An In-depth Review about The Development of National Health Data Warehouse for Data Mining.pdf

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A Critical Review on the Development of National Health Data Warehouse for Data Mining

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Abstract—Health informatics is now one of the top priorities of computer science researchers. Health care organizations face problem with the big amount of data. This problem can be eradicated by data warehousing. Requirement analysis, data design, architectural design are the tasks of data warehousing. This report indicates prospects and difficulties of data warehousing and mining and propose a model.

Index Terms—Data mining; Data warehouse; Health informatics.

I. SUMMARY
This study refers to determine the obstacles for health care data integration and to propose a data-warehousing model for Bangladesh as well as other countries. A data warehouse is a subject oriented, integrated collection of data. A health data warehouse is different from a hospital’s database. The progress of computing technologies and large storing capacity have heightened the attention of researchers to research into the domain of data warehouse and data mining. The result of the data warehousing and mining practice dedicated to providing benefits to the entire health care ecosystem. In the health care sector, one of the most popular techniques of data mining is classification. Especially in the public health care sector, data warehousing provide a way of standardize data across organization

II. CONTRIBUTION
Data warehousing is used in many areas. In the health care field, it is becoming popular for restructuring the data so that it delivers excellent query performance. The literature review reveals most of the analysis works are occurring in restructuring and the integration of health care data. On the contrary, several efforts took to analyze the data using different techniques. This study is to construct health care data to increase the quality of real time decision making process. The national health data warehouse helps to develop national health standards. It provides better and faster services to patient. It helps doctor to do research about patients.

III. LIMITATION
There are lack of documentation about the structure of the data. There are lack of cooperative mind among different health service providers to help government to set up a national health care data warehouse.

IV. CONCLUSION
For national health care data warehouse, star schema is a perfect data warehouse model. Health service providers should cooperative and honest to help government about national health care data warehouse. Eventually we can say, national health data warehouse is an epoch making step in e-health system.

REFERENCES
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