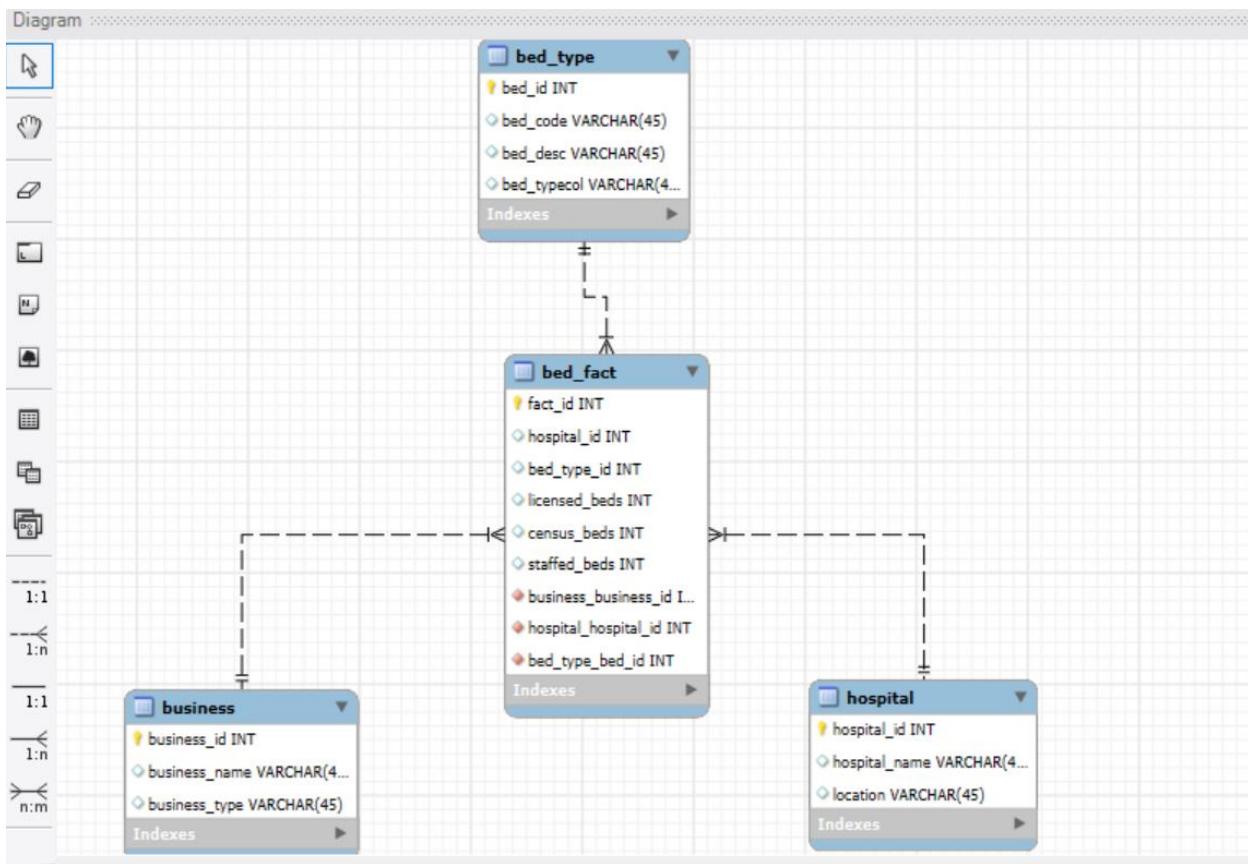


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ALY 6030

Module 2 Assignment:
Hospital Nursing
Intervention Pilot Program

- 1. Identify the dimensions from each dimension table:** (See SQL Code)
- 2. Identify the Facts variables from the single Fact Table:** (See SQL Code)
- 3. Sketch out a Star Schema using MySQL Workbench:**



4a. Analysis for Leadership: (See SQL Code)

4b. Interpretation of Findings

The hospitals that are featured in more than one list (total licensed beds, total census beds, and total staffed beds) are Vidant Medical Center, Rady Children's Hospital and Health Center, University of Maryland Medical Center, and Phoenix Children's Hospital. Their repeated inclusion across various bed capacity metrics demonstrates their operational significance within the hospital systems and scale. The Phoenix Children's Hospital leads among the top 10 highest total licensed beds with 247 beds overall, while Vidant Medical Center also stands out with 203 total staffed beds as well as consistent representation across all three lists. These characteristics among the top hospitals showcase their critical roles within their regions for the inpatient care they provide.

The Vidant Medical Center is one of the top choices for the pilot programs due to its steady and consistent capacity across all the measured metrics that includes licensed, census, and staffed beds. The Rady Children's Hospital and Health Center is also a strong contender, consistently appearing in all three lists and demonstrating substantial capacity with its licensed and staffed beds. These hospitals are ideal for pilot initiatives because of their reliability, scale, and ability to handle large operations effectively for the long-term.

5a. Drill down investigation

Based on the investigation of census Beds, licensed Beds, and staffed beds in the three tables, several crucial insights have been identified for leadership consideration. From the licensed beds, UC Health University Hospital ranks the highest with 162 beds, followed by MCGHealth, Inc. with 139 beds total. In terms of the census beds, University of Minnesota Medical Center Fairview is at the top with 93 beds, followed by UC Health University Hospital at 82 beds. And with the staffed beds table, Sunrise Hospital and Medical Center, LLC holds the top position with 113 beds while UC Health University Hospital are almost even with them at 112 beds.

Leadership should focus on the hospitals with high capacity and consistent performance across all the categories. The UC Health University Hospital stands out as a top candidate for the pilot program from its balance of high bed volumes across licensed, staffed, and census categories. The Sunrise Hospital and Medical Center, LLC and University of Minnesota Medical Center Fairview are also noteworthy because of their organizational effectiveness and patient demand, respectively. The efficiency varies among these hospitals with Sunrise Hospital and Medical Center, LLC showing a strong staffed-to-census bed ratio, indicating potential leadership in operational excellence. In contrast, University of Minnesota Medical Center

Fairview has the highest census bed volume, suggesting that a need for potential additional support would help meet patient demand effectively.

5b. Final recommendation

Based on the analyses conducted in the previous steps, I recommend that the UC Health University Hospital and Sunrise Hospital and Medical Center, LLC are the best candidates for the pilot intervention program. The UC Health University Hospital consistently ranks highly across all categories which includes licensed, census, and staffed beds. It generates a well-rounded capacity to meet patient demand when it can be high and resources can be strained. Its strong performance in all areas makes it a suitable candidate for the pilot program, ensuring the intervention will be tested across a high-performing and well-resourced facility.

The Sunrise Hospital and Medical Center, LLC leads in staffed beds and ranks highly in both licensed and census beds, indicating that they stand out for their operational strengths and qualities. Its ability to effectively manage a high number of staffed beds suggests they efficiently utilize resources, making it a promising site for piloting the intervention. Both hospitals' strengths from these three data tables make them well-suited to drive meaningful insights and results for the program.