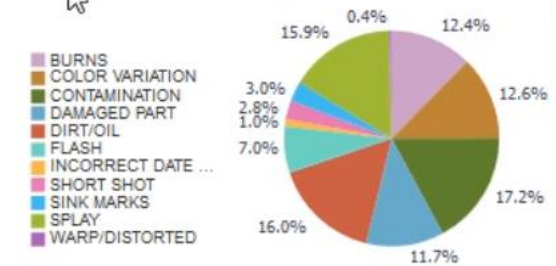
Reject Qty by Product



Reject Qty by Product and Reject Description



Reject QTY by Reject Description



	BURNS	COLOR VARIA...	CONTAMINATI...	DAMAGED PART	DIRT/OIL	FLASH	INCORRECT D...	SHORT SHOT	SINK MARKS	SPLAY	WARP/DIST
1/2" BUTTON - BLACI	1,237	521	1,448	1,103	1,038	811	482	154	131	4,411	
1/2" BUTTON - RED	2,576	2,870	2,287	1,916	3,738	1,317		500	330	2,381	
DOOR SEAL PLUG, :	246	131	420	166	373	85			321	76	
HANDI F. BATTERY		139	277								

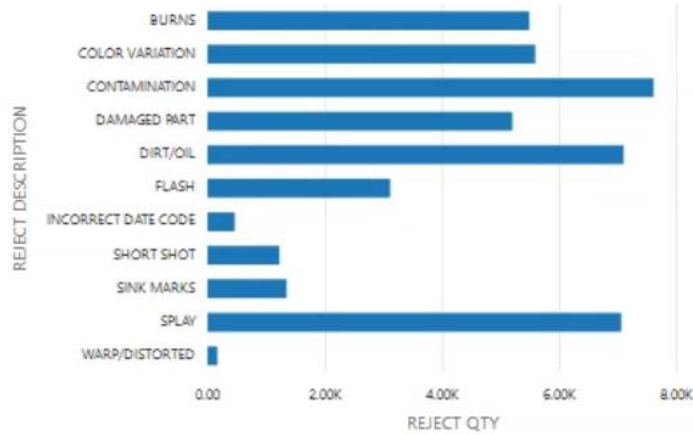


Sample Dashboard in Data Visualization

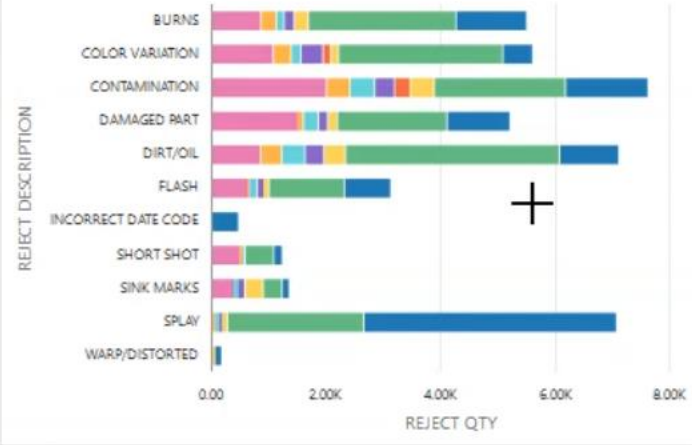
Reject Analysis VA
Project

YEAR
2018

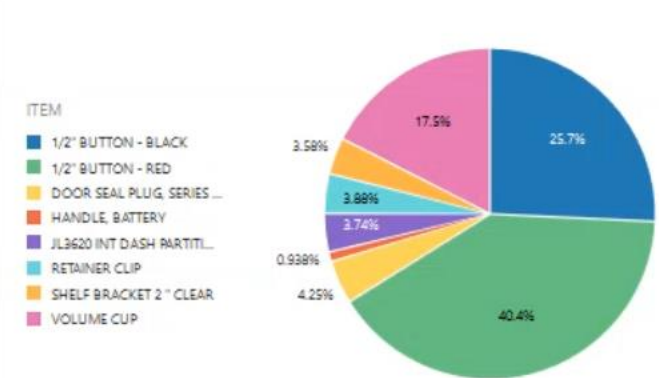
REJECT QTY by REJECT DESCRIPTION



REJECT QTY by REJECT DESCRIPTION, ITEM



REJECT QTY by ITEM



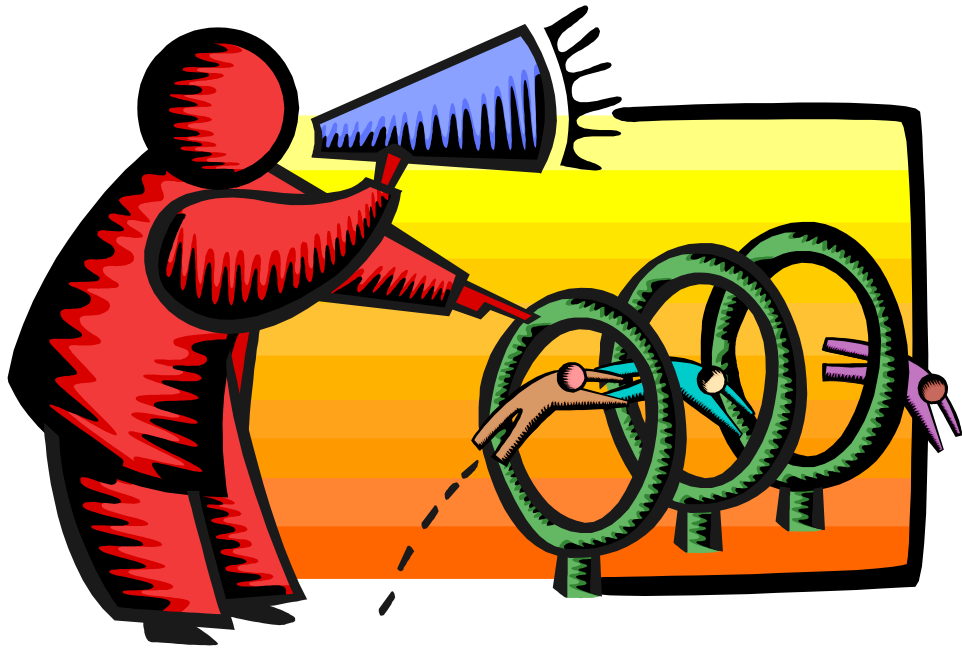
REJECT QTY by REJECT QTY, ITEM, REJECT DESCRIPTION

	BURNS	COLOR VARIATION	CONTAMINATION	DAMAGED PART	DIRT/OIL	FLASH	INCORRECT DATE CODE	SHORT SHOT	SINK MARKS	SPLAY	WARP/DISTORTED
	REJECT QTY	REJECT QTY	REJECT QTY	REJECT QTY	REJECT QTY	REJECT QTY	REJECT QTY	REJECT QTY	REJECT QTY	REJECT QTY	REJECT QTY
1/2" BUTTON - BLACK	1,237	521	1,448	1,103	1,038	811	462	154	131	4,411	99
1/2" BUTTON - RED	2,576	2,870	2,287	1,916	3,738	1,317		500	330	2,381	
DOOR SEAL PLUG, SERIES 300	246	131	420	166	373	85			321	76	68
HANDLE, BATTERY		139	277								
JL3620 INT DASH PARTITION	176	381	342	164	328	123			95	51	
RETAINER CLIP	138	174	437	262	409	114		27	89	69	
SHELF BRACKET 2" CLEAR	266	313	409	82	369	35		49		67	
VOLUME CUP	850	1,063	1,990	1,506	843	632		495	382		

REJECT QTY 27 4K



Demo and examples



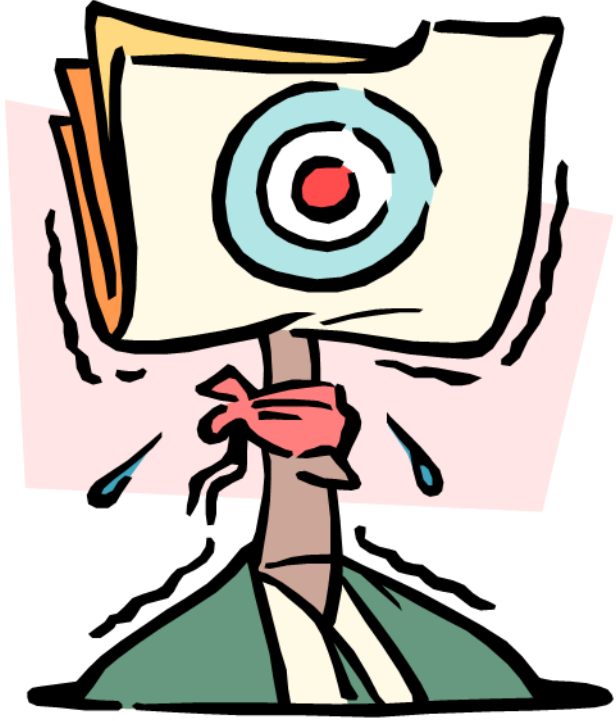


Summary

- Don't rush to leave classic interface
- Data visualization is the future
- DV needs a bit more maturing to replace classic interface
- Exact replication of existing dashboards is hard
- Can integrate DV content into classic dashboard
- Start with and capitalize on DV's strengths



Questions?





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