Develop a logical data model based on the following requirements Part 2: (12/07/24) Olga Escoto Balas

Translate the logical data model for the Oracle Enterprise DBMS. (12/07/24)

a. **Develop SQL code to create the entire database schema, reflecting the constraints identified in previous steps.**
   Please see the embedded SQL worksheet **Project Part_3.py** in GitHub.

b. **Create at least 5 tuples for each relation in your database.**
   Please see the embedded SQL worksheet **Project Part_3.py** in GitHub.

c. **Develop the 5 SQL queries that correspond to 2c using embedded SQL.**

c. Validate the logical model against 5 user transactions. (Note: These will be then implemented in 3c).

So since these will be implemented in 3C, from a validation perspective if 5 user transactions were to be implemented, lets see how the tables could handle it:

- Add a new clinic: adding another row in the Clinic table with clinicNo & related fields in that table being populated.
- Register a new pet owner and their pet: using Owner and Pet tables with clinicNo as a foreign key with related information.
- Assign a staff member to manage a clinic: Updates clinicNo in the Staff table. Potentially, update the salary as well and also the position.
- Record an examination for a pet: Requires Examination linked to Pet and Staff. Pet can be linked to Owner and clinic.
- Retrieve all examinations for a specific pet: Run a query where the primary key is used in the Examination table joined with Pet table. This will work.

Based on the walk through, inserting 5 user transitions will not create an issue for any of the tables & the relationships between the tables.

   Please see the embedded SQL worksheet **Part_3 C.py** in GitHub.

d. **Upload all the code and documentation to GitHub.**

Please see the GitHub: https://github.com/oxe66/Database-Systems-for-Data-Science.git