



IBM Cognos Analytics 11.0.10

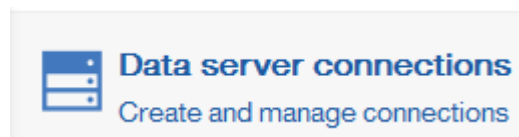
Data Servers, Data Modules and Data Sets

Overview

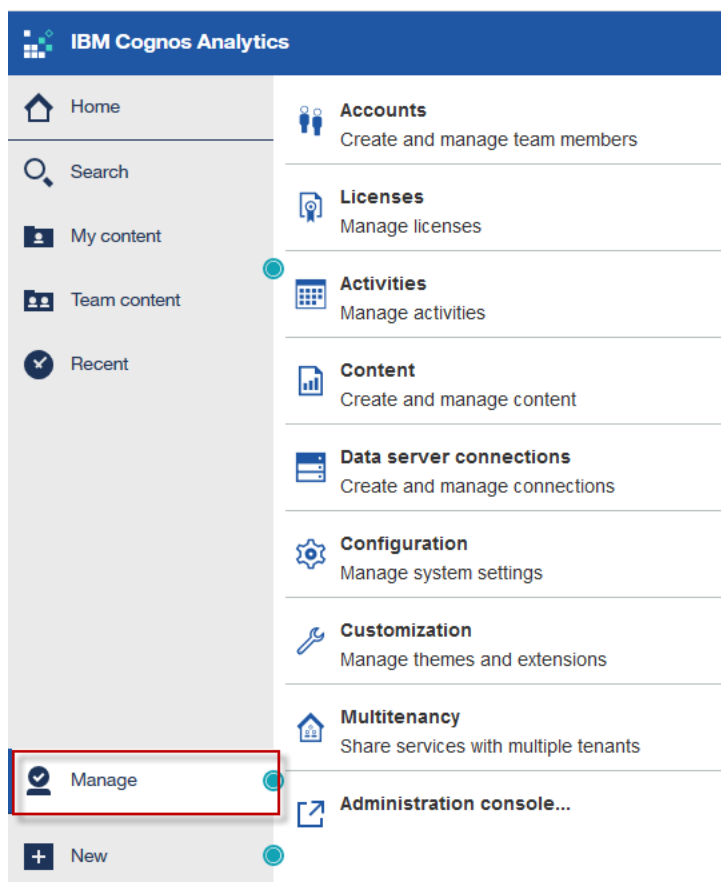
The purpose of this document is to clarify the unique features of each of the above capabilities and describe how they can be used to facilitate self-service analysis and reporting on the IBM Cognos platform.

Data Server

Data server connections are used to connect to existing databases using built-in database drivers (JDBC)

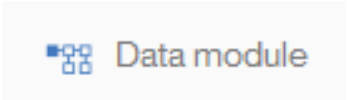


- The user defining the data server connection must know the details of how to connect and authenticate (read-permissions) to the data source
- Once defined, the metadata from one or more schemas must be loaded into the connection definition
- Data server connections can be used as a source for a **data module**
 - Once selected, users are responsible for selecting objects, such as tables and views, from the data server and managing their relationships
- Create and manage data server connections via the **Manage** tool



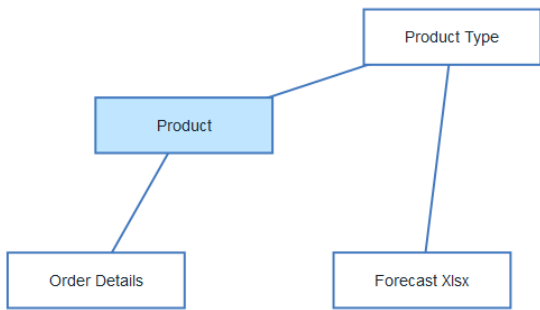
Data Modules

Data modules allow users to combine data from any of the following sources and use in a dashboard or report



Data modules
Data servers
Uploaded files
Data sets
Packages

Users can perform lightweight data modeling within a data module



- Joining tables and disparate sources
- Must be familiar with proper entity relationships, logical business rules and cardinalities

Create relationship

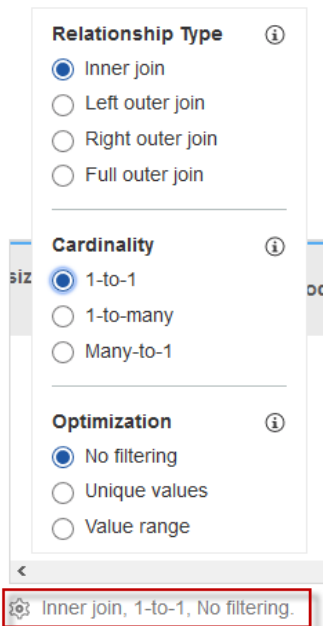


Table 1: Products

Table 2: Forecast Xlsx

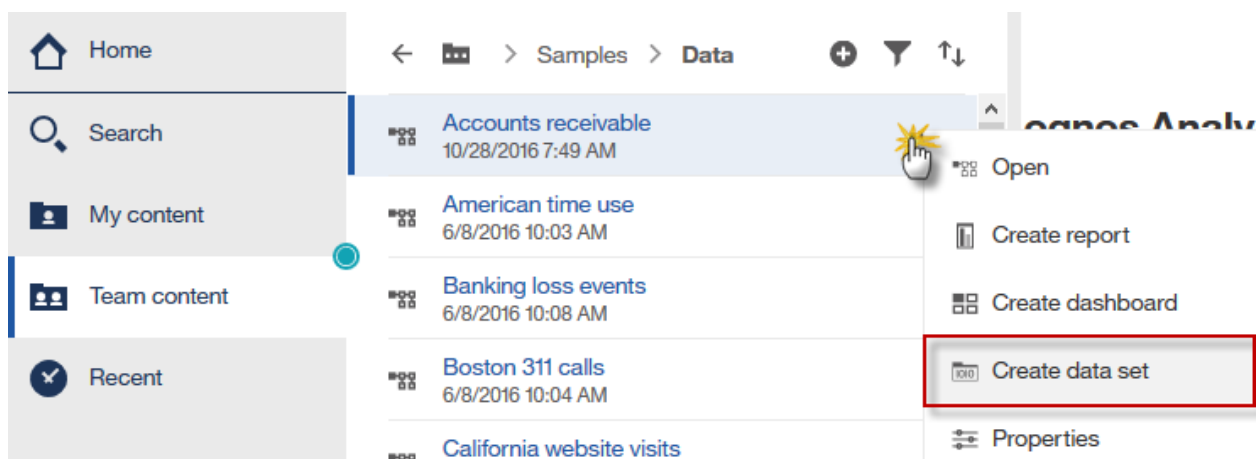
Product type (Table 1) is related to Product type code (Table 2) with a 1 to N cardinality.

Match selected columns



Data Sets

Data sets are created from existing packages or data modules



A data set is actually a data *extract* which can be used as the source for a data module or a dashboard

- Data is stored in the IBM Cognos Content Store
- Data sets can be refreshed manually or via a schedule
- The extract can be filtered to create high-performing subsets of data