CASE STUDY

Fruits Sales Supply Management System (FSSMS)

FSSMS is a comprehensive solution for fruit businesses, providing efficient inventory management and sales tracking to optimize supply chain processes. With user-friendly features, it enhances operational efficiency and customer satisfaction in the fruit sales industry.

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Project Title

Fruits Sales Supply Management System (FSSMS)

Base On Company

Fruitage Paradise Farms Limited

About Company

Fruitage Paradise Farms Limited, a distinguished entity in the heart of Bangladesh's agricultural landscape, boasts a rich legacy spanning three decades. Established in 1992, the company has evolved into a powerhouse, specializing in the cultivation, distribution, and export of a wide array of fruits. Fruitage Paradise takes pride in offering a diverse portfolio that includes both locally sourced treasures and premium quality foreign fruits. With an unwavering commitment to excellence, Fruitage Paradise has become synonymous with quality assurance and customer satisfaction.The company's extensive experience and dedication to delivering the finest fruits have garnered it immense fame and a stellar reputation in the industry. Its portfolio encompasses a selection of exotic foreign fruits alongside the best of Bangladesh's harvest, ensuring a delightful variety for consumers. Operating through a network of 24 outlets strategically positioned across Bangladesh

Why is It necessary to make for this project....

1. Operational Efficiency:

FSSMS aims to streamline and automate key processes related to inventory management, sales tracking, and delivery logistics. By reducing manual efforts and optimizing workflows, the software enhances overall operational efficiency.

2.Data Accuracy and Organization:

With a complex SQL database comprising 25 tables, FSSMS ensures the accurate organization and management of diverse data sets. This structured approach improves data integrity, reduces errors, and enhances the reliability of information.

3. Data Accuracy and Organization:

The software focuses on providing a seamless in-shop experience for customers, allowing them to easily check stock and make purchases. This emphasis on customer satisfaction is crucial for retaining existing customers and attracting new ones

4. Business Insights and Decision-Making:

FSSMS incorporates reporting and analytics features that provide valuable insights into sales trends, inventory levels, and overall business performance. This data-driven approach supports informed decision-making for strategic planning and growth.

5. Delivery Process Optimization:

The software optimizes the delivery process, ensuring efficient and reliable deliveries. This is essential for meeting customer expectations and maintaining a competitive edge in the market.

CONSISIT OF THIS PROJECT

1. Database Creation:
The project begins by creating a database called 'CMS' with appropriate file settings and initial table allocation.

2. Table Creation:
Tables are designed to store data for Customer, Employee, Location, Product, Income, and Transaction. Primary keys, foreign keys, and constraints are defined for data integrity.

3. Alter, Drop, and Modify Tables & Columns:
The project demonstrates altering, dropping, and modifying table columns to adapt to changing requirements.

4. Create Clustered and Non - Clustered Index:
Clustered and non-clustered indexes are implemented to improve query performance.

5. Create Sequence & Alter Sequence:
Sequences are utilized to generate unique identifiers for table records, and sequence properties are altered for specific use cases.

6. Create a View & Alter View:
Views are created to simplify data access and present a subset of data from the Customer table

7. Create Stored Procedures:
Stored procedures are implemented for inserting, updating, and deleting data from the product table using parameters.

8. Create Functions:
Scalar-valued and table-valued functions are created to perform computations and return specific results.

9. Create Triggers:
Triggers are defined for the loans table to restrict updates and deletions based on specified conditions.

10. Data Retrieval:
Various sql queries are designed to retrieve data from different tables using **SELECT, INNER JOIN, LEFT OUTER JOIN, CROSS JOIN, SUBQUERIES, EXISTS, CTE, FETCH-OFFSET, ROLLUP, CUBE, IIF, CASE, CHOOSE, COALESCE, ISNULL, ANY, SOME**, and all clauses.

End