

Integration Documentation: Tree Vibe SDG Project

This document outlines the steps for integrating and setting up the Trees Database SDG project, including setting up the database, connecting it to Excel for data analysis, and creating a dashboard.

1. SQL Database Setup

Follow these steps to set up the MySQL database:

Step 1: Create the database and tables.

Use the script:

```
CREATE DATABASE treesdgdatabase;
```

```
USE treesdgdatabase;
```

Step 2: Insert the sample data.

2. Excel Data Integration and Dashboard Setup

Step 1: Download the Excel workbook.

- Download the Excel file Dashboard.xlsx in this repository.

Step 2: Enable Power Pivot.

- In Excel, go to File > Options > Add-ins, and make sure Power Pivot is enabled.

Step 3: Import data from the MySQL database.

- Use the Data > Get Data > From MySQL Database option in Excel to import the tables from the MySQL database.

Step 4: Add relationships between the tables.

- In Power Pivot, go to Manage > Design > Create Relationship and link the tables based on their primary and foreign keys:

- Tree (TreeID) ↔ PlantingGuide (TreeID)
- Tree (TreeID) ↔ Climate (TreeID)
- Tree (TreeID) ↔ TreeSpecies (TreeID)
- User (UserID) ↔ UserTree (UserID)
- Tree (TreeID) ↔ UserTree (TreeID)

Step 5: View the dashboard.

- Navigate to the dashboard sheet in the Excel workbook to explore the visual insights on tree planting, species, climate suitability, and user activities.

3. Pitch Deck Presentation

- View the pitch deck on Gamma: [Gamma presentation](#)