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Problem – Data preparation – few users want to do it

80%

of time spent in analytics is "wrangling" the data ¹

 Cleaning Big Data: Most Time-Consuming, Least Enjoyable Data Science Task ²

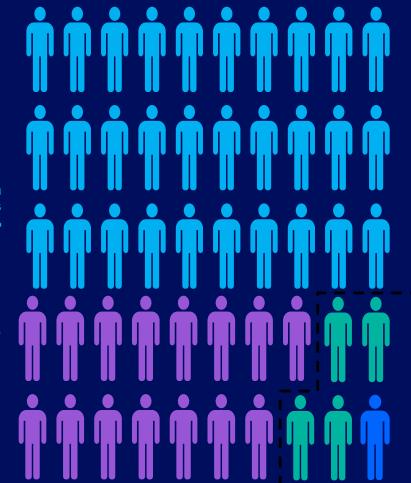


Sloan Management / IBM IBV study 1 Forbes / CloudFlower data science study 2



Data Consumers 60%

Data Explorers 30%



Casual Users

Data Analysts 8%

Power Users

Data Scientists 2%

Static reports

Interactive reports

Personalized reports

Dashboards & Stories

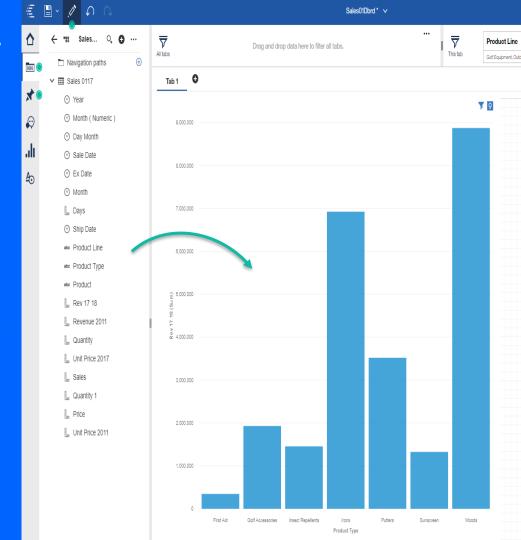
Data modules & ad hoc reports

Packages & professional reports

Data modeling is preparing ...

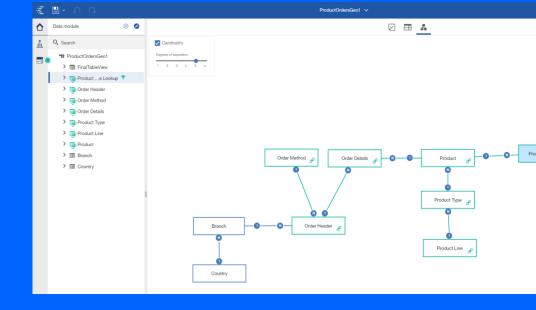
A business-oriented presentation of one or more data sources Easily understood by decision makers

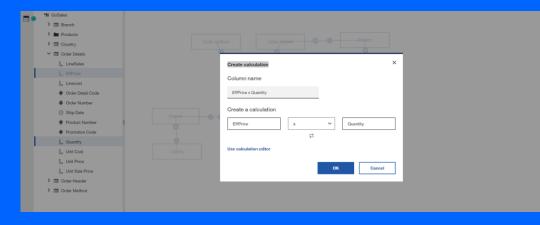
The metadata building blocks for assembling reports, dashboards, and stories



Data modeling is shaping...

- Filtering data to only what's needed
- Augmenting data with calculations
- Joining data sets together
- Cleaning and grouping data
- Setting metadata like aggregation and sorting to the best defaults for reports, dashboards and stories



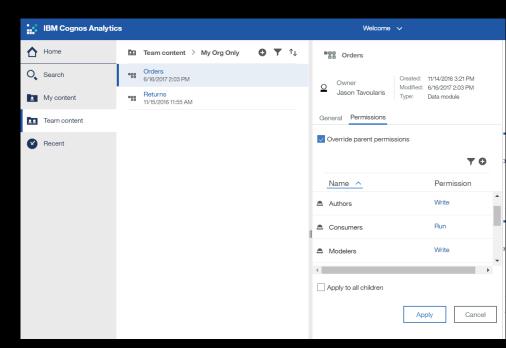


Share and reuse

Shaping data in a dashboard only affects that dashboard

Changes to a data model affect all reports, dashboards, and stories based on it

Save a data model into a folder with suitable security permissions so others can use it as appropriate



Cognos Analytics 11.1 Data modules

Cognos Analytics 11.1 Data Modules - Focus areas

- Improve First Time Use ('data to insight') experience
 - Improve flat file support (multi sheet, append, replace)
 - Base capability additions (Format, Filtering)
 - Simplify complexity of modeling (data module)
- Experience Improvements
 - Clean / Prep data Trim, Split, Date/Time
 - Aggregation roll ups (multi-fact / multi-grain)
 - Built tables Union, Intersect, Except
 - Usability improvements Expression Editor, Folders, SQL, Prettify
 - Relative Date Support

Data cleaning / preparation

Aggregation Roll ups

Usability Improvemen ts Relative Date support

Address 'dirty' data

Data type mismatch

Split data

Combine data

NULL vs 0

Address granularity differences

Avoid double counting

Create from SQL

Expression guidance / assistance

Set Operations

Filters

Format

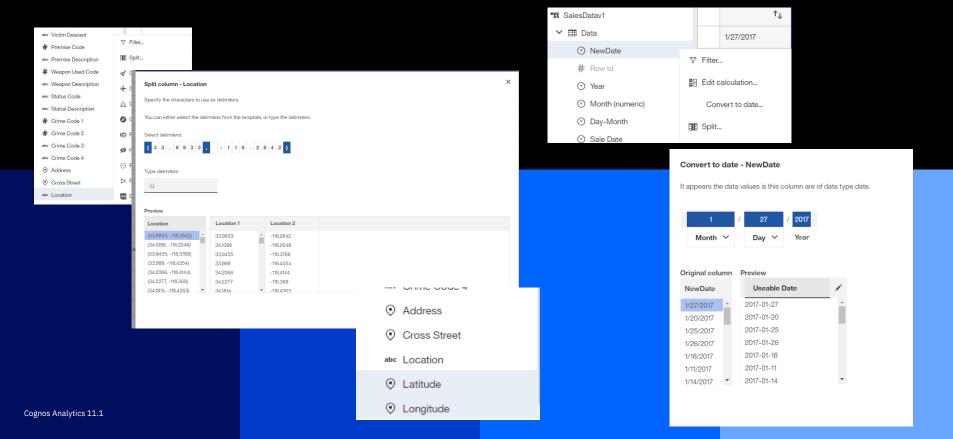
time periods
User defined

18 pre-configured

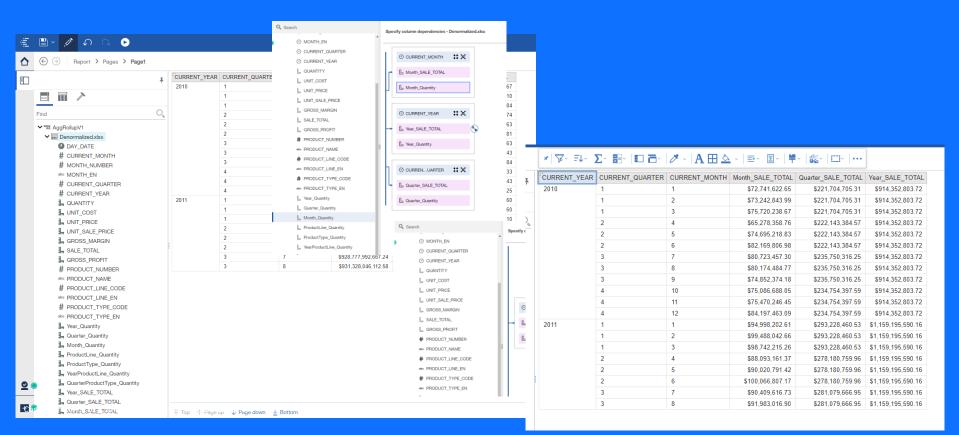
Measures

Full period & To-Date

Data cleaning and preparation

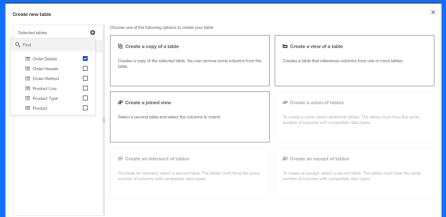


Aggregation Roll ups Multi Fact / Multi Grain

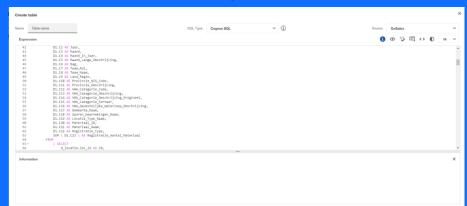


Usability Improvements

Tables and Set Operations



Create table from SQL



Expression Editor guidance



Relative Dates

- Calendars shipping with 11.1
- Gregorian Calendar 1/1 to 12/31
- Samples now includes all 12 months
- Include Calendar in Data module
- It will be hidden by default after addition
 - Relate Date field(s) to calendar (Lookup Reference)
 - Link measure to date field
 - Instructions available to generate another calendar

Note: Currently Months MUST begin on the first day of the month

Split Columns

Aggregation Roll up

Relative Dates



Data modelling improvements

- Flat file multi tab support & append
- Comparative dates month to date, quarter to date(QTD), prior QTD
- Data preparation split column, trim, case
- Recommendation on relationships join, blend
- Aggregation across grains –Multi grain analysis
- Ease of use expression editor, SQL based tables, format, filter
- Set operations Union, Intersect, Except
- Security Filters

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Wrap Up



