

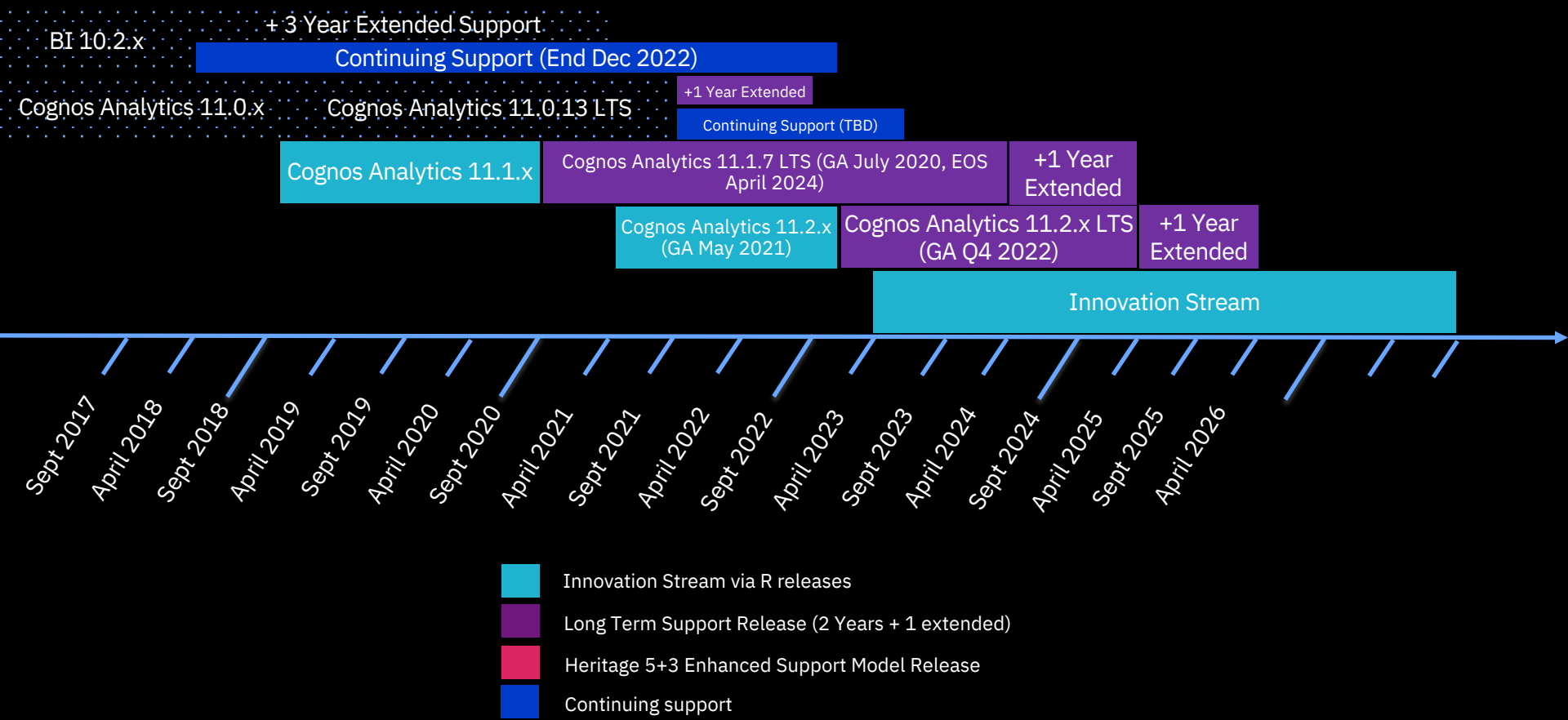
What's New in IBM Cognos Analytics with Watson 11.2.2

Cognos Analytics Product Management

April 2022



Release Lifecycle (in market view)



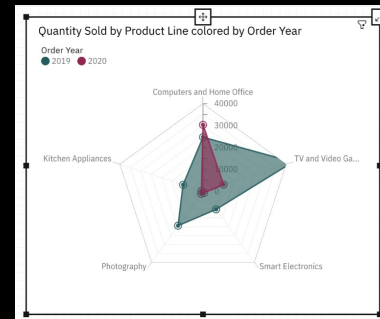
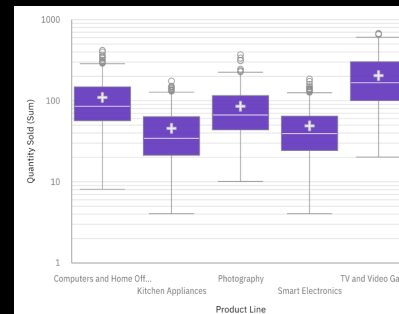
11.2.0 Re-cap

- UX Revamp
- AI Assistant and Forecasting support for OLAP cubes
- New dashboard visualizations: **Boxplot** and **Radar**
- More homepage customization options
- Improved Watson Studio integration
- Introducing Watson Moments
- S3 for TLS certificates
- Faster loading of dashboards



Watson insights

Watson can detect semantic and data driven relationships based on the data that you are investigating. You can use this extra data to help gain perspective and insight into the data that you're exploring.



IBM Cognos Analytics

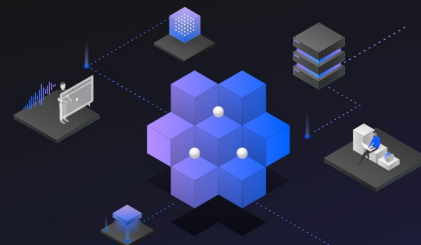
Search Cognos Analytics

Hello. Welcome to Cognos Analytics.

Cognos Analytics empowers users with AI-driven self-service analytics. See how automated data preparation, data discovery and visualizations can drive more confident decisions.

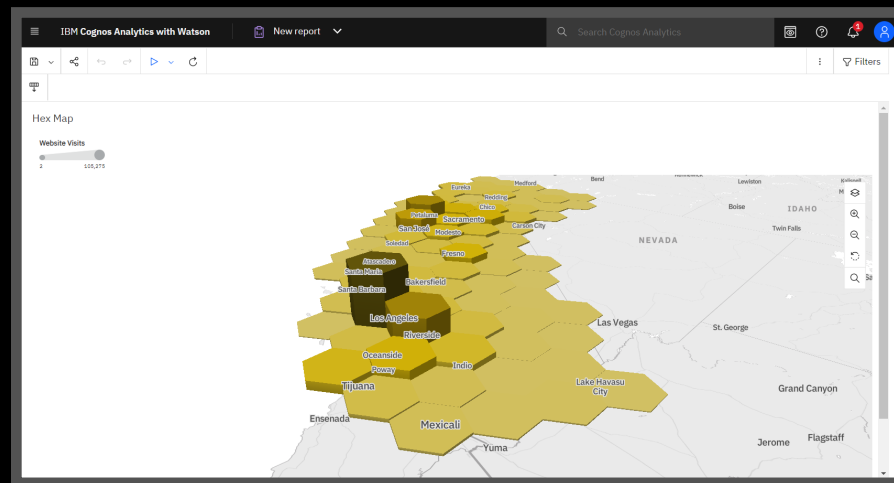
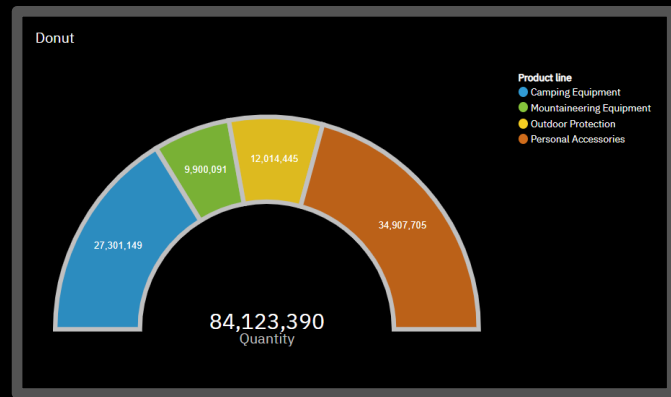
Watch video

Take a product tour



11.2.1 Re-cap

- IBM Cognos Analytics with Watson
- On-demand cloud reduced to 2 lower-cost tiers
- New Mobile only license for \$5
- 3D maps and hex bin grouping
- Dremio and IBM Cloud SQL Query as supported data sources
- Tabbed report performance improvements
- New donut visualization



Cognos Analytics with Watson 11.2.2

New Features

Dashboard Enhancements

Sami El Cheikh

Product Manager

IBM Cognos Analytics Dashboards, Cognos Analytics for Microsoft Office

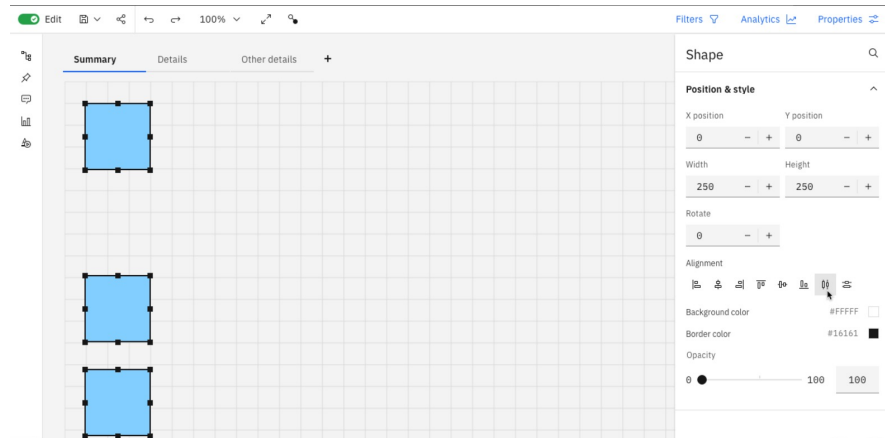
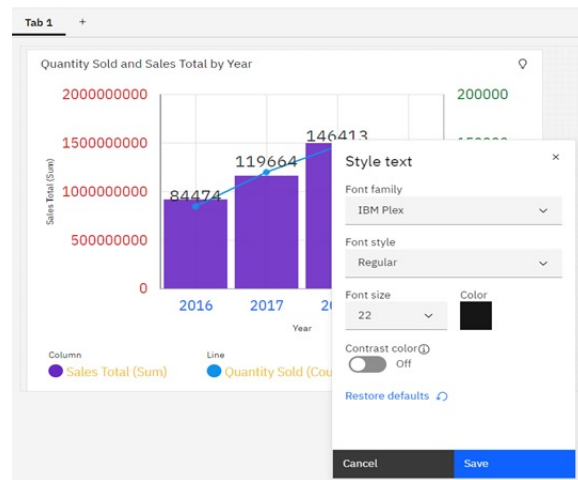
Dashboarding Enhancements

General Usability:

- Widget property for rounded edges
- Opacity property only affects background not text
- Text styling and font sizes for axis values
- Change font settings for multiple text items
- Text widget support for inner margins, vertical alignment, indentations, line height

Selection and Alignment:

- Multi-select and align contents (vertical, horizontal)
- Widget property to remove selector border



Dashboarding Enhancements

Colors:

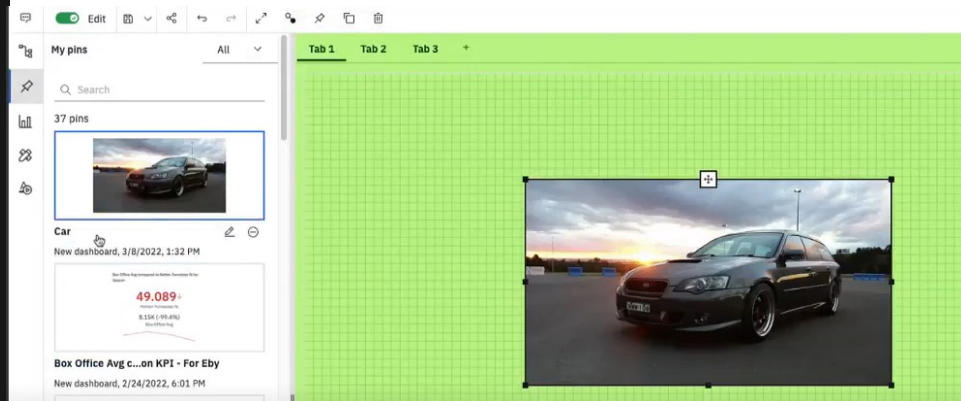
Widget color picked up by color wheel

Background color adjustable for each tab

Pin:

Thumbnail for pinned image widgets (url)

Ability to rename pins



AI Enhancements

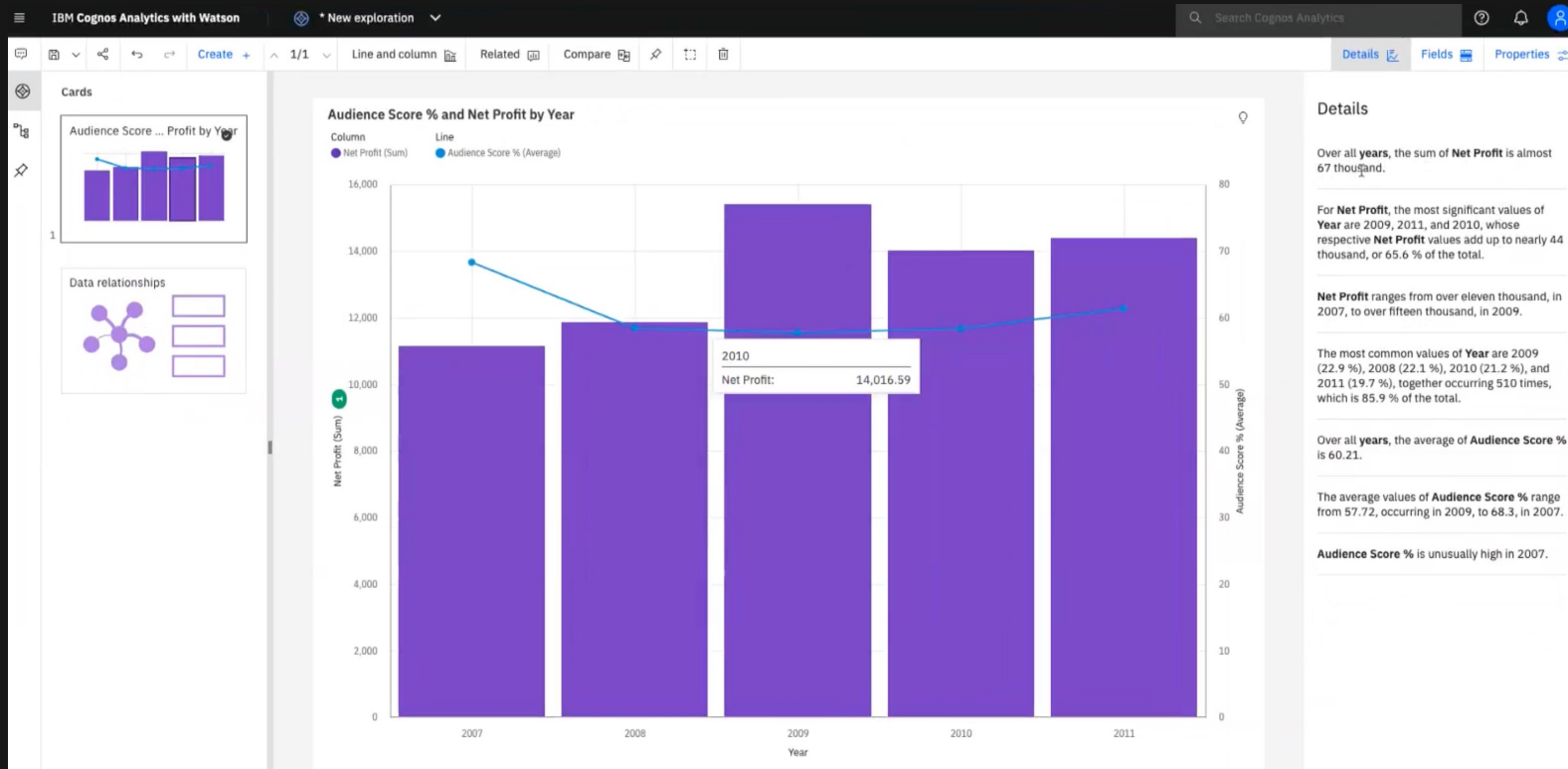
Rodrigo de Andrade

Product Manager

IBM Cognos Analytics AI, Visualization, Mapping

AI Improvements - NLG REPHRASER

The Natural Language insights provided in visualizations that are created in exploration feature were enhanced, delivering text summaries from the data analysis even more friendly and easily understandable by business users.



AI Improvements - NLG REPHRASER

CA - 11.2.1

Details
The sum of Net Profit for all values of Year is 66,816.
For Net Profit , 2009, 2011, and 2010 are the most important categories of Year with a total value of 43,809 (65.6 % of the total).
The summed values of Net Profit range from a minimum of 11,135 (when Year is 2007) to a maximum of 15,400 (when Year is 2009).
The average of Audience Score % for all values of Year is 60.21.
The average values of Audience Score % range from a minimum of 57.72 (when Year is 2009) to a maximum of 68.3 (when Year is 2007).
The value of Audience Score % is unusually high when Year is 2007.
2009 (22.9 %), 2008 (22.1 %), 2010 (21.2 %), and 2011 (19.7 %) are the most frequently occurring categories of Year with a combined count of 510 items (85.9 % of the total).

CA - 11.2.2

Details
Over all years , the sum of Net Profit is almost 67 thousand.
For Net Profit , the most significant values of Year are 2009, 2011, and 2010, whose respective Net Profit values add up to nearly 44 thousand, or 65.6 % of the total.
Net Profit ranges from over eleven thousand, in 2007, to over fifteen thousand, in 2009.
The most common values of Year are 2009 (22.9 %), 2008 (22.1 %), 2010 (21.2 %), and 2011 (19.7 %), together occurring 510 times, which is 85.9 % of the total.
Over all years , the average of Audience Score % is 60.21.
The average values of Audience Score % range from 57.72, occurring in 2009, to 68.3, in 2007.
Audience Score % is unusually high in 2007.

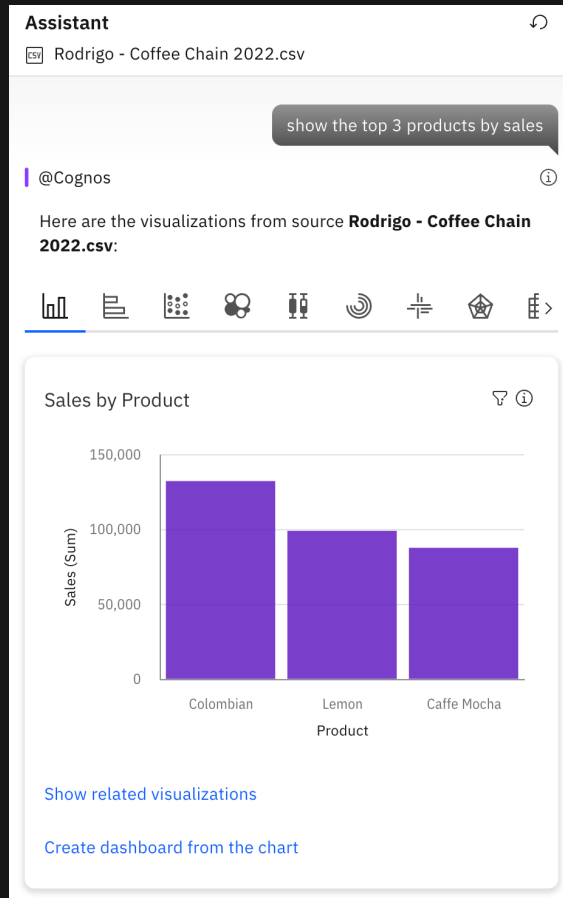
AI Improvements - Assistant

Expression Filters

CA assistant now understands Operators and Modifiers to apply filters to specific columns.

Examples:

- in
- for
- if
- where
- with
- including
- excluding
- greater than
- less than
- top
- bottom



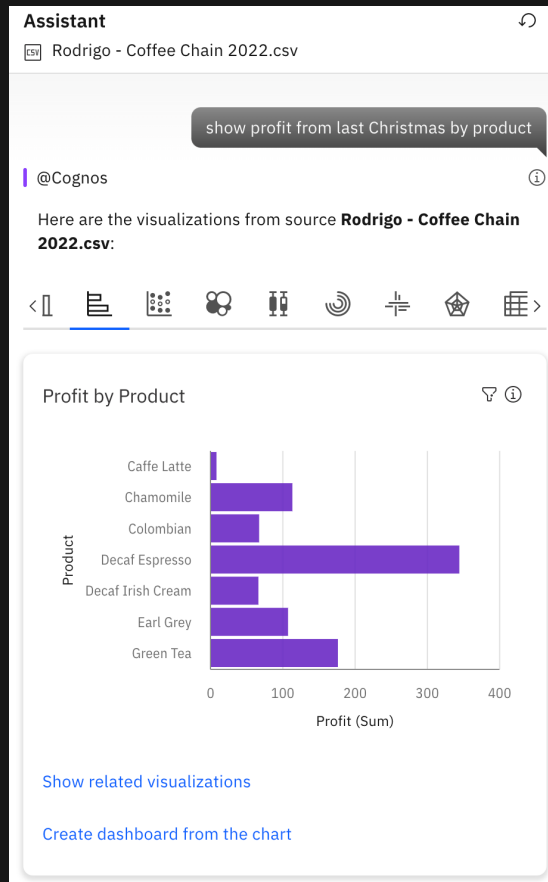
AI Improvements - Assistant

Temporal Expressions

CA assistant now understands temporal expressions and the users can ask questions including time entities or even holidays

Examples:

- This Week
- After August
- Last Summer
- 2nd Quarter
- Christmas
- New Year's day
- Labor day
- Valentine's day



Modeling and Data Access Enhancements

Zach Taylor

Product Manager

IBM Cognos Analytics Modeling, Data Access, Analyst Relations

Data Modeling Enhancements – Sorting the metadata tree

IBM Cognos Analytics with Watson Coffee sales and marketing

Search content

Properties

Data module

Grid Relationships Custom tables

Search

Coffee sales and marketing

- Navigation paths
 - Sales vs Target
 - Spoilage Expense
 - Beverages
 - Food
 - Whole Bean
 - Merchandise
 - Add-Ons
 - Sales Receipts
 - Order ID
 - Row Id
 - Transaction ID
 - Date
 - Time
 - Sales Outlet ID
 - Staff ID
 - Customer ID
 - Instore Y/N
 - Order No
 - Line Item No
 - Product ID
 - Quantity
 - Sales
 - Promotion Y/N
 - Total Order Sales
 - Staff Count by Store
 - Unit Price
 - Pastry Inventory
 - Sales Targets
 - Customer
 - Dates

New

- Calculation...
- Relationship...
- Filter...
- Folder
- Table...
- Show query information...
- Specify column dependencies
- Refresh members
- Hide from users
- Remove
- Refresh properties...
- Sort...
- Rename
- Cut
- Copy
- Manage filters
- Properties

Order ID	Row Id	Transaction ID	Date	Time	Sales Outlet ID	Staff ID	Customer ID	Instore Y/N	Order No
2019-04-01-2953-3	3524	2953	2019-04-01	18:54:39	3	17	3781	N	2953
2019-04-01-2956-3	3527	2956	2019-04-01	22:18:37	3	17	3099	Y	2956
2019-04-01-2959-3	3530	2959	2019-04-01	14:21:14	3	12	3038	N	2959
2019-04-01-2961-3	3532	2961	2019-04-01	15:01:00	3	12	3180	Y	2961
2019-04-01-2962-3	3533	2962	2019-04-01	16:20:51	3	12	3035	Y	2962
2019-04-01-2964-3	3535	2964	2019-04-01	15:27:43	3	12	3500	N	2964
2019-04-01-2968-3	3539	2968	2019-04-01	19:11:18	3	17	3065	N	2968
2019-04-01-2970-3	3541	2970	2019-04-01	21:25:04	3	12	3082	Y	2970
2019-04-01-2971-3	3542	2971	2019-04-01	18:51:44	3	12	3174	N	2971
2019-04-01-2972-3	3543	2972	2019-04-01	16:58:40	3	12	3116	N	2972
2019-04-01-2973-3	3544	2973	2019-04-01	14:49:29	3	17	3189	Y	2973
2019-04-01-2974-3	3545	2974	2019-04-01	20:01:36	3	17	3131	Y	2974
2019-04-01-2975-3	3546	2975	2019-04-01	14:10:04	3	17	3264	Y	2975
2019-04-01-2978-3	3549	2978	2019-04-01	16:17:00	3	12	3174	Y	2978
2019-04-01-2979-3	3550	2979	2019-04-01	15:24:53	3	17	3604	Y	2979
2019-04-01-2980-3	3551	2980	2019-04-01	15:30:00	3	17	3032	N	2980
2019-04-01-2980-3	3552	2980	2019-04-01	15:30:00	3	17	3032	N	2980
2019-04-01-2982-3	3554	2982	2019-04-01	19:44:46	3	12	3127	Y	2982
2019-04-01-2983-3	3555	2983	2019-04-01	22:54:12	3	17	3553	Y	2983
2019-04-01-2986-3	3559	2986	2019-04-01	20:26:58	3	17	3437	N	2986
2019-04-01-2987-3	3560	2987	2019-04-01	20:03:21	3	17	3552	N	2987
2019-04-01-2988-3	3561	2988	2019-04-01	18:03:55	3	12	3194	Y	2988
2019-04-01-2989-3	3562	2989	2019-04-01	17:54:27	3	17	3788	N	2989
2019-04-01-2990-3	3563	2990	2019-04-01	19:30:12	3	12	3533	Y	2990
2019-04-01-2991-3	3564	2991	2019-04-01	15:09:11	3	17	3521	N	2991
2019-04-01-2992-3	3565	2992	2019-04-01	18:48:10	3	17	3512	Y	2992

Data Modeling Enhancements – Updated metadata properties

The screenshot displays the IBM Cognos Analytics with Watson interface. The 'Sources' and 'Data module' panes are visible on the left. The 'Sources' pane shows a list of data sources, with 'Mrk Product Survey Fact' selected. The 'Data module' pane shows a list of data modules, with 'Mrk Product Survey Fact' selected. A context menu is open for the selected data source, showing various actions. The 'Refresh properties...' option is highlighted with a green box. A 'Refresh properties' dialog box is displayed in the center, indicating that refreshing properties updates all dependent properties of calculations with the source calculation. The dialog box shows a green checkmark and the text 'Refresh completed'. An 'OK' button is visible in the bottom right corner of the dialog box. The background shows a table of data with columns for ID, Country, and Name in multiple languages.

IBM Cognos Analytics with Watson

* New data module

Search content

Properties

Sources

Data module

Grid Relationships Custom tables

Search

Search

New data module

- Navigation paths
- Go Org Dim
- Go Region Dim
- Sls Product Dim
- Go Branch Dim

Mrk Activity Status Dim

Mrk Adv Fact

Mrk Bundle...up Lookup

Mrk Campaign Lookup

Mrk Prod Su...y Targ Fact

Mrk Product Survey Dim

Mrk Product Survey Fact

Mrk Promotion Dim

Mrk Promotion Fact

Mrk Promotion Plan Fact

Mrk Rtl Survey Dim

Mrk Rtl Survey Fact

Mrk Rtl Survey Targ Fact

Sls Order Method Dim

Sls Product...and Lookup

Sls Product...lor Lookup

Sls Product Dim

Sls Product Line Lookup

Sls Product Lookup

Sls Product Size Lookup

Sls Product Type Lookup

Sls Rtl Dim

Sls Sales Fact

Sls Sales Order Dim

Sls Sales Targ Fact

xgorevbw

View Account Dim

View Balanced Org Dim

View Org Dim

View Product Name

View Statement Fact

View Submission Dim

New

- Calculation...
- Relationship...
- Filter...
- Folder
- Table...
- Show query information...
- Specify column dependencies
- Refresh members
- Hide from users
- Remove
- Refresh properties...
- Sort...
- Rename
- Cut
- Copy
- Manage filters
- Properties

Diagram settings

- Cardinality
- Focus mode

Degrees of separation: 1

Refresh properties

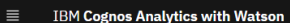
Refreshing properties updates all dependent properties of calculations with the source calculation.

Refresh completed


OK

1003	United States	الولايات المتحدة	Spojené státy americké	USA
1004	Canada	كندا	Kanada	Canada
1020	Mexico	المكسيك	Mexiko	Mexico
1021				Brasília
4011				Japan
4012				Singapore
4013				Korea
4014				Kina
4016				Australia
5007				Holland
5010	Sweden	السويد	Švédsko	Sverige
5018	Denmark	الدانمارك	Dánsko	Danmark
5022	Finland	فنلندا	Finsko	Finland

Data Modeling Enhancements – Relative Date Analysis with a Dynamic `_as_of_date` Parameter




Search Cognos Analytics



Hello. Welcome to Cognos Analytics with Watson.

Cognos Analytics with Watson empowers users with AI-driven self-service analytics. See how automated data preparation, data discovery and visualizations can drive more confident decisions.

[Watch video](#)




My parameters

Time Perspective:


- ☒ use yesterday
- ☐ use last Sunday
- ☐ use `_as_of_date`

Quick launch




Upload data

Upload or drag and drop spreadsheets, csv files, and other data sources.



Prepare data

Use data modules to clean and connect data from multiple resources.



Exploration

Quickly find unbiased answers by identifying trends in your data with data exploration.

[Get started](#)[Recent](#)

Get up and running in IBM Cognos Analytics

[Reset](#)[Apply](#)

Data Modeling Enhancements – Alias and Shortcut (Preview)

The screenshot displays the IBM Cognos Analytics with Watson interface. The top navigation bar includes the product name, a search bar with the text 'gregorian', and user profile icons. The main workspace is divided into a left sidebar for 'Sources', a central area for 'Data module' with tabs for 'Grid', 'Relationships', and 'Custom tables', and a right sidebar for 'Properties' and 'Diagram settings'.

A 'Create new table' dialog box is open in the center, titled 'Create new table'. It prompts the user to 'View selected tables, then choose the new type of table to create.' The dialog is divided into two main sections: 'Selected tables' and a list of table creation options.

Selected tables: This section contains a search bar and a list of tables. The table 'Go Org Dim' is selected.

Table creation options: The following options are listed, each with a radio button and a description:

- View of tables:** To create a view of a table, select one or more tables. Do not mix package and non-package tables.
- Shortcut to a table:** Creates a shortcut to the selected table. (This option is highlighted with a green border in the image.)
- Alias of a table:** Creates an alias of the selected non-package table. (This option is also highlighted with a green border in the image.)
- Copy of a table:** To create a copy of a table, select one non-package table.
- Joined view:** A join table must be created from one or two non-package tables.
- Union of tables:** To create a union table, select two or more non-package tables that have the same number of columns with compatible data types.
- Intersect of tables:** To create an intersect table, select two non-package tables that have the same number of columns with compatible data types.
- Except of tables:** To create an except table, select two non-package tables that have the same number of columns with compatible data types.

The dialog has a 'Cancel' button at the bottom left and a 'Next' button at the bottom right.

Diagram settings: The right sidebar shows settings for 'Cardinality' (checked), 'Focus mode' (unchecked), and 'Degrees of separation: 1'.

Conformance

Reviewed ~100+ versions of 3rd party software

- New versions of drivers or servers
- Next 11.1.7 LTS will also align to new versions picked up during 11.2.2
- Customer facing documentation provides details
- <https://www.ibm.com/support/pages/ibm-cognos-analytics-premises-112x-supported-software-environments>
- Customers should always review their own suppliers documentation

Customer facing documentation updated

- New and changed features section
- JWT support expanded for more vendors
- Deprecated or removed features section

Expanded Vendor Support for JWT

Support added in 11.2.2 for

- Azure SQL and Synapse, AutoRest, Exasol and Google BigQuery
- Teradata (was in 11.1.7 FP4 but not 11.2.1 or 11.2.0)

Always check the vendors documentation re versions required

- i.e. IBM JCC 4.27+, Exasol 7.1,

Cognos Analytics on Cloud

Connection editor added for Exasol

JDBC drivers aligned to the latest version tested

– As shown under supplementary section in <https://www.ibm.com/support/pages/node/6440667>

Data Science Enhancements

Rahul Gupta

Product Manager

IBM Cognos Analytics Data Science, Competitive analysis, NPS, CA Trial, Sales Enablement

Data Science

- SUMMARY: For CA Watson Studio Integration, dedicated log folders will now be consolidated in a centralized location for easier access. This does not impact the on prem Jupyter notebooks feature.
- MAJOR DIFFERENCE:
- 11.2.1, the logs for dataplatform-service appeared in cognos/analytics/node-services/ca-dataplatform-service/logs/
- 11.2.2, the logs are written to cognos/analytics/logs/cognosserver.log, similarly to the other node services in Cognos (dashboard service, pinboard service, mobile)

Reporting Enhancements

Rachel Su

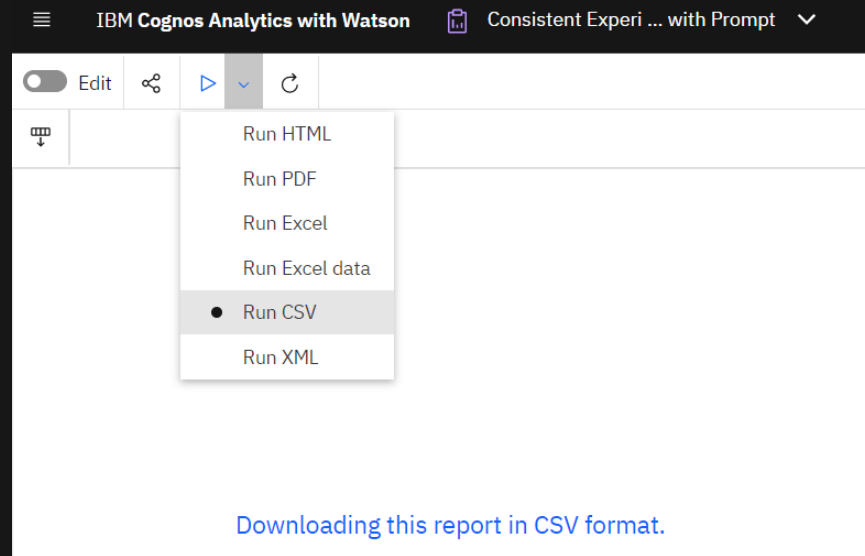
Program Director- Product Management

IBM Cognos Analytics with Watson

Reporting Enhancements

Consistent Experience with Downloadable Formats

- A consistent experience in both classic and interactive modes for running reports that generate downloadable formats (XLS, CSV, XML)
- Download viewer no longer closes automatically
- Consistent and changed toolbar
- Leaving the viewer displayed gives access to all the controls when you are viewing output



Reporting Enhancements

Datastore Improvements

- Numeric type for categories
- Correct sorting of numeric categories when filtering
- Filtering on Null and Empty strings

IBM Cognos Analytics with Watson | * New report

Null, Empty Strings and Sort Order

stringValue	typeofData	monthValue	monthValueText	monthName
Find	String	1	1	Jan
<input checked="" type="checkbox"/>	Null	2	2	Feb
<input checked="" type="checkbox"/> Value1	Empty String	3	3	Mar
<input checked="" type="checkbox"/> Value10	String	4	4	Apr
<input checked="" type="checkbox"/> Value2	String	5	5	May
<input checked="" type="checkbox"/> Value3	String	6	6	June
<input checked="" type="checkbox"/> Value4	String	7	7	July
<input checked="" type="checkbox"/> Value5	String	8	8	Aug
<input checked="" type="checkbox"/> Value6	String	9	9	Sep
	String	10	10	Oct
	String	11	11	Nov
	String	12	12	Dec

☒ Missing values
[Deselect all](#)

Other Enhancements

- Conformance updates: Firefox ESR 91, Windows 11, RHEL 7.9
- Log4j v1 upgrade
- Detect extension uploaded version and disable if not compatible
- Event Studio gaps
 - The ability to change package source for an agent
 - Run an event with parameters

Questions?

Answers