

Assignment 8: Complicated queries and functions

1. Complex queries
 - a. Write a SELECT query that joins two tables of your choice from the ABIC database
 - b. Write a SELECT query that joins three tables of your choice from the ABIC database
 - c. Write a SELECT query that joins four tables of your choice from the ABIC database
2. Subqueries
 - a. Write a subquery that nests two SELECT queries with a WHERE clause
3. Functions
 - a. Write a SELECT query that uses a numeric function
 - b. Write a SELECT query that uses a string function
 - c. Write a SELECT query that calculates age at admission for female patients in the ABIC database
4. Summary queries with aggregate functions
 - a. Add height, weight, and BMI fields to your patient table for each patient (Hint: use ALTER TABLE)
 - b. Add height and weight data in inches and pounds, respectively. Leave the BMI field blank
 - c. Create a query that calculates the BMI for each patient and adds the value to the record. Use this formula: $(\text{Weight} \times 703) / \text{Height}^2$ (Hint: use the UPDATE and SET commands in a query!)
 - d. Create a query that calculates the mean BMI across all patients.
 - e. Create a query that calculates the mean, maximum, and minimum BMI separately for males and females.
5. Submit your .sql code and the results of your queries as one document to Assignment 8 on Canvas as: **yourlastname_BMIN502_19_8.pdf**