Nursing Web App - Database Display Test

**Objective:** To demonstrate that the web app is able to dynamically repopulate table data pulled from the backend database after the database has been updated.

Before starting, the database has been populated with data from the Test Data.xlsx file.

This is the query result from the database for the fields that are displayed on the faculty list.

A picture containing text

Description automatically generated

This is how the data appears on the website.

Graphical user interface, application

Description automatically generated

# Test 1: Inserting Row

This test demonstrates that the webpage will reflect a change in the database after an insertion into the Faculty table.

We execute the following query to insert a new row into the Faculty table:

INSERT INTO faculty

VALUES (11, "Layton", "Hershel", "1986-03-31", "hlayton@otterbein.edu", "gentlemanpuzzler@hotmail.com", "A20041918", "2013-05-15", 0, NULL, 3, 2022, "2022-01-19", "Goes off on adventures often.");

This new row is then reflected in the database.

Text

Description automatically generated

Upon refresh, the website now displays this information as well:

Graphical user interface, application

Description automatically generated

Since the new information is reflected on the webpage, the test has passed.

# Test 2: Deleting Row

This test demonstrates that the webpage will reflect a change in the database after a row has been removed from the Faculty table.

We execute the following query to delete Martha Rogers’ row from the Faculty table:

DELETE FROM faculty

WHERE last\_name = "Rogers";

See here that a query of the Faculty table reflects this deletion:

A picture containing text

Description automatically generated

Upon refresh, the website also no longer displays Martha Rogers’ name and information.

Graphical user interface, application

Description automatically generated

Since the expected result was received, the test has passed.

# Test 3: Altering Row

This test demonstrates that the webpage will also reflect altered rows in the Faculty table. Let’s say that Professor Layton has gotten married, and has chosen to take his wife’s last name.

We execute this query to alter the corresponding row in the database:

UPDATE faculty

SET last\_name = "Foley"

WHERE ID = 11;

The change is now reflected in the database:

Text

Description automatically generated with low confidence

Upon refresh, the webpage now displays this new last name.

Graphical user interface, application

Description automatically generated

Since the webpage properly reflects the changes that have occurred to the table, the test has passed.