

# **Visualizing and Predicting Heart Diseases with an Interactive Dash Board**

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## **IBM Cognos Analytics:**

IBM Cognos Business Intelligence is a web-based integrated business intelligence suite by IBM. It provides a toolset for reporting, analytics, score carding, and monitoring of events and metrics. The software consists of several components designed to meet the different information requirements of a company. IBM Cognos has components such as IBM Cognos Framework Manager, IBM Cognos Cube Designer, and IBM Cognos Transformer.

## **Cognos Connection**

Cognos Connection is the Web portal for IBM Cognos BI. It is the starting point for access to all functions provided by the suite. Using this portal, content can be searched in the form of reports, scorecards, and agents, it can be managed, structured, and displayed. In addition, the portal is used for multiple functions, for example, to schedule and distribute reports, for creating tasks, administering the server, and access permissions to content available to different users. You can also create shortcuts, URLs, and pages.

## **Query Studio**

Query Studio allows simple queries and self-service reports to answer basic business questions. The report layout can be customized and data can be filtered and sorted. Formatting and creation of diagrams are also supported.

## **Report Studio**

The Report Studio is used to create management reports. It offers two different modes: The professional authoring mode enables users to access the full range of Report Studio functionality. In this mode, users can create any type of report, including charts, maps, lists, and repeat functions. In professional authoring mode, all types of Data (relational or multidimensional) can be used, but dynamic data can not be displayed.

The express authoring mode has a more simple user interface, designed for nontechnical users. It enables them to create traditional financial or management reports in a more focused user interface. In contrast to the professional authoring mode, the express authoring mode allows the use of dynamic data.

## **Analysis Studio**

Users can create analyses of large data sources and search for background information about an event or action. The multidimensional analysis allows identifying trends and understanding of anomalies or deviations, which are not obvious in other types of reports. Drag-and-drop features, elements and key performance indicators can be included in the analysis, rows and columns can be switched, and OLAP functionalities like drill-up and drill-down can be used to get a deeper understanding of the sources of the information used in the analysis.

## **Event Studio**

The Event Studio is a notification tool that informs about events within the enterprise in real-time. Therefore, agents can be created to detect the occurrence of business events or exceptional circumstances, based on the change of specified events- or data conditions. A notification may be served by sending an e-mail, its publication in the portal, or by triggering reports. This can be used to handle failure with notification. It is very robust in nature.

## **Workspace**

IBM Cognos Workspace (formerly introduced in version 10.1 as IBM Cognos Business Insight and renamed in version 10.2.0) is a web-based interface that

allows business users to use existing IBM Cognos content (report objects) to build interactive workspaces for insight and collaboration.