

Kurunegala Plantations Limited

Development of a database system for managing coconut trade for Kurunegala Plantations Limited

Project Scope

The objective of this project is to develop an integrated database system for business activities such as plantations, suppliers, purchases, orders, payments, storage, routes, and quality inspections within Kurunegala Plantations Limited. The objective is to provide an efficient and reliable system, minimizing data errors, delays, and information failures that occur due to the current manual methods or the use of separate systems.

Main tasks

1. Identify the main entities related to the business (e.g. Estates, Suppliers, Buyers, Coconut Stocks, Orders, Payments, Warehouses, Quality Inspections)
2. Create an ER diagram with relationships and cardinalities
3. Convert the ER diagram to a logical schema (Relational Schema)
4. Table creation
5. Create a physical database using SQL (Table, Constraints, Primary/Foreign Keys)
6. Insert at least 10 records into a main table

7. Prepare reports and queries (SELECT, GROUP BY, JOIN, Procedures, Functions, Triggers)
8. Expected results Implement a complete database structure and SQL
9. Business reporting and analysis facilities
10. Improvement of data accuracy, security and efficiency

Conclusion

This project will provide Kurunegala Estate Company with a comprehensive database management system. The aim is to provide a modern data system for management, trading, payments, quality testing and reporting. This will help improve the organization's decision-making and business efficiency.