

# PERFUME DATABASE MANAGEMENT SYSTEM

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HTTP 5126 – Database Design & Development

Humber Polytechnic – North | Fall 2024

## **REAL-WORLD SCENARIO**

As a database manager hired by a retail perfume company to manage their database system, which tracks brands, products, fragrance notes, retail availability, sales, and related information. You will ensure seamless product updates and provide tools for inventory management, sales analysis, and marketing decisions.

# PROBLEMS & DB SOLUTIONS

## **Problem:**

### **Product Inventory Management**

- Maintain accurate product, brand, and retail data with efficient updates.
- Automate logging of inventory changes for traceability.

## **Problem:**

### **Fragrance and Sales Analysis:**

- Simplify access to fragrance profiles and sales trends for data driven decision making.

## **Solution:**

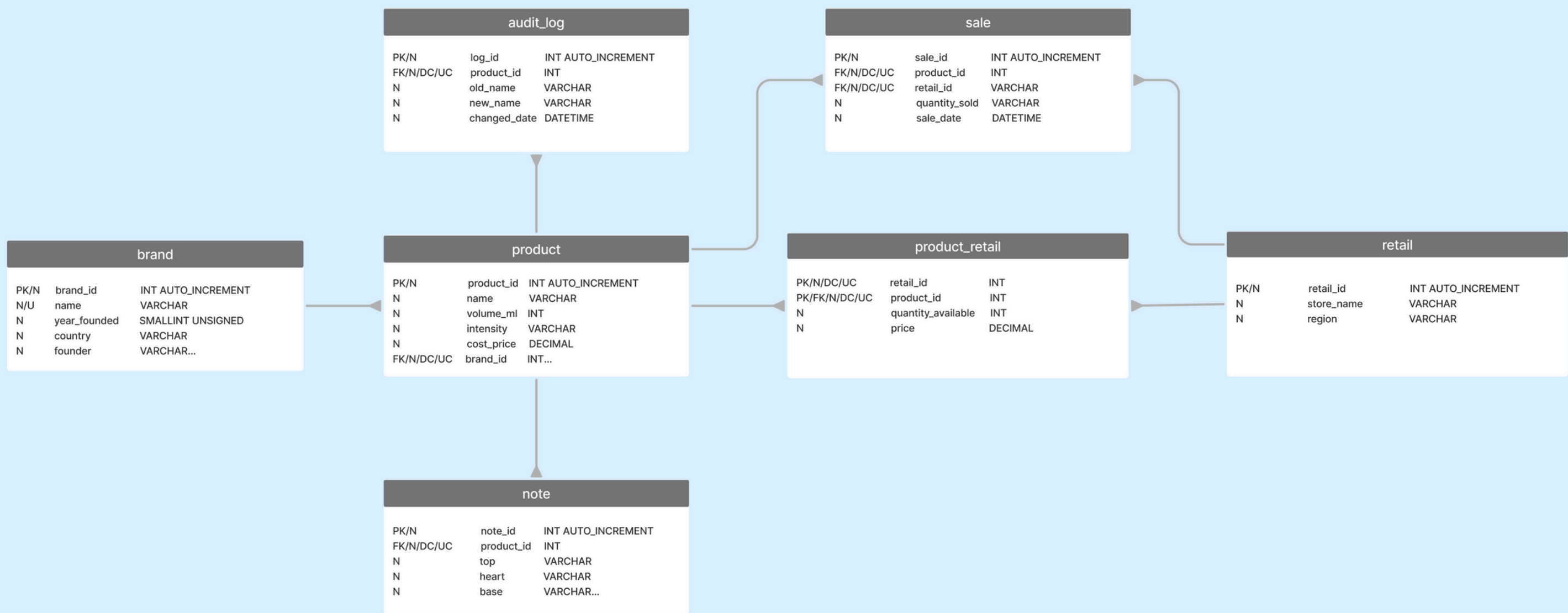
- Stored procedure for adding/updating products, brands, fragrance notes, and retail data.
- Triggers for logging product name changes in the audit\_log table.

## **Solution:**

- Views for simplified access to fragrance profiles and sales trends.
- Functions for calculating revenue and profitability.

# ENTITY RELATIONSHIP DIAGRAM (ERD)

ection 3







# KEY FEATURES IN THE DATABASE

- **Feature 1: Stored Procedure** (usp\_add\_product\_brand\_note\_retail)
- **Feature 2: Trigger** (trg\_product\_update)
- **Feature 3: View** (fragrance\_profile\_view)
- **Feature 4: Function** (fn\_get\_total\_profit)

# WIREFRAME



## ADD NEW PRODUCT



**PRODUCT**

Product Name:

Volume:  Cost Price:

Intensity:


**NOTE**

Top:


Heart:

Base:

➔



## ADD NEW PRODUCT



**BRAND**

Brand Name:

Year\_Founded:

Founder:

Country:

**RETAIL**

Store Name:

Region:

⬅

Submit

# WIREFRAME



## UPDATE SALES

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### PRODUCT

Product Name:

Sale Price:

Quantity Available:

Submit



The background is a dark navy blue. It features several concentric circles centered in the middle, creating a subtle ripple effect. Overlaid on these circles are large, stylized, overlapping geometric shapes in various shades of blue, ranging from a deep navy to a bright, vibrant blue. These shapes resemble stylized 'V' or 'W' characters or perhaps abstract mountain peaks. The overall composition is modern and dynamic.

**THANK  
YOU**