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MIS FOR THE DFCC BANK



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Dissertation submitted to the Faculty of Information Technology, University of Moratuwa, Sri Lanka for the partial fulfillment of the requirements of the Degree of M.Sc. in Information Technology

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Dedication

To Dr. Gamini Wijayarathna with heart felt gratitude.



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Declaration

I certify that this dissertation does not incorporate, without acknowledgement, any material previously submitted for a degree or diploma in any university and to the best of my knowledge and belief, it does not contain any material previously published or written by another person or myself except where due reference is made in the text. I also hereby give consent for my dissertation, if accepted, to be made available for photocopying and for interlibrary loans, and for the title and summary to be made available to outside organizations.

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ABSTRACT

The aim of this project has been to design and implement a MIS system for DFCC Bank, which contains Integrated Management Information by consolidating data from multiple applications used by different subsidiaries within the DFCC group. Even though initially the system would be used for operational purposes of identifying customer/corporate credit exposures from a global perspective with respect to DFCC as a group of companies, it is envisaged that information accumulated over a period of years would be used for effectively identifying trends on customer/product behavior and money laundering.

Out of the several systems within the DFCC group the following applications were selected for integration of data. 'NetSYMBOLS' core banking application of DFCC BANK. 'NetSYMBOLS' Retail Banking & Branch Teller application and 'BANKTRADE' e-Commerce application of DFCC VARDHANA bank. One of the shortcomings of the present environment is the lack of integrated analytical data. Even though the same individual/corporate customer might be transacting thru above three systems a global perspective on the customer is unattainable, since they are not integrated.

The main functionality of the MIS is to extract data from all three systems, integrate and categorize them using a staging area and finally maintain processed information in granular and summarized form within an On-Line Analytical Processing (OLAP) enabled data warehouse backend. Due to the limitations in making amendments to existing OLTP applications intermediate tables are maintained in the staging area to cleanse the incoming data. The front end is implemented using Oracle Business Intelligence package since it makes optimum use of OLAP compatible data in reporting and provides the option for

end users to build their own reports in addition to pre defined reports. Since the data is OLAP compatible, forecasting and trend analysis using data mining tools is a definite possibility.



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