Dataset

Original dataset: https://www.kaggle.com/kunal28chaturvedi/covid19-and-its-impact-on-students
Revised CSV file of the dataset:
https://drive.google.com/file/d/1dOQaVPNARhVXFHOB5qAOM7xe9Se6Jc27/view?usp=sharing

SQL Table

```
create table covidSurvey(
        id varchar,
        regionOfResidence varchar,
        ageOfSubject INT,
        timeSpentOnOnlineClass numeric,
        ratingOfOnlineClassExperience varchar,
        mediumForOnlineClass varchar,
        timeSpentOnSelfStudy numeric,
        timeSpentOnFitness numeric,
        timeSpentOnSleep numeric,
        timeSpentOnSocialMedia numeric,
        preferredSocialMediaPlatform varchar,
        timeSpentOnTv numeric,
        numberOfMealsPerDay INT,
        changeInWeight varchar,
        healthIssueDuringLockdown BOOLEAN,
        stressBusters varchar,
        timeUtilized BOOLEAN,
        moreConnectionWithFamilyCloseFriendsOrRelatives BOOLEAN,
        missTheMost varchar
);

\copy covidSurvey
(id,regionOfResidence,ageOfSubject,timeSpentOnOnlineClass,ratingOfOnlineClassExperience,
mediumForOnlineClass,timeSpentOnSelfStudy,timeSpentOnFitness,timeSpentOnSleep,timeSp
entOnSocialMedia,preferredSocialMediaPlatform,timeSpentOnTv,numberOfMealsPerDay,chang
eInWeight,healthIssueDuringLockdown,stressBusters,timeUtilized,moreConnectionWithFamilyC
loseFriendsOrRelatives,missTheMost) FROM '*insert spreadsheet path here*' DELIMITER ','
CSV HEADER

select * from covidSurvey;
```

Q1: How do the time spent on fitness and the number of meals per day affect the weight of the interviewee?
   a) I create this question because I want to know the relationship between people's weight and their fitness time and the number of meals.
   b) Yes, I think this question is done successfully. I learn whether the person's fitness time and the number of meals will affect their weight.
   c) I use the CASE and AND function to do the IF condition for solving this question.

--During the pandemic, if the student eats <u>more</u> meals but does <u>less</u> exercise, and his/her weight is increasing, then this shows that the time spent on fitness and the number of meals per day will affect people's weight.
--During the pandemic, if the student eats <u>fewer</u> meals but does <u>more</u> exercise, and his/her weight is decreasing, then this shows that the time spent on fitness and the number of meals per day will affect people's weight.
--Otherwise, other answers show that the time spent on fitness and the number of meals per day will <u>NOT</u> affect people's weight.

```
SELECT id, timeSpentOnFitness, numberOfMealsPerDay, changeInWeight,
CASE
        WHEN timeSpentOnFitness < numberOfMealsPerDay AND changeInWeight =
'Increased' THEN 'YES'
        WHEN timeSpentOnFitness > numberOfMealsPerDay AND changeInWeight =
'Decreased' THEN 'YES'
        ELSE 'NO'
END AS Do_Fitness_Time_And_Number_Of_Meals_Affect_The_Weight
FROM covidSurvey;
```

Q2: What is the ratio of the time spending on <u>social media and TV</u> to <u>online classes and self-study</u> for each interviewee?
   a) I create this question because I want to know the relationship between the time spending on leisure activities (social media and TV) and the time spending on studying (online classes and self-study) for each interviewee.
   b) Yes, I think this question is done successfully. I learn the new NULLIF function and how to use math to find out the ratio.
   c) I use the NULLIF function, round function, and division math function in this question.

--If the answer is less than 1, this means that the student is more hard-working.
--In contrast, if the answer is more than 1, this means that the student spends more time on leisure activities.

```
SELECT id, timeSpentOnSocialMedia, timeSpentOnTv, timeSpentOnOnlineClass,
timeSpentOnSelfStudy, round(((timeSpentOnSocialMedia + timeSpentOnTv) /
```

NULLIF((timeSpentOnOnlineClass + timeSpentOnSelfStudy), 0)), 2) as Ratio FROM covidSurvey;

Q3: How does the health issue relate to each interviewee finding themselves more connected with their family, close friends, and relatives?
   a) I create this question because I want to know the relationship between people's health and the connection with those who are close to them.
   b) Yes, I think this question is done successfully. I learn whether the person's health will be affected by their connection with others.
   c) I use the CASE function to solve this question.

--If "Health issue during lockdown" = "Do you find yourself more connected with your family, close friends, and relatives", this means that the connection with family, close friends, and relatives will affect the health of the student.

```
SELECT id, moreConnectionWithFamilyCloseFriendsOrRelatives, healthIssueDuringLockdown,
CASE
        WHEN moreConnectionWithFamilyCloseFriendsOrRelatives =
healthIssueDuringLockdown THEN 'YES'
        ELSE 'NO'
END AS Does_The_Connection_With_Others_Affect_The_Health_Issue
FROM covidSurvey;
```