

Dear Database team,

Hope you are doing well. The rapid spread of Covid-19 brought huge burdens on our health care system, and we are trying to investigate some hospital data to have a better understanding about hospital services.

Please do some research and build a database about hospital ratings and create tables to answer questions below:

Here are my questions:

1. What are the full addresses of the top5 hospitals in MI?
2. List the hospitals in Michigan whose criteria comparisons are all above or the same as the national average.
3. For each overall rating group, how likely does a hospital have the 7 criteria all above or the same as the national average?
4. Which state has most hospitals whose overall rating is higher than the average overall ratings?
5. What's the criteria that comprises most hospitals above national average rating?
6. Is it generally true that the overall ratings of hospitals who have both emergency service and efficient use of EHR is higher than those who don't have?
7. How many missing values of each criteria are there?
8. Which type of ownership of hospitals has the highest overall rating?
9. How likely is a hospital which has above-national-average Patient experience also has above-national-average Effectiveness of care?
10. Are hospitals with Emergency Services generally more likely to have Mortality national comparison ratings better than the national average?

Please provide the diagram of the design of the database as well as the documentation of all the tables. It would be better to include all queries you run so I can have reference.

Take care and I look forward to hearing from you.

Best,
Management team