Assignment-1

Sai Hemanth Nirujogi
G01065588

Decision Support Systems

"A decision support system (DSS) is a computer-based application that organizes, collects and analyzes data for businesses to accelerate quality decision making for operations and management. DSS analysis enables companies to identify and solve problems and make decisions". [1]

DSS Applications and Areas

SAP Business Objects

SAP BusinessObjects is a solution that helps companies for predicting hundreds and thousands of data models for driving better decisions across the organization. For the ever-changing data, the model needs to be updated to match the business environment of the organization. SAP BusinessObjects Predictive Analytics automates model development by generating and testing huge data for each decision and then it creates the code to deploy models across the organization. When the system needs to update the models, it automatically does by using the latest data.

Main characteristics and capabilities of SAP BusinessObjects are

- Complex patterns hidden in the organization's data can be transformed into actionable insights.
- Customer engagement and the sales of the organization by improving the operational performance and reduces risk across the organization.
- SAP Business Objects makes it easy for the organization maintaining the peak performance and manage hundreds of models.
- Data from several resources is gathered to create a single business report.
- Decision making with sharing, reporting and exploration of data is supported by SAP BusinessObjects.

Parmenides EIDOS

EIDOS is a software solution that helps to achieve decision-making process by using visualization of complex situations in an organization and predicting the possible course of actions by creating a range among the decision-makers. EIDOS helps organizations by resolving dynamic and complex challenges in today's business world by creating a single model with every decision-relevant factors and approach in an optimized format.

Characteristics and capabilities of Parmenides EIDOS

- Ready-to-use strategy models are developed by the EIDOS for limited, integrated processes with common scenarios and basic models that do not require any decisions.
- To understand the data-driven decisions that were developed from the past to present, EIDOS offers a wide variety of visualization options.
- Development of data over time can be visualized using the Data Landscape tool.
- Trends in data can be visualized with a dynamic timeline of time and other developments in the data.
- Management tasks and problem-solving tools for strategies are included in the EIDOS.

WebFOCUS

"WebFOCUS is an information retrieval tool used in the business intelligence and analytics platforms, created by Information Builders. The main aim of WebFOCUS is to enable users access to a wide variety of databases and systems from a web browser, using its query and reporting engine. This tool helps a wide range of users by delivering interactive information through ad hoc query, reporting & analysis, dashboards and portable analytics". [2]

The main characteristics and capabilities of WebFOCUS are

- Data discovery - By creating visualizations, data from the past to present can be explored to find trends and patterns.
- High-performance query and response times while data discovery.
- Dashboard - Company performance can be tracked and monitored.
- Data analysis - Documents, charts, reports and other analytics can be performed for sharing and distribution in dynamic formats.
- Strategic Planning
- Predictive Analytics
- Consistent throughput of data and integrity solutions. [2]

Areas

Sports and Entertainment

SAP Sports one is an innovative technology to acquire, develop and maintain all the sports data acquired in real-time. By using team management in SAP Sports one, insights from each player data across coaching, training and medical processes can be viewed.

Business and Management

DSS is extensively used in the field of business and management. Creation of executive dashboard and other business performance software provides fast decision making, good allocation of resources and negative trends identification. DSS gives the information of any organization in the form of data visualization i.e charts and graphs, this helps a lot in making strategic decisions.

Medical Diagnosis

Medical Diagnosis makes use of clinical decision support systems. There are mainly 4 stages in clinical DSS:

Standalone is the primitive version (no integration support), the Integration support is the second version, Standard-based and Service model-based are the other two versions.