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DSC 623

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**Project “Pawsome Pets” – Part 3**

Link to GitHub Repository: <https://github.com/nickgammal/DSC623_Final_Project_NickGammal>

1. Develop SQL code to create the entire database schema, reflecting constraints from previous steps.

I began by loading SQLite and Pandas into a jupyter notebook, then creating a database, a connection to that database, and a cursor for that connection.

Next, I wrote a series of CREATE TABLE statements, using NOT NULL and UNIQUE constraints in attribute definitions as dictated by the logical model from part 2. I also added primary and foreign key constraints in each table definition as well as constraints to the characters and lengths allowed in phone number and id variables.

Here are the empty tables:

A screenshot of a computer

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1. Create at least 5 tuples for each relation in your database.

For this step, I pulled ideas from a mix of family and friends, star trek, harry potter, history, and a bit of imagination. I started by creating 5 tuples for each table, then added extra tuples as needed to make sure my queries for part c were not empty.

Here are the filled tables:

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

This step is self-explanatory, but it is important to note that I used pandas to write a “show” function that displays the result of the most recent cursor execution as a data frame.

Here are the queries:

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