

Triniti eWorksheets - Operational Reporting and Analytics Tool

eWorksheets Overview: Single Application for Varied Needs and Sizes

Not all aspects of your business processes can be contained within the realm of your ERP—the result is wide-ranging spreadsheets that get deeply embedded into decision-making. Convert your spreadsheet-based processes into a tightly integrated system.

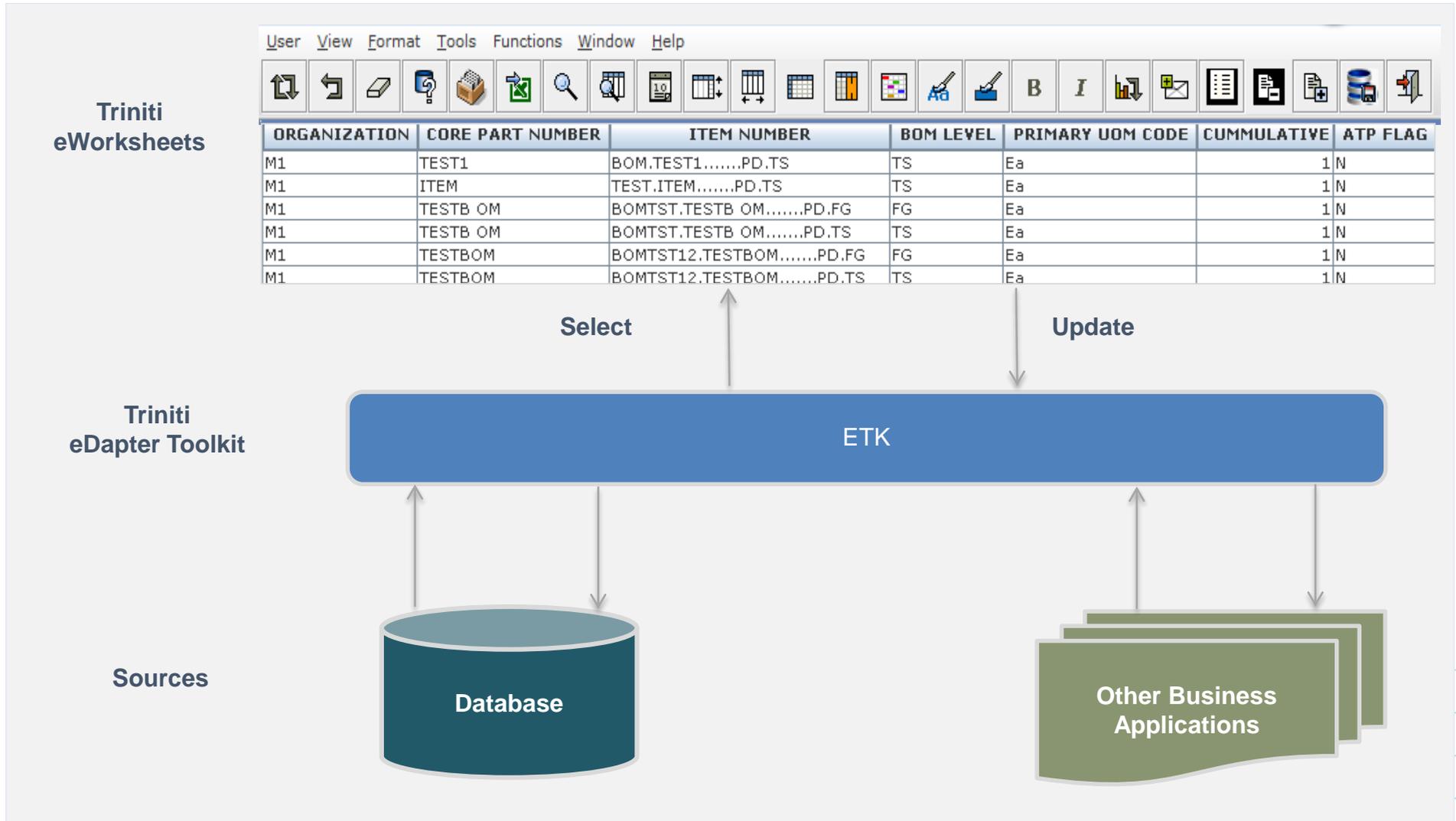
Triniti has added advanced analytics features to its Excel look-alike reporting platform, eWorksheets. It allows users to explore and visualize data using a variety of charts, maps, and gauges. eWorksheets is lightweight and highly responsive.



eWorksheets analytics is fast, lightweight, intuitive, and loaded with options that make it easy for users of all skill sets to explore and visualize their data, from simple line charts to highly detailed combo charts.

eWorksheets are so simple that anyone with knowledge of SQL can start configuring powerful reports and applications in hours.

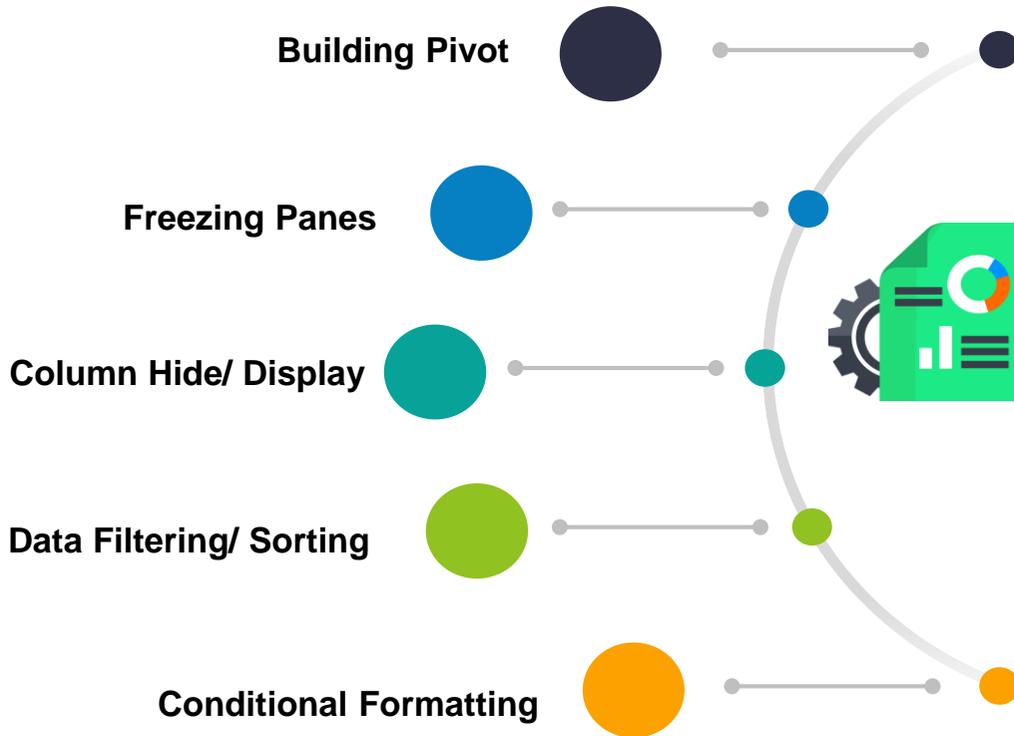
eWorksheets Application Architecture



End User Capabilities

- ✓ **Powerful Self-servicing Features**
Users can quickly and easily build dashboards using Viz Builder or SQL query builder, format reports, hide/display columns, conditional color formatting of cells, and save them as their own or share them with other users.
- ✓ **Integrates with Modern Databases**
Connect to any SQL-based data source through Java Database Connectivity (JDBC), including modern databases like MongoDB. Column-based queries for large volume aggregations.
- ✓ **Modern Architecture/ No Need for Ingestion Layer**
eWorksheets Analytics is lightweight and highly scalable, leveraging the analytical SQL engines without requiring yet another ingestion layer.
- ✓ **Rich Visualizations and Dashboards**
Data and charts can be viewed on a single page simultaneously—interactive visualization charts with Zoom and Scroll. It ships with a wide array of beautiful visualizations like TreeMap, Heat Map, Tag Cloud, Time Axis, and LED/ Status/ Rating gauges. Drill down to other charts or reports from a part of the Chart.
- ✓ **Technology**
Responsive design as Frontend to show the charts in Desktops and Mobile devices. Java Technology with Java Database Connectivity (JDBC) is used as Middletier to run the column-based SQL queries to fetch data from data sources.

Self-servicing Features and Benefits



- Excel look and feel
- Conditional formatting similar to Excel
- Slice & dicing data
- Import & export data
- Schedule based reporting
- Analytical reporting
- Drilldowns support
- Additional data fields
- Pivot & Transpose views

- Zero latency and full transparency
- Fast and Accurate data capture
- Ideal for exception management & mass data maintenance
- Real-time data retrieval from the ERP
- Real-time update to ERP using ERP supported native API
- Integrated online analytical processing (OLAP) reporting
- Configurable & custom validations
- Comprehensive audit trail with reduced costs
- Workflow enabled
- Drill down to child reports/ worksheets/ applications
- Automation in sending report data to subscriptions
- Link documents to report data
- Enforce business validation rules for structured and clean data into system
- Highly secured – user based security & ERP compliance

eWorksheets Analytics

- An intuitive interface for visualizing data and crafting interactive dashboards
- Code-free visualization builder to extract and present data
- A state-of-the-art SQL IDE including a rich metadata browser for complex queries that require multiple SQL's
- Ensures that you do not need a different tool for those exceptions which require more than one query
- A lightweight semantic layer that empowers data analysts to define custom dimensions and metrics quickly
- Out-of-the-box support for most SQL-speaking databases
- Seamless, in-memory asynchronous caching and queries
- Granular access rules provide an extensible security model
- Integration with popular authentication protocols(Open ID, Active Directory, LDAP, OAuth)
- API to embed the dashboard in any web page as a widget
- Legends, Labels, Markers, Colors, and Reference Lines based on data and metadata
- Conditional coloring in Chart

Task List Report

The following report shows list of tasks retrieved from a project management database. Data is conditionally formatted (as different colors)

TDM Framework 23.Q3											
#	Project *	Task Type *	Task	Task Title *	Sub Task	Status	Role	Resource	Start Date (MMM d, yyyy)	Finish Date (MMM d, yyyy)	
1	TDM Framework 23.Q3	R n D Activity	IS120351	Make Framework modules	Do Prototype	STARTED		rajini.chakravaram	Jan 8, 2024	Jan 10, 2024	
2	TDM Framework 23.Q3	New Feature Development	IS120605	Update servlet class package	Develop & Unit Test	STARTED		saikumar.yara	Dec 11, 2023	Dec 12, 2023	
3	TDM Framework 23.Q3	Issue Resolution	IS120278	When we add a same Job for	Functional Test & Crea	STARTED		neeraj.pattam	Sep 21, 2023	Sep 22, 2023	
4	TDM Framework 23.Q3	Issue Resolution	IS112154	Unable to free busy connections in	Provide Testcase	STARTED		yyedia	Sep 22, 2023	Sep 22, 2023	
5	TDM Framework 23.Q3	Support	IS121611	Scheduler testing for OCSM instance	Provide Support	STARTED		rohan.nayak	Sep 21, 2023	Sep 25, 2023	
6	TDM Framework 23.Q3	Issue Resolution	IS121727	Postgresql backward compatibility	Develop and Unit Test	STARTED		kumaranarasimharac	Sep 26, 2023	Sep 28, 2023	
7	TDM Framework 23.Q3	Enhancement Development	IS121742	Unable to generate ETK models	Code Commit & Attac	STARTED		saikumar.yara	Oct 11, 2023	Oct 11, 2023	
8	TDM Framework 23.Q3	Support	IS121844	Test Ticket2	Assign Priority & Resou	STARTED		yyedia	Oct 6, 2023	Oct 6, 2023	
9	TDM Framework 23.Q3	Support	IS122217	testing tdm project	Assign Priority & Resou	STARTED		yyedia	Jan 5, 2024	Jan 5, 2024	
10	TDM Framework 23.Q3	Support	IS122219	testing	Assign Priority & Resou	STARTED		yyedia	Jan 5, 2024	Jan 5, 2024	
11	TDM Framework 23.Q3	Issue Resolution	IS103992	Handle un mapped columns in Json	Develop and Unit Test	STARTED		vijayaraju.gubbala	Oct 4, 2023	Oct 9, 2023	
12	TDM Framework 23.Q3	Enhancement Development	IS096508	Purge exception tables in Framework	Provide BRD	STARTED		yyedia	Sep 21, 2023	Sep 22, 2023	
13	TDM Framework 23.Q3	Issue Resolution	IS111077	Empty file is not getting generated	Review Code & Backw	STARTED		yyedia	Sep 21, 2023	Sep 21, 2023	
14	TDM Framework 23.Q3	New Feature Development	IS120525	Make framework code compatible	Integration Test	STARTED		rajini.chakravaram	Jan 3, 2024	Jan 4, 2024	

Pivot Report

The following report shows billable and non-billable hours spent by consultants across projects in a year

Menu												
Branch All Department All Employee All Project All Type All												
#	1	2	3	4	5	6	7	8	9	10	11	
	SUM of No. of days worked			Month								
	Employee	Project	Type	Jan, 2023	Feb, 2023	Mar, 2023	Apr, 2023	May, 2023	Jun, 2023	Jul, 2023	Aug, 2023	
1	Abhilash Adda	PIOPS support and Equipment Maintenance	Billable Time	6	20	23	20	20	19	19	22	
2		Trinity Arena Integration	Non Billable Time	10								
3	Abhilash Adda Total			16	20	23	20	20	19	19	22	
4	Ajay Gaddam	Fixed Assets Tagging Project	Billable Time	21	1.5							
5	Ajay Gaddam Total			21	1.5							
6	Ajith Kumar	AngioDynamics Functional Helpdesk	Billable Time							4.5	9.25	
7	Ajith Kumar Total									4.5	9.25	
8	Ajith Kumar Bilakanti	OPS-IT (HTP)	Non Billable Time	20	12						17	
9		Synergy Cloud AMS Project	Billable Time		7	21	18	19	14	21	4	
10	Ajith Kumar Bilakanti Total			20	19	21	18	19	14	21	21	
11	Akhilesh Singh Narvar	OPS-IT (HTP)	Non Billable Time	20.5	19.5	22	14	19.5	22	20	21.5	
12	Akhilesh Singh Narvar Total			20.5	19.5	22	14	19.5	22	20	21.5	
13	Akil Babu Sake	OPS-IT (HTP)	Non Billable Time							11	21	
14		Parasakti - Finance and SCM Implementation	Billable Time	11	20	21	19	23	20			
15			Non Billable Time							9		

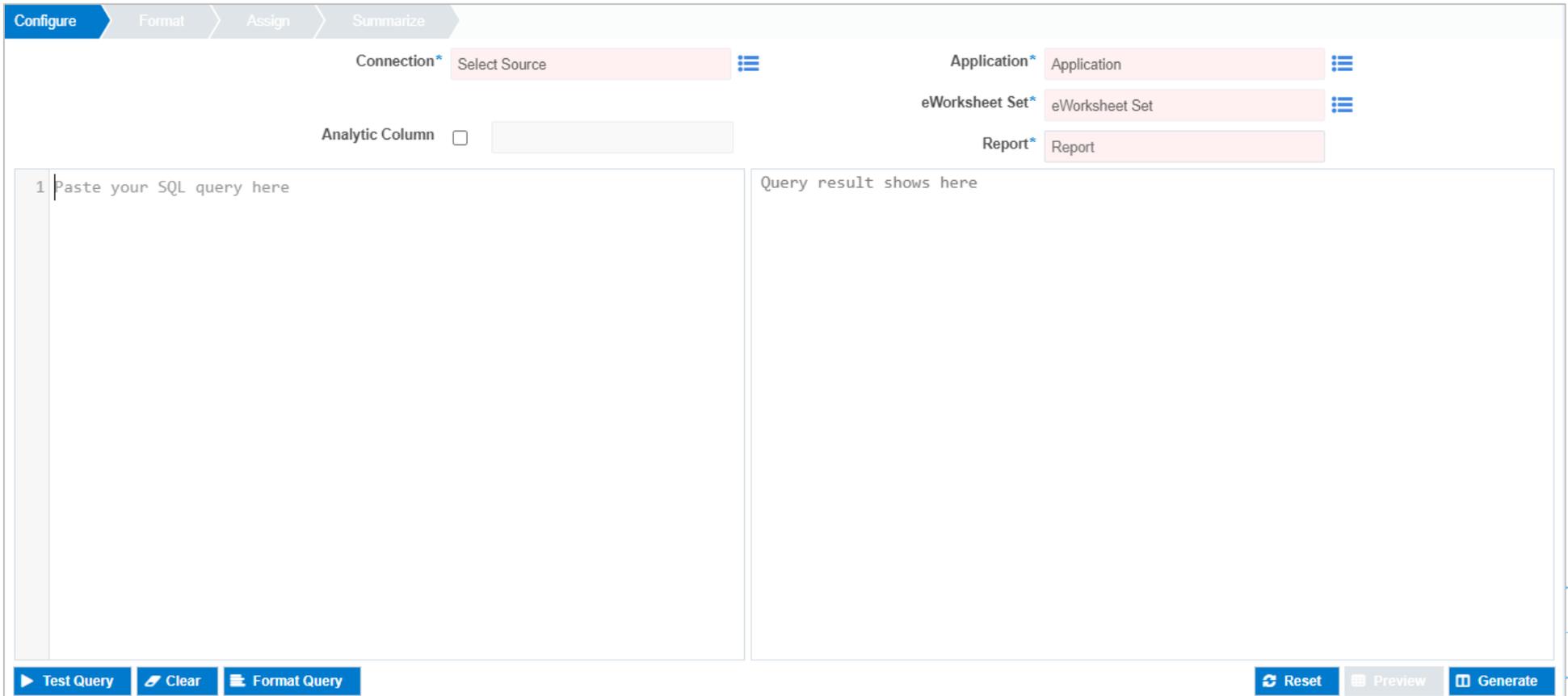
Transpose Report

eWorksheets facilitates transposing rows into columns. The below report shows test case scenarios

#	Process	success?	Valid Scenario	Generate Testcase	Partial Receiving	Is Auto Scheduled?	Is auto scheduled?	Approve
1	TEST User Password Change			No				
2	Testing3			No				
3	demoscenario1			No				
4	SampleTest			No				
5	Procure to Pay			No				No
6	Procure to Pay	Yes	Yes	No	No			Yes
7	Procure to Pay	Yes	Yes	No	Yes			Yes
8	Procure to Pay Demo			No				No
9	Procure to Pay Demo	Yes	Yes	No	No			Yes
10	Procure to Pay Demo			No	Yes			Yes
11	CRPTest			No				
12	LLNW_O2C	Yes	Yes	No				
13	SampleModel	Yes	Yes	No				
14	LLNW Demo Model	Yes	Yes	No				
15	BPM Model with subprocess node			No				
16	BPM Model with subprocess node			No				
17	BPM Model with one Oracle Node	Yes	Yes	No				
18	BPMDecisionModel	Yes	Yes	No				

Report Creation Wizard

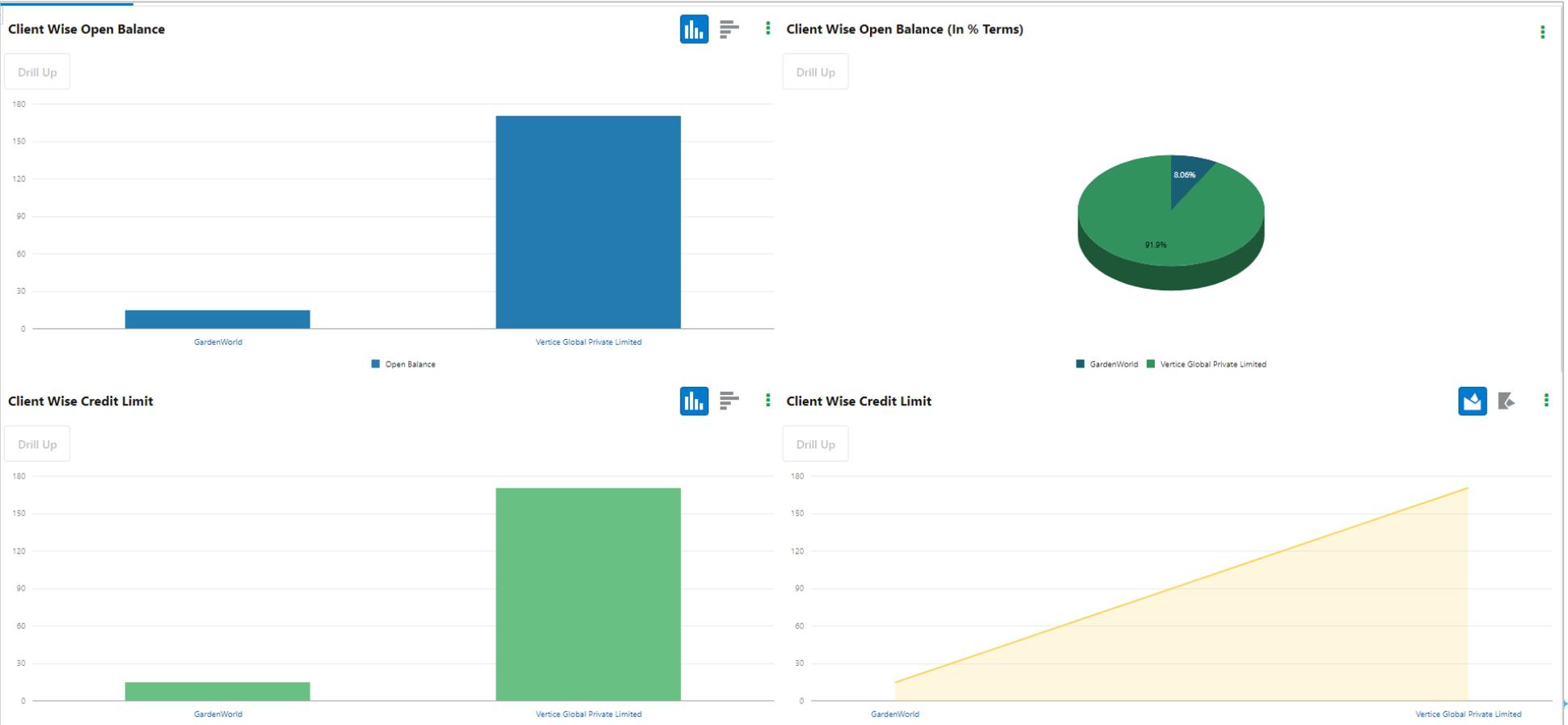
Report creation wizard is an application which provides a user interface for creating a report with a select query



The interface is divided into several sections:

- Navigation:** A top bar with tabs for 'Configure' (active), 'Format', 'Assign', and 'Summarize'.
- Configuration:**
 - Connection*:** A dropdown menu currently showing 'Select Source'.
 - Application*:** A dropdown menu currently showing 'Application'.
 - eWorksheet Set*:** A dropdown menu currently showing 'eWorksheet Set'.
 - Report*:** A dropdown menu currently showing 'Report'.
 - Analytic Column:** A checkbox followed by an empty text input field.
- Query Editor:** A large text area on the left with the placeholder text '1 Paste your SQL query here'.
- Results:** A large text area on the right with the placeholder text 'Query result shows here'.
- Actions:** A bottom bar containing buttons for 'Test Query', 'Clear', 'Format Query', 'Reset', 'Preview', and 'Generate'.

Dashboard



eWorksheets and Other Reporting Tools

Technical Comparison

Feature	eWorksheets	Qlik sense	Tableau	PowerBI	Remarks
Data Management	Yes	Yes	Yes	Yes	Source connectivity, data blending, and designing data pipeline workflows
Integration with Other Tools	Yes	Yes	Yes	Yes	
Dashboards and Data Visualization	Yes	Yes	Yes	Yes	View your business's critical metrics through interactive charts and graphs
Role Based Access & Reporting	Yes	Yes	Yes	Yes	Configure permissions and role-based access for data security
Real Time Data Updates/ Editability	Yes	No	No	No	Real-time update to the ERP using ERP supported native API
Big Data Analytics	Yes	No	No	No	Leverage analytical SQL engines
Advanced Analytics	No	Yes	Yes	Yes	Supports predictive modeling, regression analysis and other mathematical models for advanced analysis
Workflow Enabled	Yes	Yes	Yes	Yes	
Data Export & Publish	Yes	Yes	Yes	Yes	Export data to Excel, CSV & email to end-users
Scheduling	Yes	Yes	Yes	Yes	Schedule reports to publish in sequential manner
Ease in Configuration	Yes	No	No	No	In eWorksheets - users can quickly and easily build dashboards using Viz Builder or SQL query builder
Pricing	\$12.99 per user/month	\$20.00 per user/ month	~\$42.00 per user/ month	\$20 per user/month	eWorksheets – cost-effective

Pricing based on surveys, and customers are actually paying



- ✓ Sony uses Trinity's eWorksheets to eliminate production maintenance costs
- ✓ Peregrine Semiconductor streamlines planning and manufacturing processes using Trinity's eWorksheets
- ✓ Novanta, Inc. implemented Trinity's eWorksheets as a part of its global ERP project across multiple business units

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