UMD SPACE STATION UNDER ATTACK

Attention all students! The UMD Space Station is under attack. We are running out of fuel to keep up our defenses and it is up to YOU to save us. A new shipment of fuel is stuck behind our safety vault and the code has been scrambled in our inventory database. Help find our code and save us ☹

Step 1: Download XAMPP and the GitHub Repository

1. **Download XAMPP**:
    - Go to the official XAMPP website and download the appropriate version for your operating system.
    - Follow the installation steps to install XAMPP on your computer.
2. **Download the GitHub Repository**:
    - Visit the provided GitHub repository link https://github.com/aru24sin/Engineering-Week-2025-Scavenger-Race-CIS-Lab/tree/main/EW_2025_Scav_Race
    - Click on the green **Code** button and select **Download ZIP**.
    - Extract the ZIP file to a folder on your computer.

Step 2: Start the XAMPP Application and Set Up the Database

1. **Launch XAMPP**:
    - Open the **XAMPP Control Panel** and start the **Apache** and **MySQL** services by clicking the **Start** button next to each service.
2. **Open phpMyAdmin**:
    - Once the XAMPP services are running, open your web browser and type `http://localhost/phpmyadmin` in the address bar.
    - This will take you to **phpMyAdmin**, where you can manage your databases.
3. **Import the `space_schema.sql` File**:
    - In phpMyAdmin, in the home screen click the Import tab at the top.
    - Click on **Choose File** and navigate to the folder where you extracted the GitHub repo.
    - Find and select the `space_schema.sql` file and click **Go** to import the schema into the database.
4. **Import the `space_data.sql` File**:
    - Now that the schema is set up, you need to import the data.
    - Go to the SpaceInventory **Database** you just created
    - Click on the **Import** tab again.
    - Select the `space_data.sql` file from the GitHub repository and click **Go** to import the data.

Step 3: Using SQL Queries to Find the Secret Code

Now that the database is set up with the schema and data, you can run SQL queries to retrieve information from the database. Your goal is to find the **secret code** hidden in the data.

Example SQL Queries

Here are a few example queries to get you started. These queries will help you understand how to search through the database for relevant information.

1. **View all available tables**:
   - To see all the tables in your database, run the following query:

     ```
     SHOW TABLES;
     ```

2. **View the structure of a specific table**:
   - To view the columns of a table, such as `planets`, you can run:

     ```
     DESCRIBE planets;
     ```

3. **Find all records in a table**:
   - If you want to see all the data in the `planets` table, use:

     ```
     SELECT * FROM planets;
     ```

4. **Search for a specific record or condition**:
   - To search for a specific planet, you might use a query like:

     ```
     SELECT * FROM planets WHERE name = 'Earth';
     ```

5. **Count the number of entries in a table**:
   - If you're looking for how many entries are in the `spaceships` table:

     ```
     SELECT COUNT(*) FROM spaceships;
     ```

6. **Finding the secret code**:
   - Based on clues from the data, you may need to combine multiple queries or join tables. For example, if the secret code is hidden in a combination of planet names and spaceship types, you might run:

     ```
     SELECT planets.name, spaceships.type
     FROM planets
     JOIN spaceships ON planets.id = spaceships.planet_id;
     ```

Step 4: Locate the Secret Code

The secret code is likely hidden in a specific table or the result of a query. As you explore the database with different queries, pay attention to any unusual patterns or strings in the data. The code may be in:

- One of our modules contains the space stations power distribution to the door, what is the last word?
- The vault requires our Supply Deliveries items that were shipped with 16 items total, what is the common word in all the descriptions?
- Quick! The vault needs all the Inventory items with exactly 5 in our current stock. What is the common word among all the item descriptions?

Once you find the secret code, note it down for the next stage of the scavenger race!