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<https://docs.google.com/presentation/d/1MU-jNhh_W0K5f3bXLxN7UUbx61u5ySfJ/edit#slide=id.p2>

Topic: mental health

Problem to solve:

Find people with financial issues that has trouble accessing to the mental health industry, so they can afford resources

How to solve the problem:

* Select current year
* Select those who are living in the US
* Calculate the income of the people accessing the mental health industry (income - the cost of the resources they need)
* Order the list of people by that calculation from lowest to highest
* Select the top 20 million(?) people and distribute financial support based on that calculation
* Calculate how much to give to each person based on their need

<<should we base it on this site? https://healthcareinsider.com/aca-subsidy-calculator-186869>>

We need to account for:

1. What people who will use the database(you) will assume
   1. This database contains (mostly) low income earners and their ability to access healthcare?
2. What sort of scripts people will use to extrapolate information
3. How easy it’ll be to understand the data
4. How complicated the data will be
5. A way to futureproof the database

Your database must do a few things:

1. Incorporate the concepts of objects, properties, and events

2. Properly define relationships between different objects

3. Solve a problem

4. Be a practical design (meaning that it is something a company would want to buy from you)

Overall:

choose a problem, create a design and diagram, write the code for the tables, attempt to write code that solves the problem you’re focusing on:

Code:

create table personal\_info(

year integer,

id integer,

name varchar,

age integer,

address varchar,

country varchar

);

create table mental\_illness(

id integer,

mass integer,

family\_history BOOLEAN,

social\_skills BOOLEAN,

medication BOOLEAN,

illness\_type varchar,

BMI integer

);

create table treatment(

id integer,

therapy Boolean,

therapy\_type varchar,

medication Boolean,

medication\_type varchar,

medication\_amount integer,

prescription\_id integer,

hospitalization BOOLEAN,

treatment\_institution BOOLEAN

);

create table doctor(

id integer,

instituion\_id integer,

education\_type varchar,

method\_of\_treatment varchar,

certification\_id integer,

years\_at\_institution integer,

doctor\_age integer,

doctor\_type varchar

);

select \* from mental\_illness

natural join treatment

NATURAL join doctor;

Solution Code:

create table personal\_info(

year integer,

id integer,

name varchar,

age integer,

address varchar,

country varchar

);

SELECT age, country

FROM personal\_info

WHERE age < 21 and country = ‘United States’;

create table mental\_illness(

id integer,

mass integer,

family\_history BOOLEAN,

social\_skills BOOLEAN,

medication BOOLEAN,

illness\_type varchar,

BMI integer

);

SELECT BMI

FROM mental\_illness

WHERE BMI > 29.99;

create table treatment(

id integer,

therapy Boolean,

therapy\_type varchar,

medication Boolean,

medication\_type varchar,

medication\_amount integer,

prescription\_id integer,

hospitalization BOOLEAN,

treatment\_institution BOOLEAN

);

SELECT hospitalization

FROM treatment

WHERE hospitalization = true;

create table doctor(

id integer,

instituion\_id integer,

education\_type varchar,

method\_of\_treatment varchar,

certification\_id integer,

years\_at\_institution integer,

doctor\_age integer,

doctor\_type varchar

);

SELECT years\_at\_institution

FROM doctor

WHERE years\_at\_institution > 0;

select \* from mental\_illness

natural join treatment

NATURAL join doctor;

Data schema:

