Goals:

Practice UPDATE
Practice DELETE
3 table Joins
Having Clause

1. Assigned Reading and research

Read about Delete and Having

https://dev.mysgl.com/doc/refman/8.0/en/delete.html

https://stackoverflow.com/questions/16155937/mysql-having-vs-where

• Optional: If you wish to *practice* delete and update statements without actually changing the data, read about Transactions:

https://dev.mysgl.com/doc/refman/8.0/en/commit.html

2. Create one query with a GROUP BY and a HAVING clause to return *only* the records of data that answers this question:

Question: Which students have signed up for the same classes more than once?

- Hints and requirements:
 - Three tables are needed.
 - Subselects are not allowed for this query.
 - o Include Student.FirstName in the result set.
 - o Include Class. Code in the result set.
 - Include the number of times the student signed up.
 - o Include first and last ClassStudent.Signupdate
 - (table aliases are acceptable)

Deliverable: send your code and your result set.

3. Create a procedure to Delete the ClassStudent record for a given Class.Code and Student.FirstName (values will be provided as parameters.)

- The class and firstname parameters will be varchars that match the table types.
- Parameter names shall not have the same name as the table columns.
- You may use JOINs or DECLARE variables to update the correct record.
- The procedure run the procedure using the following instruction:
- The procedure name must match this test.

```
Call DeleteClassStudent( 'COMM113', 'Hope');
```

Deliverable 2: send your code.

4. Deliverable 3: Discuss what potential issues will arise with the DELETE procedure *as it is defined*. (Do not include discussion regarding difficulty with the code, only the inherent issues based on the procedure definition itself.) Why does that issue not *appear* to be a problem with the data you have in the development database?

5. Create and run an UPDATE statement:

- Set all birthdates to exactly 18 years ago from "today", <u>IF</u> the Birthdate has StudentID = 2 OR if the FirstName has an 'o' or an 'e' in the name.
- Use a date function with an interval and the NOW() function to assign the value.

- o Hard-coding yesterday's date does not earn full credit.
- Run the UPDATE instruction.

Deliverable 4: send your code.

6. Run this code: Call GetData();

Deliverable 5: send all three of your result sets.