Electronic Stores Software

A solution to manage electronic business easily with full of features including real-time inventory and supplier management, employee performance, cloud-based capabilities that will eliminate the cost of business operation, increase profit, and enhancing customer experience.

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Introduction:  
The electronics industry is a rapidly growing market in Toronto, with different new devices and technologies that are emerging. To keep pace with this competitive market, it requires a systematic solution for managing inventory, sales, employee productivity and customer interactions. Developing a software application with a centralized database that is specially designed for the needs of the electronic retail industry would streamline the operations for electronic stores, allowing the business to cater effectively to its operation.  
  
Problem Statement:

Among the numerous electronic-store locations opened, we’re working to provide a diverse customer base with the electronic supplies they need. Efficiently handling inventory, sales, and customer interaction using a centralized database system is critical to streamline decision making and evaluate real-time data for stock tracking, pricing optimization and customer experience.

Solution:  
The database includes different tables based on specific data categories, such as employee information, customer profiles, store locations, product description, inventory levels, supplier information, and order history. By connecting the data from these tables, it will provide a comprehensive overview of activities, enabling real-time data analysis to support strategic decision-making which will effectively manage inventory, sales, and facilitate customer interactions.

Requirements:

* Customer Information
  + Customer ID (PK)
  + Name
  + Age
  + Email
  + Phone Number
* Employee Information
  + Employee Number (PK)
  + Employee Type
  + Name
  + Address
  + Email
  + Phone Number
* Inventory Levels
  + Item Number (PK)
  + Quantity of Item
  + Store Aisle Located
* Item Descriptions
  + Item Number (PK)
  + Color
  + Specifications
  + Supplier ID (FK)
  + Supplier Information
* Purchase History
  + Order ID (PK)
  + Customer ID (FK)
  + Item Number (FK)
  + Store Location (FK)
  + Date of Purchase
  + Quantity of Purchased Item
  + Price of Each Purchased Item
  + Total Price
* Store Locations
  + Store ID (PK)
  + Address
  + Contact Information
* Supplier Information
  + Supplier ID (PK)
  + Name
  + Address
  + Email
  + Phone Number
  + Contact Person
* Orders
  + Order ID (PK)
  + Cart ID (FK)
  + Total Price
  + Payment Status
  + Shipping Details
* Daily Sales Summary
  + Date
  + Total Sales
  + Sales by Location
* Restock Orders
  + Restock Order ID (PK)
  + Item Number (FK)
  + Quantity Ordered
  + Expected Arrival Date
  + Status
* Inventory Transactions
  + Transaction ID (PK)
  + Item Number (FK)
  + Transaction Type (+/-)
  + Quantity Changed
  + Timestamp
* Shopping Cart
  + Cart ID (PK)
  + Customer ID (FK)
  + Session ID
  + Item Number (FK)
  + Quantity
  + Timestamp
* Ratings and Reviews (Products)
  + Rating ID (PK)
  + Customer ID (FK)
  + Item Number (FK)
  + Rating Value
  + Review Text
  + Date
* User Authentication
  + Username
  + Password
  + Last Login
  + Account Status
* Store Reviews
  + Store Review ID (PK)
  + Customer ID (FK)
  + Store ID (FK)
  + Rating Value
  + Review Text
  + Date
* Employee Performance
  + Employee Review ID (PK)
  + Employee Number (FK)
  + Reviewer ID (FK)
  + Rating Value
  + Feedback Text
  + Date

Data Reports

* Sales and Revenue Report
  + sales figures, revenue by item or location
* Inventory Status Report
  + inventory levels, restocking needs
* Customer Engagement Report
  + track customer visits by store (number of transactions, average spend, visit frequency, feedback), loyalty program
* Employee Performance Report
  + sales metrics, customer feedback