Research and Development of the Functionality of Online Stock Price Table

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***Abstract*—This thesis focuses on the development of an online stock price table, exploring its functionality and structure. The research examines the basic concepts of the stock market, including stock definitions, trading mechanisms, and market participants. The study also delves into the design and implementation of a database for the online stock price table, using Oracle database management tools. The work aims to support stock market operations and provide a convenient tool for investors to track stock movements. The study covers the creation of database structures, data access, and the use of PL/SQL for transaction management and data manipulation. The research also explores the functionality of views and synonyms in Oracle, contributing to the understanding of stock market operations and the use of database management tools.**

***Index Terms*—stock market, online stock price table, Oracle database, data integrity, PL/SQL**

I. Introduction

The thesis introduces the stock market and its basic concepts, such as stocks, investors, and trading mechanisms. It highlights the importance of online stock price tables in facilitating investment decisions. The research aims to develop an online stock price table to support stock exchanges and investors. The study covers the creation of database structures, data access, and the use of PL/SQL for transaction management and data manipulation. The research also explores the functionality of views and synonyms in Oracle, contributing to the understanding of stock market operations and the use of database management tools [1]. Published books on the methods and subject of this project provide context for this English summary [2], [3].

II. Methods

The methods section details the design and implementation of the online stock price table using Oracle database management tools. It covers the creation of database structures, data access, and the use of PL/SQL for transaction management and data manipulation. The study also examines the functionality of views and synonyms in Oracle. The research includes the creation of tables, indexes, and data integrity constraints to ensure data accuracy and security. The implementation involves the use of PL/SQL procedures and packages to manage transactions and data. The study also explores the use of synonyms to provide secure and convenient data access [1].

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III. Results

The results include the development of a database structure for the online stock price table, the implementation of data access mechanisms, and the use of PL/SQL for transaction management. The study also examines the functionality of views and synonyms in Oracle. The research demonstrates the creation of tables, indexes, and data integrity constraints to ensure data accuracy and security. The implementation of PL/SQL procedures and packages for transaction management and data manipulation is successful. The use of synonyms provides secure and convenient data access. However, the study does not provide a measured evaluation of the system's performance or user satisfaction [1].

IV. Discussion

The discussion section analyzes the relationship between the online stock price table and its components, such as tables, views, and data integrity constraints. It also explores the interaction between the intelligent stock price table and users. The study highlights the importance of data integrity and security in the stock market. The research contributes to the understanding of stock market operations and the use of database management tools. The discussion also addresses the limitations of the study, such as the lack of a comprehensive evaluation of the system's performance and user satisfaction [1].

V. Conclusion

The conclusion summarizes the development of the online stock price table and its potential benefits for stock exchanges and investors. The research contributes to the understanding of stock market operations and the use of database management tools. The study demonstrates the successful implementation of database structures, data access, and transaction management using PL/SQL. The use of synonyms provides secure and convenient data access. However, the study does not provide a measured evaluation of the system's performance or user satisfaction [1].

References

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