

SURVEY ON DATA WAREHOUSE REPORT VISUALIZATION USING CODE APPROACH

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ABSTRACT --- Several techniques and tools have been used to visualize datasets relationship. But everything is related to single dataset and that are not applicable to relate multiple dataset. In this paper, a design methodology exploiting the visual approach CoDe based on a logic paradigm. CoDe allows organizing the visualization through the CoDe model graphically. It represents relationships between information items and can be considered an abstract map of the view.

Key Terms--- CoDe modeling, OLAP operation, SQL, Data Mining, data cubes.

I. INTRODUCTION

Graphic representation of scientific data or of information obtained by scientific observations and processing, has been widely investigated. Often the graphic representation of information has been confined to specialist areas each one developing its own professional communication techniques. Less attention has been devoted to visualizations of complex and heterogeneous information variously interconnected with each other. Typical examples are visualizations of

statistical data. Visualization techniques of scientific information are recently getting growing attention. Moreover, modern decision-making requires a greater skill to quickly acquire variously interrelated data rather than single and isolated information. Cognitive maps summarizing relationships without loss of details are useful supports. A wide set of tools is already available for visual representation of tabular reports by means of standard graphs as Histograms, Pies and so on. However, these tools usually only allow representation through separated graphs and cannot visualize relationships between information contained in different reports. The main scope of our project is to develop a graphical design language named CoDe. The CoDe used to show the dataset content in set of graphs. These graphs are represents the realistic visual effects of each table in the datasets. It also represents the relationship between the graphs. The CoDe supports the OLAP operations such as splitting, slicicing, trimming on the given datasets.

II. LITERATURE SURVEY

In this section, the CoDe technique is used but it is for only single dataset. CoDe technique is not applicable to multiple

dataset. The CoDe (Complexity Design) graphic language we introduce in this paper aims to describe the complex information related to a system by means of a visual approach that follows the idea of microscope. We define the syntactic and semantic specification of CoDe to establish a methodological framework to interactively support the observer of the complex information related to a system with proper visual representations [1]. To work in graphical environment the data's are represented as multidimensional data cubes like 2D, 3D or even high dimensional data cubes. Multi dimensional data processing has enjoyed spectacular growth of late. Two basic implementation approaches that facilitate OLAP. The first approach is to eschew SQL and relational database and to use proprietary multi dimensional database. To allocate only space for those cells present in the raw data and not every possible cells of the data cube, a cell address hashing scheme is used. This approach materializes all the cells of the data cube present in the raw data which can be very large [2]. So that only relational database systems are used. The relational approach is very scalable and can handle very large data warehouses [2]. Three basic types of OLAP schema (star, snowflake and galaxy). Based on these observations presented the model for the integration of data mining and OLAP along with the automatic generation of OLAP schema. They have developed a prototype for the automatic schema generation. Use of other data mining techniques along with OLAP for the schema generation [3]. For generating automatic schema generation data mining technique along with OLAP is

used. For the graphic language only OLAP operations are needed. The OLAP operations used in the graphics languages are drilling, slicing, pivoting, rolling. These operations are used for the single dataset. We are going to propose this concept for the multiple dataset using CoDe approach.

SUMMARY OF LITERATURE SURVEY

AUTHORS	WORK TITLE	AREA OF WORK		
		CoDe	OLAP	3DIMCUBE
P. Ciuccarelli	CoDe: A graphic language for complex system visualization	Y	N	N
David Eng	Combining Static and Dynamic Data in Code Visualization	N	N	N
Muhammad Usman	A Conceptual Model for Combining Enhanced OLAP and Data Mining Systems	N	Y	N
S. Chaudhuri	An overview of data warehousing and olap technology	N	Y	N
V.Harinarayan	Implementing Data Cubes Efficiently	N	Y	Y
PROPOSED PAPER	Data warehouse report visualization using code approach	Y	Y	Y

III. CONCLUSION

In this paper, our proposed code approach used to shows the data warehouse data in graphical manner and also represents the relationship between the graphs to the end user. This approach also performs the SQL and OLAP operations like select, insert, update, delete, joins, views for SQL and slicing, dicing, pivoting, drill up, drill down for OLAP operations. The visualization design based on CoDe model leads the user to accurately select

information items to be displayed in accordance with their importance and interrelations. CoDe representation of cognitive maps providing the information relationships underlying a complex visualization could also be useful to study image clustering techniques and data mining applications.

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