Misti Chandra (BFT/22/276)

Khushi(BFT/22/702)

data management FOR APPAREL BUSINESS

EXPORT MANAGEMENT SYSTEM JURY CONCEPT NOTE AND THEORY REPORT

ABOUT THE COMPANY:

Mimi pvt.ltd is a private company that stands as an eminent trailblazer in the realm of international trade, specializing solely in the exportation of fabrics. With an unwavering commitment to fostering global connections and delivering exceptional quality, we have established ourselves as a beacon of reliability and excellence in the export industry.

HOW THE COMPANY OPERATES:

For a company focused solely on exporting goods or services, the operations primarily revolve around preparing, managing, and executing export-related activities. Here's a simplified overview of the operations:

Market Research and Identification:

Researching international markets to identify potential opportunities and demand for the company's products or services.

Analyzing market trends, competitors, and regulatory requirements in target countries.

Product Adaptation and Compliance:

Modifying products or services to meet the requirements and preferences of the target export markets.

Ensuring compliance with international trade laws, quality standards, and regulations in the exporting and importing countries.

Documentation and Logistics:

Handling export documentation, including invoices, customs paperwork, and permits required for shipping goods across borders.

Arranging logistics for transportation, including choosing shipping methods, packaging, and coordinating with freight forwarders or carriers.

Pricing and Quoting:

Determining pricing strategies that are competitive yet profitable in the international market.

Providing quotes to potential buyers or distributors, considering factors like shipping costs, taxes, and currency exchange rates.

Negotiation and Contracts:

Negotiating terms and conditions with overseas buyers or distributors, including payment terms, delivery schedules, and quantities.

Drafting and finalizing contracts that outline the rights and responsibilities of both parties involved in the export transaction.

Order Processing and Fulfillment:

Processing export orders received from international buyers, verifying product availability, and preparing shipments.

Ensuring timely and accurate delivery of goods or services to the overseas.

HOW DBMS WILL HELP US:

A Database Management System (DBMS) would play a crucial role in supporting a company focused solely on exports by efficiently managing and organizing various aspects of their international trade operations:

Data Organization and Management:

Storing and organizing essential data related to export activities, such as product details, customer information, shipping records, pricing structures, and international market research.

Centralized Information Storage:

Keeping a centralized repository of export-related documents, including invoices, contracts, shipping documents, and compliance records for easy access and retrieval.

Order Processing and Tracking:

Managing export orders, tracking order statuses, and maintaining a record of customer inquiries, purchase orders, and delivery schedules.

Financial Data Handling:

Recording financial transactions related to exports, including invoicing, payments, currency conversions, and monitoring accounts receivable/payable.

Inventory and Logistics Management:

Tracking inventory levels of exportable products, managing stock availability, and coordinating logistics for efficient shipping and delivery.

Reporting and Analytics:

Generating reports on export sales, revenue, expenses, market trends, and performance metrics for informed decision-making and future planning.

Compliance and Documentation:

Ensuring compliance with international trade laws, regulations, and customs requirements by storing and managing necessary export documentation within the system.

Customer Relationship Management (CRM):

Maintaining customer profiles, preferences, order history, and communication records to enhance relationships with international buyers and distributors.

Security and Access Control:

Implementing security measures to protect sensitive export-related data and granting access based on roles and permissions to ensure data integrity.

Integration and Scalability:

Integrating the export-focused DBMS with other systems (such as ERP, logistics, or financial systems) for seamless data flow and scalability as the export business grows.

By efficiently managing and organizing export-related data and processes, a well-designed DBMS would streamline operations, reduce manual effort, minimize errors, and provide valuable insights for making informed decisions in the international trade landscape.

ENTITIES AND THEIR ATTRIBUTES:

Order:

Order\_ID (Primary Key)

Order\_Date

Client\_ID (Foreign Key)

Fabric\_ID (Foreign key)

Status (Processing, Shipped, Delivered)

Shipment:

Shipment\_ID (Primary Key)

Order\_ID (Foreign Key)

Shipment\_Date

Shipment\_Status (In Transit, Delivered)

Carrier\_Details

Client:

Client\_ID (Primary Key)

Client\_Name

Contact\_Details (Email, Phone)

Address

Supplier:

Supplier\_ID (Primary Key)

Supplier\_Name

Contact\_Details (Email, Phone)

Address

Employee:

Employee\_ID (Primary Key)

Employee\_Name

Position/Role

Contact\_Details (Email, Phone)

Inventory:

Inventory\_ID (Primary Key)

fabric\_ID (Foreign Key)

Supplier\_ID (Foreign Key)

Reorder points

Invoice:

Invoice\_ID (Primary Key)

Order\_ID (Foreign Key)

Invoice\_Date

Total\_Amount

Payment\_Due\_Date

Fabrics:

Fabric\_ID (Primary Key)

Fabric\_Type

Fabric\_Description

Supplier\_ID (Foreign Key)