Assignment Checklist

- Create a database with at least 3 tables

  DB: University Course Management

  Tables: Students, Courses, Enrollments

- Link tables using primary & foreign keys

  Student ID = primary key in Students but foreign in enrollments
  Course ID = primary key in Courses but foreign in enrollments

- 3 different data types across the 3 tables <u>at least</u>
  Data types that have been used:
  - VARCHAR
  - Boolean
  - Date
  - Integer

- Use at least 2 constraints not including primary & foreign key
  Used
  - Check   - Not Null
  - default

Assignment Checklist

- Use at least 3 queries to insert data
  - added data to all 3 tables

- Insert at least 8 rows of data in every table
  Students has 15
  Courses has 32
  Enrollments has 42

- Use at least 5 queries to remove data
  Queries asked:
  → & What Degree are they doing?
  → Which students are active? (currently at University)
  → Which courses run during semester 1?
  → What courses have been completed?
  → Are there any student registered as inactive with an end of Enrollment date in the future?
  → Are there any students that do not appear in the Enrollments table?
  → List of 2025 graduation cohort, names capitalised
  → How many Credits is each student taking?
  → Who are our Alumni & How many Days since they left?
  → How many students can we expect at the uni this year?

Assignment Checklist

- Use at least 1 query to delete data?
  Deleted Student under StudentID = 015., line 174

- Use at least 2 aggregate functions
  Used SUM, line 184
  Used COUNT, line 204

- Use at least two joins
  LEFT OUTER, Line 171
  default JOIN (inner), line 186, 187

- Use at least 2 additional built-in functions
  Used UPPER, line 178
  Used DATEDIFF, line 196
  Used current_date(), lines 200, 196 + more

- Use data sorting for majority of queries
- Mostly used ORDER BY on   6/9.
  ⤷ didn't on others because I was inserting a data
  record & correcting/deleting it   or there's just 1 data
  point returned.

- Create a stored procedure
  Created on line 208.
  Used on lines 224 & 225
- Normalised   done at end :·