Business and Management Scenario

Elbio Iseas

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Daniel McDonald

**Introduction**

There is a need for improving the operational efficiency of a medical supplies company. In order to achieve this goal the company is thinking of using a data warehouse with a centralized architecture. The organization will implement and use the data warehousing to overcome the issue of poor operational efficiency. The advice for this company is to use a data warehouse with a dimensional model with fact tables and dimension tables in a Star Schema.

**Mission Statement**

The company manufactures, sells, and ships medical supplies of the best possible quality with the purpose of giving the general public very good products by meeting and exceeding national and international standards.

**Scope**

The data warehouse will examine and find the causes of poor operational efficiency by using business intelligence and advanced querying techniques allowing users to run reports, querying the data warehouse, and update information.

**Project Planning**

The project planning for this application will consider the issues that can arise when planning the data warehouse to fix the poor operational efficiency performance like how valuable for the company would be the data warehouse. This data warehouse will fulfill most of the company’s expectations regarding the issue at hand. In the project planning the company will have a thorough risk assessment considering for instance the cost that would occur if the application does not achieve the goals, at all or partially; the type of losses that can come by not reaching the purpose pursued; what would be the opportunities missed.

A top-down approach in the building of the data warehouse will analyze the company entirely in all its operations, and it will go from departments to sections in an effort to optimize efficiency performance. In the building of the data warehouse there are two options: the chance of “in-house software” (Ponniah, 2010), or to outsource the project to a software company, whichever gives the company a better return on investment.

**Management**

The project will have complete support from management in order to succeed.

**Business requirements for the design**

The gathering of business requirements will have three methods for obtaining information:

1. Performing interviews

In this method, the interviewer schedules up to three people to interview. The best results come with the best preparation for the interview.

1. Grouping people

Requirements are obtained by grouping people of up to 20.

1. Using questionnaires

It offers advantages when people are too busy or are in very different places.

**Sponsorship**

The sponsors for this project are:

* Management,
* Owners,
* People who do not belong to the company.

**Dimensional model**

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|  | Items |  |  |  |  |  |  |  | Departments |  |
|  | Item\_Id |  |  |  |  |  |  |  | Department\_Id |  |
|  | Item\_Name |  |  |  |  |  |  |  | Department\_Name |  |
|  | Item\_Description |  |  |  |  |  |  |  | Department\_Notes |  |
|  | Item\_Location |  |  |  |  |  |  |  |  |  |
|  | Item\_Notes |  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  | Order\_Id |  |  |  |  |  |
|  |  |  |  |  | Order\_Date |  |  |  |  |  |
|  |  |  |  |  | Order\_Item |  |  |  |  |  |
|  |  |  |  |  | Order\_Quantity |  |  |  |  |  |
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|  |  |  |  |  | Order\_Notes |  |  |  | Invoices |  |
|  | Purchase\_Orders |  |  |  | Order\_Invoice\_Id |  |  |  | Invoice\_Id |  |
|  | PO\_Num |  |  |  | Order\_PO\_Num |  |  |  | Invoice\_Date |  |
|  | PO\_Date |  |  |  |  |  |  |  | Invoice\_Amount |  |
|  | PO\_Notes |  |  |  |  |  |  |  | Invoice\_Tender |  |
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**Conclusion**

The use of the data warehouse will provide a solution to the issue listed above. The design of data warehouse will make easy the extraction of information to give executives more elements to make the right decisions about their business.

References

Ponniah, P (2010) Data Warehousing Fundamentals for IT Professionals, Second Edition. John Wiley & Sons, Inc.

<http://www.informationqualitysolutions.com/page3/page8/page8.html>