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ITC 220

Steve Conger

SQL Server Requirements Assignment

**Vince’s Vinyl**

**Problem Statement:**

Vince’s Vinyl is a small shop that sells used vinyl records. Up until now, Vince, the owner, has kept track of his sales and purchases in a spiral notebook. He priced things based on what he thought they were worth, often though with only a vague memory of what he paid for them. He is generous with discounts and sometimes over generous with purchases. His friends, worried that he will not be able to continue to support his business in this manner, have convinced him to commission a database to better track his purchases, inventory and sales.

**Stakeholders:**

*Vincent Price – Owner of Vince’s Vinyl*

As a business owner, Vincent needs to keep track of the purchases, inventory, sales, and returns for the vinyl record business he owns. He needs a database that will collect, store, and report this information. It needs to be updatable, consistent, and have reporting capability. The data must be secure.

*Lee Majors CPA – Vince’s Accountant*

As Vince’s accountant, Lee needs visibility to inventory, sales, and purchase transactions in the form of reports. Lee uses this information to prepare Vince’s state (sales tax) and federal taxes.

*Employees -*

Vince’s employees need to be able to access basic information in order to perform their job. They need

a report that shows album requests from customers, that are now in stock, so that they can alert the customer. Employees also need to know what inventory is on hand, so they can help the customer find what they need.

*What is out of scope for this project?*

* The database will not include human resource information other than basic employee information such as, Name, Employee Id and phone number.
* The database will not store customer credit card numbers or expiry date information. This will be addressed by a third party payment system, such as PayPal.
* Front end is not in scope for this project, and will be addressed at a later date.

**Requirements**

Table of Customers

* Customer\_ID (PK)
* Names
* Emails
* Cellphone numbers
* Zip
* Agree of notification e-mail

Table of Vendors

* Vendor\_ID (PK)
* Product\_ID (from table of purchases)
* Names
* Emails
* Cellphone numbers
* Address
* Vendor types

Table of Requests

* Request\_ID (PK)
* Album\_ID (from Album table)
* Customer\_ID (from Customer table)
* Date
* Fulfilled or not

Table of Sales

* Sale ID (PK)
* Customer\_ID (from Customers table)
* Product\_ID (from Purchases table)
* Price (from Purchases table)
* Tax
* Total\_Amount
* Quantity
* Date
* Discount

Table of Purchases

* Product\_ID (PK)
* Name (from Album table)
* Amount
* Cost
* Available or not
* Rating
* Sale price (formula cost + percent markup - overwritable)

Table of Employees

* Employee\_ID (PK)
* Name
* Cellphone numbers
* Permissions

Table of Albums

* Album number (PK)
* Album name
* Artist
* Genre
* Date

**Reporting requirements :**

* Sales Report - Daily / Monthly / Quarterly / Annually
* Tax Report - Monthly / Annually
* Request Report - Daily
* Inventory Report - Daily
* Sales by employee
* Purchases Report - Daily / Monthly / Quarterly / Annually
* Requested albums available
* Customer lookup

**Business Rules:**

* All the albums are used and each is in a different condition, each album will have to inventoried as a separate item.
* Albums are rated by the quality of the vinyl and the quality of the cover. Ratings are: mint, excellent, good, fair and poor.
* The base price for an album is 150% over the price Vince paid for it. So if Vince paid $5.00 for an album, the price would be $12.50. Vince must be free to lower the price or, if the album is exceptionally desirable, raise it.
* Customers who buy 10 albums within a year’s time get a 25% discount.
* Return Policy : We accept return only 30 days after sale date and can return good or better condition.

**Security Requirements:**

* Employee access permission management
* Personal information encryption
* Build Firewall
* Back-up plan
* Decryption Permission Management
* DataBase Access Control System
* User access log management system