**Prompts:**

1.

a. What industry did you decide to create a database for?

Mental Health

b. What are your motivations for choosing this industry?

Many do not have access to mental health resources due to lack of finances. So many do not get treated.

c. What problem did you attempt to solve and why?

Our code will calculate how much aid is needed per person to gain access to mental health treatment based on their income.

2.

a. Did you succeed in creating this database?

Yes

b. Did the design do what it was supposed to do?

Yes

c. What are some problems you ran into while trying to design the database (like too many features/properties to include)?

The database we used was based off of 20 million people - our solution was to bring it down to a million as stated under the Affordable Care Act. We also ran into the issue of citizenship as those who do not have citizenship often have a harder time getting insurance and thus have to pay out of pocket.

d. Was there any difficulty in writing the code to create the database?

Mental health is very complicated as some illnesses require different type of treatments and multiple doctors - so a team of medical professionals is needed to gain the best access to care. So we separated doctor and treatment to make things easier and branched off different types of attributes of the doctor and different types of mental treatments

3. Why did you choose these particular data points (like properties/objects)? What do those features bring to the project?

Personal info is an identifier to the person, doctor’s credentials and education is required to ensure the person is seeing the right kind of doctor, treatment had its own category as it ranges from medication to therapy and is different for each type of mental illness. Instead of listing all types of mental illness - we actually focused specifically on the health of the patient and if that could be translated to having a possible mental illness.

4.

a. What were some difficulties you faced while trying to create the queries that were supposed to solve your problems?

Future proofing the data was a bit difficult - see things like income change yearly, citizenship can also change, even mental illness treatment can change from medication to therapy - so finding a way to ensure things could be updated without running the coding was essential.

b. Were you successful in solving the problems?

Yes we were - according to our code we should be able to dictate the following: Calculate the income of the people accessing the mental health industry (income - the cost of the resources they need) and Calculate how much to give to each person based on their need

What would you change to try to solve the problem if you didn’t solve it (i.e. why did the project fail)?

The project might be difficult for those who give out free mental care assistance. So if it doesnt cost money - the code would really only provide the doctor and treatment and not the cost since that would not be required. However seeing that millions of Americans cannot afford Mental Health resources the code is adaptable. We would have changed or possibly removed Americans who have access to free mental health resources and kept everything else the same. Although that might be difficult to sort through.

c. If you did solve the problem, what other problems could you solve if you modify your database?

If we modify our database we could essentially apply this code to other countries that offer mental resources and expand from just the United State’s population and go into worldly issues. We also focused on those under 21 as that is the demographic that struggles with mental illness the most but that again can also be expanded.

d. Did you futureproof your database? Is there more it can do if this problem was solved?

Yes we were able to futureproof our data. If an income changes the financial support would also change keeping the database updated as possible as things change in the foreseeable future.

5. If you had unlimited time and resources, what would you do differently? What project would you choose if you didn’t worry about being able to sell it after the fact?

I think I would have branched from just mental health to all types of health - including emotional, sexual, and physical. The insurance industry in this country is a scam for lack of better words, and does not provide enough funds for any of these types of health. So expanding from just mental health - most likely we would be sued or shutdown because support is not provided by the healthcare industry in terms of finances.

6. What if anything, did the project teach you? Do you have any suggestions to improve this project and what issues did you face? Did you enjoy this project?

I thoroughly enjoyed this project - it would be really cool putting it into action, and actually having a company test out the code too see if it successfully applies. It’s a bit of a stretch and most likely won’t happen but to see it in action would be incredible. First and foremost I was taught about how horribly the US healthcare industry does not provide enough funds for people’s healths. We should honestly look to Canada as they provide free healthcare and this topic is not an issue there. Some of the issues again were the demographic we wanted to pick from - everyone struggles with mental health - but we wanted to focus on those who were young adults to little children because they’re a priority. But fortunately we figured it out and were overall successful in our experiment.