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CPT242 – H02

Vince's Vinyl Database

**Documentation for Vince's Vinyl Database Management System**

# Note 1

Date: August 27, 2023

**Major Topics for the Database**

1. Inventory Management

* Record Identification Number
* Type of Record (45 RPM, 33 1/3 RPM, 78 RPM)
* Artist Name
* Album Title
* Musical Genre
* Physical Condition
* Initial Purchase Price
* Recommended Selling Price
* Current Inventory Level

2. Purchase History

* Purchase Identification Number
* Associated Record Identification Number
* Vendor Type (Customer, Yard Sale, Discount Store)
* Vendor Specific Information
* Date of Purchase
* Acquisition Cost

3. Sales Tracking

* Sales Identification Number
* Related Record Identification Number
* Customer Identification Number
* Transaction Date
* Finalized Selling Price

4. Customer Management

* Customer Identification Number
* Full Name
* Email Address
* Contact Telephone Number
* Preferred Musical Genre and/or Artist
* Historical Purchase Records

5. Special Requests

* Special Request Identification Number
* Associated Customer Identification Number
* Request Specifics (Artist, Album, Genre)
* Request Initiation Date
* Status (Fulfilled, Unfulfilled)

6. Email Notifications

* Email List of Subscribers
* Announcements of New Inventory Arrivals
* Promotional Special Offers
* Customer Musical Preferences

**Draft Statement of Work**

Brief History:

Vince's Vinyl is a retail establishment specializing in both vintage and contemporary vinyl records. Owned and administered by Vince Roberts, the enterprise has achieved sustained success over multiple years. Recent upticks in consumer activity have rendered the existing manual inventory system increasingly untenable.

Scope:

This project encompasses the design and implementation of a database system tailored to facilitate Inventory Management, Purchase History, Sales Tracking, Customer Management, Special Requests, and Email Notifications.

Objectives:

1. To engineer a comprehensive system for managing inventory.
2. To systematically archive records pertaining to purchase transactions and their respective origins.
3. To monitor sales activity and correlate it with extant inventory and customer data.
4. To efficiently manage customer-related data, including special request functionalities.
5. To establish a curated email list aimed at customer-specific notifications.
6. To establish a foundational structure amenable to future digital expansions.

Preliminary Timeline:

* Week 1: Initial consultation and selection of technological solutions.
* Weeks 2-3: Design of the database schema.
* Weeks 4-5: Development of the database structure.
* Week 6: Importation of existing data.
* Weeks 7-8: Development of the user interface.
* Week 9: Preliminary system testing.
* Week 10: Implementation of system adjustments and improvements.
* Week 11: Secondary round of system testing.
* Weeks 12-13: Staff orientation and system handover.
* Week 14: Soft-launch and ongoing monitoring.
* Week 15: Final evaluation and project termination.

# Note 2

Date: September 3, 2023

1. Questions Arising from Vince's Existing Notebook Entries

* What formal criteria, if any, are employed to determine the physical condition of vinyl albums?
* Is vendor contact information systematically stored?
* Is the cost of acquisition documented consistently for each album?
* What existing methods are in place to track customer special requests?
* Is there a current system for documenting which albums are sold to which customers?
* How is the final selling price determined? Is it primarily experiential or are other market factors involved?
* Are inventory levels monitored through a particular method?

2. Stakeholder Identification in Vince's Record Store Operations

* Vince Roberts, Owner and Operator
* Employees, if applicable
* Customer Base
* Supply Vendors, including Yard Sales and Discount Stores
* Regulatory Authorities for Business Licenses and Compliance
* Subscribers to Email Notifications

3. Preparatory Interview Questions for Key Participants

**Questions for Vince Roberts:**

* Could you delineate the daily operational workflow of your store?
* What challenges do you encounter with your current manual record-keeping system?
* Are there any specific functionalities you wish to see in a new database system?
* Do you have aesthetic or operational preferences for the user interface?

**Questions for a Dual-role Customer (Seller and Buyer):**

* How would you evaluate the ease of your transaction experience when selling to Vince?
* Does Vince's Vinyl adequately cater to your musical interests?
* Do you have any suggestions for process improvements?

**Questions for a Predominantly Buying Customer:**

* What aspects of Vince's Vinyl attract you as a customer?
* Are there any customer-centric features, such as a special request system, that you'd like to see implemented?
* What is your preferred channel for receiving updates on new arrivals or special promotions.

4. Questionnaire for Vinyl Suppliers to Vince

1. How would you rate the ease of your selling experience with Vince's Vinyl on a scale from 1 to 10?
2. What elements of the current process do you find beneficial?
3. Are there aspects of the current process that you find cumbersome or challenging?
4. Would you appreciate a digital medium for monitoring the status of your transactions?
5. Are there additional features that would facilitate a smoother selling process for you.

5. Observations from Job Shadowing and Further Questions

**Identified Exceptions:**

* Conditional refusal to purchase albums based on their physical quality.
* Pricing negotiations occur during customer transactions, deviating from listed prices.
* Immediate evaluations and pricing decisions for albums are made based on Vince’s expert judgment.

**Additional Business Rules:**

* Vinyl albums must meet a pre-defined standard of quality to be considered for purchase.
* Selling prices are subject to change, especially in multi-item transactions.
* Vince accommodates special requests for specific albums, with notifications issued upon availability.

**Additional Questions Raised:**

* Is there a formal procedure for recording negotiated prices?
* What is the current method for managing and tracking special customer requests?
* How are exceptions like conditional purchases and price adjustments managed in the existing manual system?