

WEEK 8 PROJECT ASSIGNMENT

DESCRIPTION:

You will be modifying the database to add one or more tables to enable the following:

- Create a way to store the needs of each department. For example, this will store how many RNs are needed on October 8, 3-11 shift in the Emergency Room.
- Integrate the needed table design into your data model, make sure it is in 3rd normal form, and show an ER diagram and table descriptions for all of the tables in your design.
- Next, specify a pseudocode description for the following processes. You must include actual working SQL statements, but the procedural part can be in PHP, C++, Java, Python, etc. or just in something that looks program-ish. Eventually you will be implementing this in PHP so keep that in mind.
 1. SCHEDULE SOMEONE: In order to schedule someone, you will need to know that there is a person of that type needed in that department at that date and shift, and that the person is not scheduled somewhere else already, that the person is not already scheduled for that day, and that the person would not then be scheduled for two shifts in a row. Be sure to update the tables to reduce the number of people still needed for that dept/day/shift/type.
 2. UNSCHEDULE SOMEONE: Remove someone from a particular dept/day/shift and be sure to update the data to represent the modified needs.

WHAT TO SUBMIT:

- An ER diagram showing the data model in 3rd normal form and taking into account all of the elements so far included in the assignments and also the additions specified above.
- An executed "show tables" statement (including the results)
- An executed "describe <tablename>" statement (including results) for each/all of your tables.
- Your pseudocode for SCHEDULE SOMEONE and UNSCHEDULE SOMEONE as described above, including fully operations SQL statements.