

INTEGRATION DOCUMENT

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1. Exporting Data from the SQL Database

To start, I exported the needed data from my SQL database tables into CSV files, which made it easy to import into Excel.

Steps:

- I. I launched MySQL Workbench and connected to my database.
- II. For each table (like Farmers, Products, Buyers), I executed a
 - a. `SELECT * FROM <table_name>;` query to get all the data.
- III. After that, I used MySQL Workbench's export feature to save the results as CSV files, naming them according to each table (for instance, `farmers.csv`, `products.csv`, `buyers.csv`).

2. Importing Data into Excel

With the CSV files in hand, I moved on to import them into Excel.

Steps:

- I. I opened Excel and created a new workbook.
- II. For each CSV file, I went to-
 - a. File > Open and picked the file, bringing the data into separate sheets.
- III. I double-checked to make sure the data was properly imported, ensuring all columns and rows were aligned correctly.

3. Ensuring Data Consistency

After getting the data into Excel, I made sure it was consistent and ready for analysis or any further processing.

Steps:

I. Checking for Errors:

I looked over the data for any glaring mistakes or inconsistencies, like missing values, incorrect data types, or misaligned columns.

II. Data Validation:

I utilized Excel's data validation features to ensure all entries fell within acceptable ranges. For example, I set rules to confirm that product prices were positive figures and that email addresses followed the correct format.

III. Handling Missing Data:

I identified any gaps or null values and took steps to address them by removing the problematic rows.

IV. Normalizing Data:

I made sure that similar data entries were standardized, which involved fixing any spelling mistakes or inconsistent naming conventions.

V. Cross-Referencing Data:

When necessary, I cross-checked data across the sheets (like confirming that each product in the 'Products' sheet had a valid 'farmer_id' that matched an entry in the 'Farmers' sheet).

4. Final Review and Clean-up.

In the end, I reviewed all the imported data together to ensure everything was accurate and consistent. I cleaned up any unnecessary data or empty rows and columns to keep the dataset organized.

5. Saving the Excel Workbook.

PITCH DECK:

<https://gamma.app/docs/Farmers-Market-Connecting-Farms-to-Consumers-9t64bgajpkrwgki>