Construction of a Sales Management Program for Hadicomex Vietnam Ha Using Oracle Technology

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***Abstract*—This thesis focuses on the development of a sales management program for Hadicomex Vietnam Ha using Oracle technology. The work covers the theoretical foundations of Oracle, including its physical and logical layers, transaction management, and security features. The author also explores Oracle's network model and PL/SQL language. The thesis details the analysis and design of the system, including the use of Oracle Developer 10g for form, report, and query builder functionalities. The program provides various management functions such as declaration, search, and statistical reporting. However, due to time and budget constraints, some functionalities were not fully tested, and practical applications were limited. Future directions include expanding the application to a web-based platform and developing an Oracle Web Server for remote data access.**

***Index Terms*—Oracle, PL/SQL, Sales Management, Database, Developer 10g**

I. Introduction

The thesis provides an in-depth analysis of database systems, focusing on Oracle technology. It covers the theoretical aspects of Oracle, such as its physical and logical layers, transaction management, and security features. The author also discusses the network model of Oracle and the PL/SQL language. The work aims to develop a sales management program for Hadicomex Vietnam Ha, utilizing Oracle Developer 10g for form, report, and query builder functionalities. The program is designed to manage various sales-related tasks, including declaration, search, and statistical reporting. However, due to time and budget constraints, some functionalities were not fully tested, and practical applications were limited [1].

II. Methods

The methods section covers the theoretical foundations of Oracle, including its physical and logical layers, transaction management, and security features. The author also explores Oracle's network model and PL/SQL language. The system analysis and design are detailed, with the use of Oracle Developer 10g for form, report, and query builder functionalities. The program provides various management functions such as declaration, search, and statistical reporting. The author acknowledges that due to time and budget constraints, some functionalities were not fully tested, and practical applications were limited. Future directions include expanding the application to a web-based platform and developing an Oracle Web Server for remote data access [1].

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III. Results

The thesis details the development of a sales management program for Hadicomex Vietnam Ha using Oracle technology. The program includes functionalities such as declaration, search, and statistical reporting. However, due to time and budget constraints, some functionalities were not fully tested, and practical applications were limited. The program was developed using Oracle Developer 10g for form, report, and query builder functionalities. The author tested the program's basic functionalities, but comprehensive testing was not possible due to the constraints. The program provides a user-friendly interface with various menu and toolbar options, but its practical application was limited due to the lack of real-world testing [1].

IV. Discussion

The author discusses the theoretical foundations of Oracle, including its physical and logical layers, transaction management, and security features. The network model of Oracle and the PL/SQL language are also explored. The program developed provides various management functions, but the author acknowledges that some functionalities were not fully tested and practical applications were limited. The limitations include the lack of comprehensive testing and the limited practical application of the program. Future directions include expanding the application to a web-based platform and developing an Oracle Web Server for remote data access [1].

V. Conclusion

The thesis concludes that the author has successfully developed a sales management program for Hadicomex Vietnam Ha using Oracle technology. The program includes functionalities such as declaration, search, and statistical reporting. However, due to time and budget constraints, some functionalities were not fully tested, and practical applications were limited. The program provides a user-friendly interface with various menu and toolbar options, but its practical application was limited due to the lack of real-world testing. Future directions include expanding the application to a web-based platform and developing an Oracle Web Server for remote data access [1].

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