How to break down a SQL Problem

- 1. Look at the question and identify all the tables that are involved in the question.
 - a. Jot these down in your notes first
 - b. Prep the FROM/JOIN clauses after
- 2. Identify the columns (fields) that you need to either a) display or b) use to create a display
 - a. Start building the SELECT clause
 - b. Start building a subquery FROM/SELECT clauses
- 3. Build the first draft of the guery
 - a. SAVE!
- 4. Do you need to limit the results? Prep the WHERE clause!
 - a. Equality: field name = that
 - b. Relational: field_two < that, field > that
 - c. Ranged: other field BETWEEN a AND b
 - d. Specified: field IN (B, I, P, O, C, L, G, B, T, Q, I, A)
- 5. Look for the aggregate function terms (sum/min/max/count) and Identify what will be coalesced with the GROUP BY clause
 - a. Remember the AS for the proper naming conventions
- 6. Identify the paths used to connect the tables
 - a. Primary to Foreign key
 - b. Multiple PK parts (Composite PK) means compound ON clause (AND each paths)
 - c. These go to the ON clause(s)
- 7. Update the guery
 - a. SAVE!
- 8. Check the results
 - a. Does it match the expected results?
 - b. What is different?
 - c. Ask questions to yourself
- 9. Add details and update query
 - a. Do you need an ORDER BY clause?
 - b. Adjust column order
- 10. Repeat as needed!