

Building a Note-Dictating Module

It is okay for a developer to look at the data stored in the database by accessing the SQLite3 data via the command prompt. However, it would not be convenient for the user to have to revisit the note data in this way. It would be better if Melissa could dictate previously saved notes to you. Let's build a module for retrieving old notes.

Create a new function named `show_all_notes()` in the `notes.py` file, and type the following code in it:

```
def show_all_notes():
    conn = sqlite3.connect('memory.db')
    tts('Your notes are as follows:')

    cursor = conn.execute("SELECT notes FROM notes")

    for row in cursor:
        tts(row[0])

    conn.close()
```

The first line in the `show_all_notes()` function establishes the connection to your database. You then give the message that the notes are being dictated. You execute the same SQL statement that you entered in the terminal earlier to receive the data, iterate through the records to select the notes, and pass them to the `tts()` function. Finally, you close the connection to the database.

Add the appropriate code snippet to `brain.py`:

```
elif check_message(['all', 'notes']) or check_message(['notes']):
    notes.show_all_notes()
```

Now commands such as “Show me all the notes!” or “Notes” will cause Melissa to read all the notes to you. You use `or` to ensure that `notes.show_all_notes()` is called if the user's command contains both the *all* and *notes* keywords (`check_message()` returns True only if both *all* and *notes* are present) and even if it contains just the *notes* keyword.

Exercises

Here are some features for you to implement in the note-taking application to increase its usefulness. First, it would be great if a command like “Show today's notes!” would display the notes you saved today. This would help you easily review all the notes you saved at the end of the day.

Also, it would make sense to have a command such as “Delete all notes!” or “Delete today's notes!” This would help you prune unneeded notes from the database so that Melissa does not dictate notes you've already taken care of.