CS 499 Milestone 4 Document 2

Python Database Creation /Manipulation

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To demonstrate using Python programs to create and manipulate a MySQL database, several .py files were created. The first was a program to show the databases currently available. After running the program the following result was shown:

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Description automatically generated

The program shows all the databases available including the bookdb created earlier. In all following Python programs, the instruction to use the bookdb was included. Next was to show the tables in the bookdb.

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Currently only the books table created earlier is shown. The next step was to create a new table called reviews using a Python program. The included program created a table with an integer data type auto incrementing, primary key called reviewID, an integer data type called titleID, a VARCHAR data type called review and another integer data type called stars for a user to assign 1 to 5 stars to a title. The program included a SHOW TABLES command to show the creation of the table.

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The next step was to use a Python program to perform a query to find out which titles in books indicated there was a review. Using the SELECT command and FROM to specify which table and WHERE to indicate to return results with a Y in the reviews column the following was returned:

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Description automatically generated

After looking at the results, it was decided that the title The Fever did not actually have a review so the books table needed to be updated. Using a Python program and the UPDATE command the title with id 3 was updated to change the value in reviews from Y to N. And the previous program to show books with reviews was run again to reflect the change.

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Now that the titles with reviews was known, data needed to be inserted. A program was written using a variable to store the values to be inserted. The SELECT \* FROM command was added to show the data inserted.

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