**Video Script: Demonstrating the Enhanced Value Measurement Database Application**

**Opening (0:00 - 0:20)**

Hi, I’m Donnie Minnick. In this short demo, I’ll walk you through the enhanced Value Measurement Database Application.

Built with Python and Tkinter, this tool offers a clean, user-friendly interface to manage transformation data efficiently. Let’s jump in.

In this video, I’ll highlight four new features.

**Modular Codebase (0:20 – 0:40)**

First, I extended the app with a modular architecture: key classes manage database integration, main app logic, and reusable helpers.

Each component is documented with detailed docstrings and supported by a comprehensive README to simplify onboarding and maintenance.

**UI Enhancements (0:40 – 1:10)**

Second, I upgraded the UI with an improved layout, clearer labels, and interactive widgets like date pickers, combo boxes, and checkboxes—improving both speed and accuracy of data entry.

**User Queries & SQL Tools (1:10 – 2:00)**

Third, a new User Queries tab lets users create, save and document custom SQL queries.

Each query is captured in the user\_query table with a title, description, purpose. The query string is captured as well so that the query can be executed from within the app.

Checkboxes enable users to categorize queries, and we’ll see how these are used in the Run Queries tab.

Query validation prevents users from storing query strings that might cause damage or data loss. For example, the app recognizes and stops use of risky keywords like DELETE, DROP and ALTER, generating warning messages.

**Running Queries & Exporting Results (2:00 - 2:30)**

Finally, from Run Queries, users select and execute saved custom queries.

Use the type selection to filter the list of available queries, then select a query to run.

Results appear instantly and can be exported as CSVs with the query title and current date for the file name—perfect for sharing data or enabling deeper analysis.

**CRUD & Live Data Refresh (2:30 - 2:50)**

All core functions from the previous demo remain—add, update, and delete records easily. Click Refresh anytime to sync with the latest data from the database.

**Closing (2:50 - 3:00)**

That wraps up our demo of the the enhanced Value Measurement Database App: an intuitive UI, robust architecture, and smarter data tools. Thanks for watching!