PERFUME DATABASE MANAGEMENT SYSTEM

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HTTP 5126 - Database Design & Development

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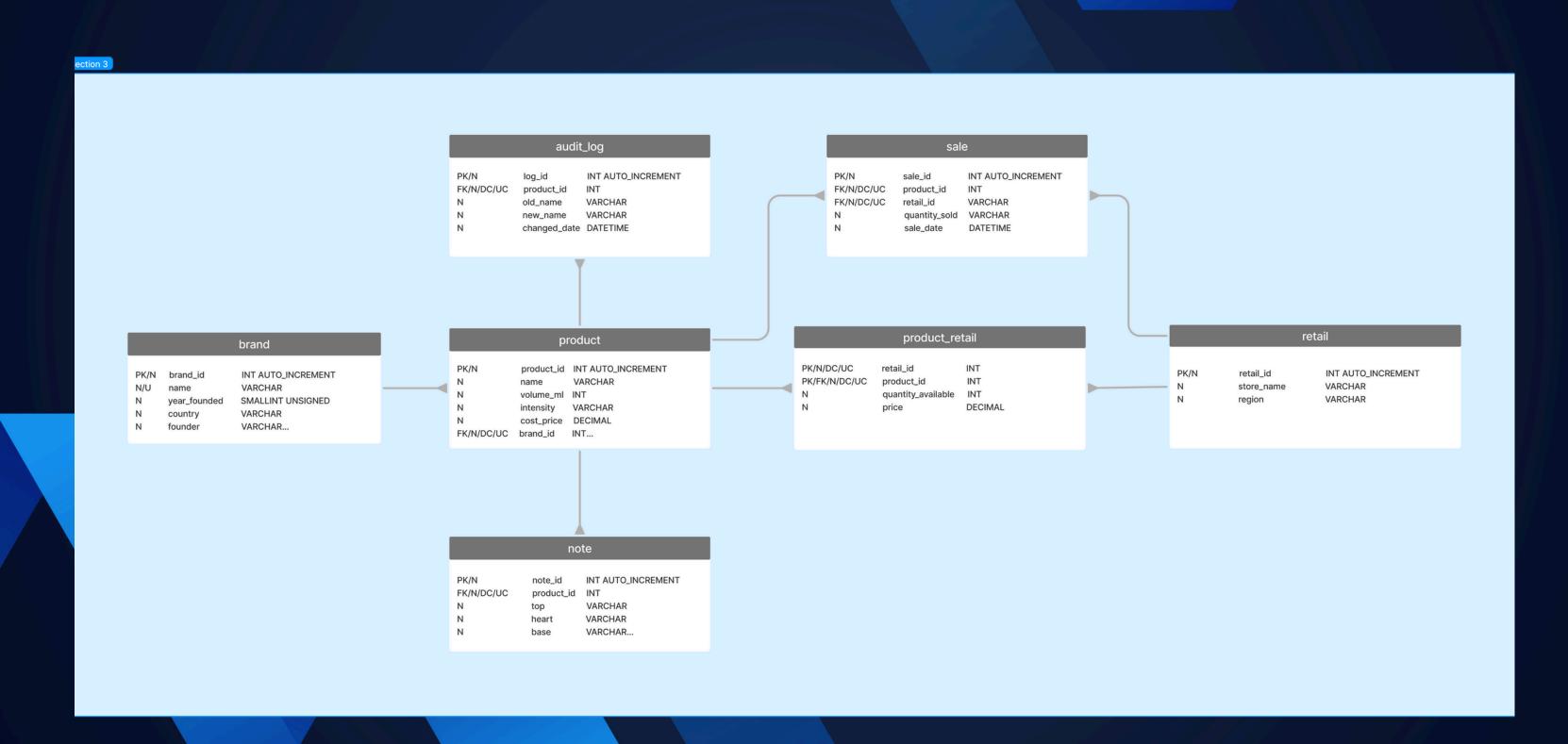
- Views for simplified access to fragrance profiles and sales trends.
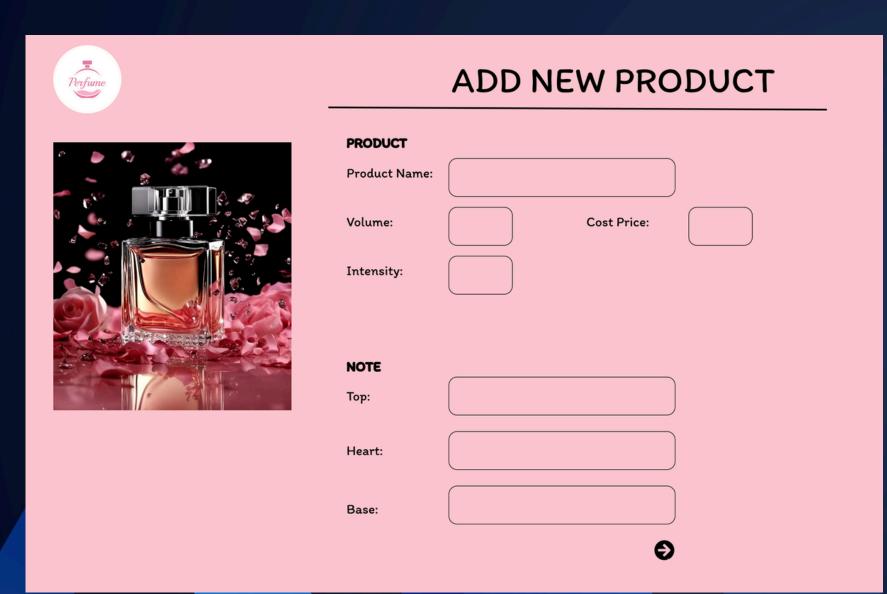- Functions for calculating revenue and profitability.

ENTITY RELATIONSHIP DIAGRAM (ERD)

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

Perfume

UPDATE SALES

PRODUCT

Product Name:

Sale Price:

Quantity Available:

Submit

THANK YOU