

Introduction to SWE I

1 Merge Conflict Resolution

- Clone the repo ([link](#)) and navigate to `week-3`.
- Create a feature branch and update `hello.py` with your own greeting.
- Commit your changes.
- Switch back to `main` and make a different change to `hello.py`. Commit that.
- Merge the feature branch into `main` and resolve the merge conflict by keeping both greetings (one per line).
- Run the file to confirm both print statements appear.

2 Reverting a Commit

- On `main`, create a temporary file, add text inside it, and commit it.
- Use `git log` to identify the commit hash.
- Revert the commit (do not reset).
- Verify in the log that the revert commit shows up.

3 SQL + Python

- Create a SQLite database file called `students.db`.
- Write SQL that:
 - Creates a `students` table with columns (`id`, `name`, `grade`)
 - Inserts at least three rows of data
 - Selects all students with `grade >= 90`
- Write a Python script `query.py` that connects to the database, runs the queries, and prints the results. Run the script to check your output.

What to Submit

Create a folder with the following and then submit as a zip file:

- The Git commands you used in Part 1 and Part 2 (copy/paste from your terminal).
- The resolved version of `hello.py`.
- Your `query.py` file and the output it produces when you run it.

For submitting the git commands and the output of `query.py`, add all your answers in a text file with clear distinctions for each question.

Contributors

- Anika Sikka