Python_Activity17

Database Design and SQL Query Challenge 🗄️

📌 Objective:

This activity helps trainees understand **databases, SQL queries, and data management** by designing a database and writing queries.

Activity 1: Build Your Own Database (Group Activity) 🎯

✅ Instructions:

1. **Choose a Business or Organization**
   - Each group selects one of the following and builds a database for it:
     - 📚 **Library System** (Track books, members, and loans)
     - 🏥 **Hospital Database** (Store patient, doctor, and treatment records)
     - 🏪 **Retail Store Inventory** (Manage products, suppliers, and stock levels)
     - 🎓 **School Management System** (Track students, courses, and teachers)
     - 🍽️ **Restaurant Ordering System** (Manage customers, orders, and menu items)

2. **Define Your Database Structure**
   - Create **2-3 related tables** for the business.
   - Assign **Primary Keys (PK)** and **Foreign Keys (FK)** to connect tables.

3. **Write SQL Queries**
   - **Create tables** using `CREATE TABLE`.
   - **Insert sample data** using `INSERT INTO`.
   - **Retrieve data** using `SELECT`.
   - **Update records** using `UPDATE`.
   - **Delete records** using `DELETE`.

4. **Present Your Work**
   - Each group **explains their database structure** and **demonstrates sample queries**.

Note:

- *Give me your best output*

- *Add what you think is needed*