1. Discuss your solutions to the document-oriented tick: Tick 2
   Do you understand the queries and what they are doing? Please include your answer
to every question with a short description of the query and your solution.

2. On our movie database, will the SQL query
   
   ```sql
   select person_id, movie_id, position from credits
   where not((not (position is null)) or position = 17);
   ```

   return the same results as the query
   
   ```sql
   select person_id, movie_id, position from credits
   where position <> 17;
   ```

   Explain your answer.

3. Suppose that \(a\) and \(b\) are 3-valued expressions in SQL (true, false, or null). Can the
   expression \((a \land b) \text{ is null}\) be rewritten as an equivalent boolean combination of
   \(a, b, a \text{ is null}, \text{ and } b \text{ is null}\)?

4. In boolean logic, the expression \(! (a \land b)\) always has the same value as \(! a \lor \! b\). Is that true in 3-valued logic?

   What about the expression \(! (a \lor b)\) and the expression \(! a \land \! b\)?

   Is the expression \(a \lor \! a\) always true in 3-valued logic? If not, can you extend
   this axiom to make it always true?