Database Management Project

Deliverable 0: Project Proposal (Initial Setup)

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Written Proposal for Computer Store Management System

Purpose for the Database

The Computer Store Management System is designed to manage product inventory, track customer purchases, details of suppliers and order details. Its main purpose is to precise stock monitoring, simplifies the order processing workflow, and improves supplier coordination. Moreover, it enhances customer relationship management by storing purchase histories and customer information.

Key functionalities

- Inventory Management: Monitor stock levels, organize product categories, and automate the restocking process with suppliers.
- Order Processing: Oversee customer orders and document purchases.
- Supplier Management: Keep supplier information on file and track products being received.
- Customer Management: Manage customer profiles, including their purchase history and contact details.
- Reporting: Produce reports on sales, inventory, and suppliers to gain business insights.

Entities included in the Database

1) **Products:**
   a) Product ID (Primary Key)
   b) Product Name
   c) Brand
   d) Price
   e) Stock Level
   f) Supplier ID(Foreign Key)

2) **Suppliers:**
   a) Supplier ID (Primary Key)
   b) Name of the Supplier
   c) Phone
   d) Email
   e) Address
   f) Product ID(Foreign key)

3) **Customers:**
   a) Customer ID(Primary Key)
   b) Customer First Name
   c) Customer Last Name
   d) Phone
   e) Email
   f) Address

4) **Orders:**
   a) Order ID (Primary Key)
   b) Customer ID (Foreign key)
   c) Customer First Name(Foreign key)
   d) Customer Last Name(Foreign key)
   e) Date
   f) Product ID(Foreign key)
   g) Online Order (Yes or No)
   h) Store Order (Yes or No)
   i) Total Amount
   j) Quantity

5) **Employees:**
   a) Employee ID
   b) First Name
   c) Last Name

d) Position
e) Salary

Types of Reports

- Monthly Sales Reports
- Inventory Reports
- Customer Purchase History
- Suppliers Orders List
- Profit Margin Report

Relationship Diagram

Orders	
OrderID PK	Auto Generated
CustomerID FK	string
CustomerFirstName FK	Auto Generated
CustomerLastName FK	Auto Generated
Date	Date & Time
ProductID FK	Auto Generated
OnlineOrder	Yes/No
StoreOrder	Yes/No
TotalAmount	Number
Quantity	Number

"contains"

Employees	
EmployeeID PK	Auto Generated
FirstName	Short text
LastName	Short text
Position	Short text
Salary	Currency

"belongs to"

Products	
ProductID PK	Auto Generated
ProductName	Short Text
Brand	Short Text
Price	Number
StockLevel	Number
SupplierID FK	Auto Generated

"supplied by"

Customers	
CustomerID PK	Auto Generated
FirstName	Short Text
LastName	Short Text
Phone	Short Text
Email	Short Text
Address	Short Text

Suppliers	
SupplierID PK	Auto Generated
Name	Short Text
Phone	Short Text
Email	Short Text
Address	Short Text
ProductID FK	Auto Generated