# Data Bootcamp Final Project Presentation

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# About Me

I am Sheenay Babb, and I am excited about graduating from this Data Analytics Bootcamp.

I initially started the Bootcamp because I wanted to become a Data Analyst. By completing the Niyo Bootcamp,  I now have skills in Excel, Power Bi, SQL, Python and Tableau. Through this presentation you will see some of the skills I have gained through this course.

# My Project - Objectives

My project dataset is survey data. Looking at COVID-19 and the impact on education, social life and mental health of students.

To understand the relationship between…

1. the amount of time in online class and spent on self study in relation to the device used.
2. Time spent on social media and the online class rating experience.
3. Students who thought they utilized their time and the amount of self study

The amount of time in online class and on self study in relation to the Device (medium) used.

# My Project - Excel Findings

1. Time Spent on Online class – Average, Max, Min, Sum and Count

| | Time on spent Online Class (Total) |
|---|---|
| AVERAGE | **3.2** |
| MAX | 10 |
| MIN | **0** |
| SUM | 3754 |
| COUNT | 1171 |

This allowed me to quickly see the difference in hours between the two.

I used formula's such as Average, Max, Min, Sum and Count to get a snapshot of the hours the students spent the online class and the hours of self study.

| | Time on self study(Total) |
|---|---|
| AVERAGE | **2.9** |
| MAX | 18 |
| MIN | **0** |
| SUM | 3414 |
| COUNT | 1171 |

# My Project - Excel Findings

Amount of Device type by Category

| Device Used to Study | CountIF |
|---|---|
| Laptop Desktop | 533 |
| Smartphone | 37 |
| No Equipment | 51 |
| Tablet | 5 |
| Any Gadget | 540 |
| Smartphone Or Laptop Desktop | 5 |

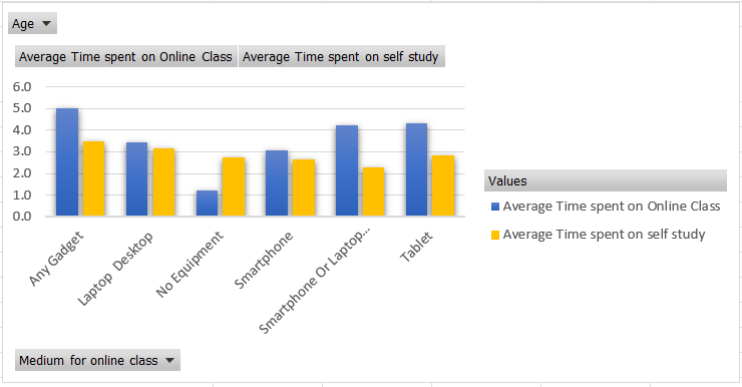
Analysing how many students used each device by category.

# My Project - Excel Findings

**The amount of time in online class and spent on self study in relation to the device used.**

| Device type by Average time spent online and self study filtered by age | | |
|---|---|---|
| Age | (All) | |
| | | |
| **Device for online class** | **Average Time spent on Online Class** | **Average Time spent on self study** |
| Any Gadget | 5.0 | 3.5 |
| Laptop Desktop | 3.4 | 3.2 |
| No Equipment | 1.2 | 2.7 |
| Smartphone | 3.1 | 2.7 |
| Smartphone Or Laptop Desktop | 4.2 | 2.3 |
| Tablet | 4.3 | 2.9 |
| **Grand Total** | **3.2** | **2.9** |

I then transformed this data into a PivotChart to visualise the data shown in the PivotTable




By using a Pivot Table, I summarised the devices used, average time spent on self study and online classes columns to easily analyse the differences.

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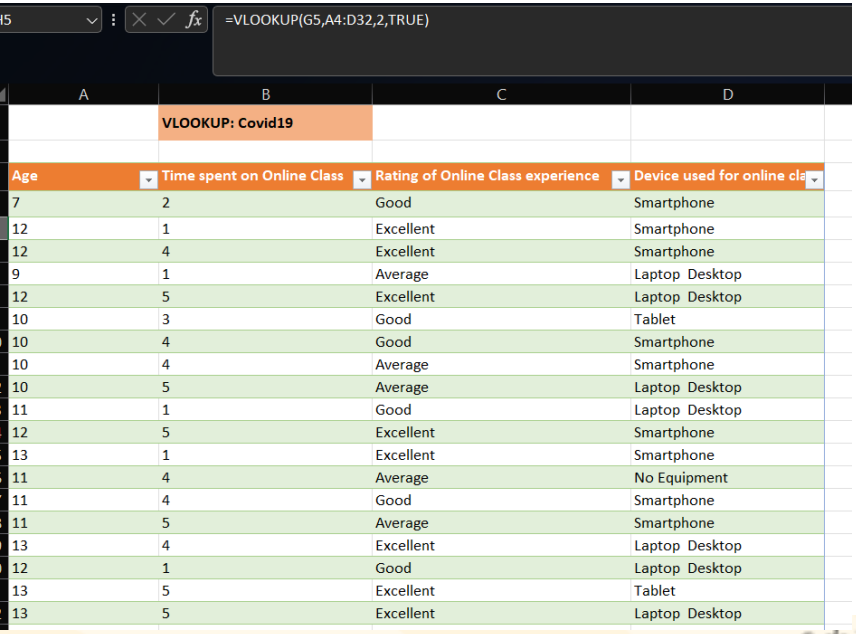
# My Project - Excel Findings

Amount of Device type by Category




| Age | Time spent on Online Class | Rating of Online Class experience | Device used for online cla |
|---|---|---|---|
| 7 | 2 | Good | Smartphone |
| 12 | 1 | Excellent | Smartphone |
| 12 | 4 | Excellent | Smartphone |
| 9 | 1 | Average | Laptop Desktop |
| 12 | 5 | Excellent | Laptop Desktop |
| 10 | 3 | Good | Tablet |
| 10 | 4 | Good | Smartphone |
| 10 | 4 | Average | Smartphone |
| 10 | 5 | Average | Laptop Desktop |
| 11 | 1 | Good | Laptop Desktop |
| 12 | 5 | Excellent | Smartphone |
| 13 | 1 | Excellent | Smartphone |
| 11 | 4 | Average | No Equipment |
| 11 | 4 | Good | Smartphone |
| 11 | 5 | Average | Smartphone |
| 13 | 4 | Excellent | Laptop Desktop |
| 12 | 1 | Good | Laptop Desktop |
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| 11 | 5 | Good | Smartphone |

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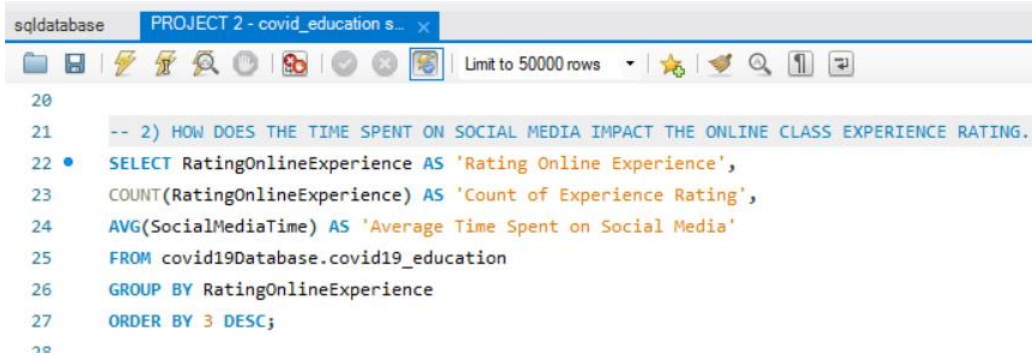
# Time spent on social media and the online class rating experience.

# My Project - SQL Analysis

Time spent on social media and the online class rating experience.




Using SQL I was able to analyse the students Online experience Rating, by looking at the count and averaging the time spent on social media.

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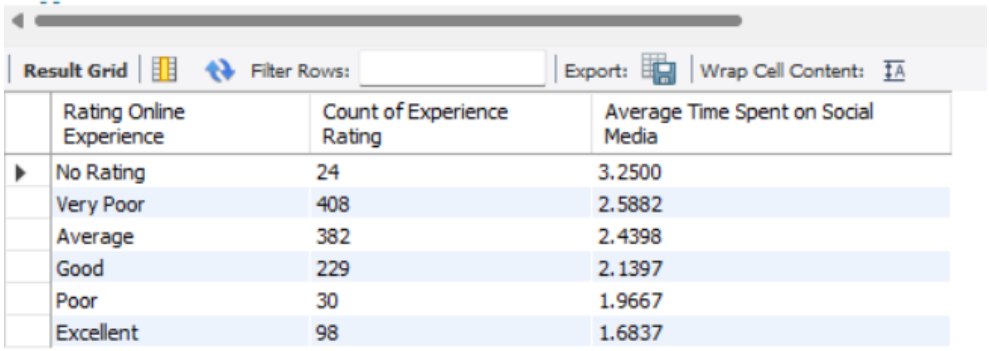
# My Project - SQL Analysis



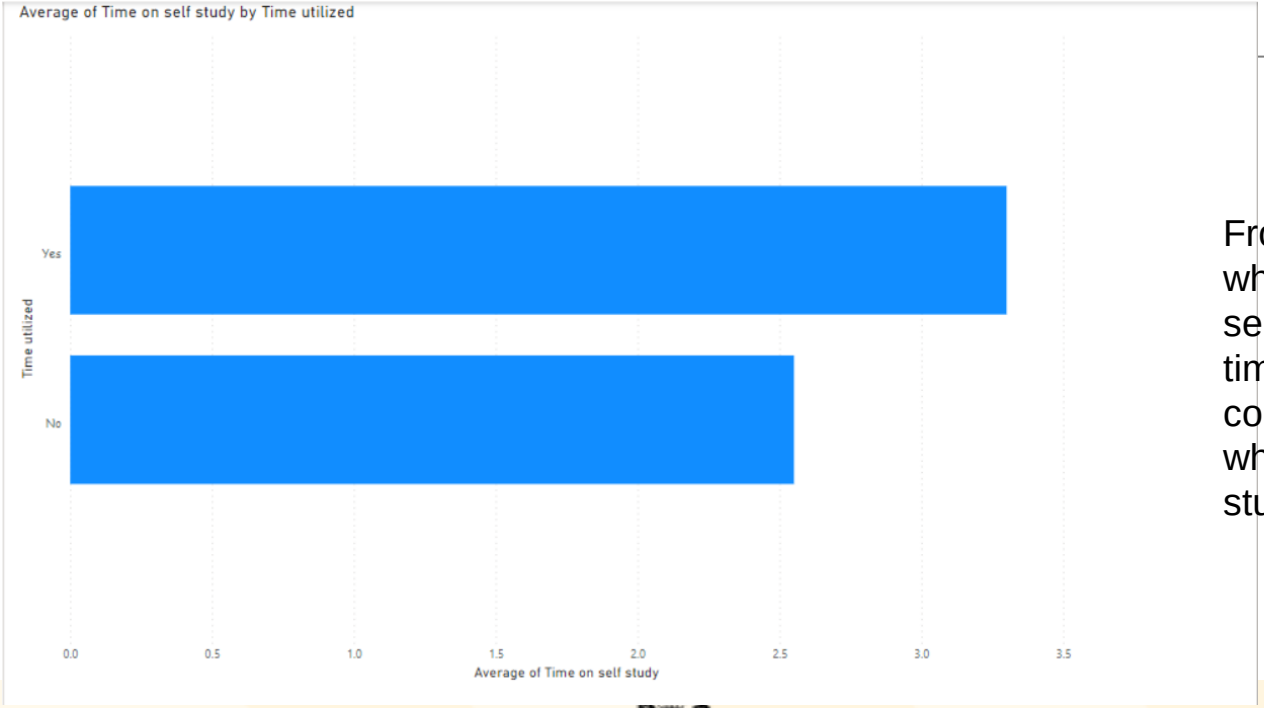
Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| Rating Online Experience | Count of Experience Rating | Average Time Spent on Social Media |
|---|---|---|
| No Rating | 24 | 3.2500 |
| Very Poor | 408 | 2.5882 |
| Average | 382 | 2.4398 |
| Good | 229 | 2.1397 |
| Poor | 30 | 1.9667 |
| Excellent | 98 | 1.6837 |

As data was analysed in descending, you can clearly see that the students who spent the most time on social media gave ‘no rating’ for the online experience. However, this was also the smallest group of students.
408 students have a rating of ‘very poor’ this category is the largest, this category also spends the second longest time on social media.

# Students who thought they utilized their time and the amount of self study

# My Project - Dashboard




From the data, Students who spent more time on self study felt that there time was utilized in comparison to students who spent less time on self study.

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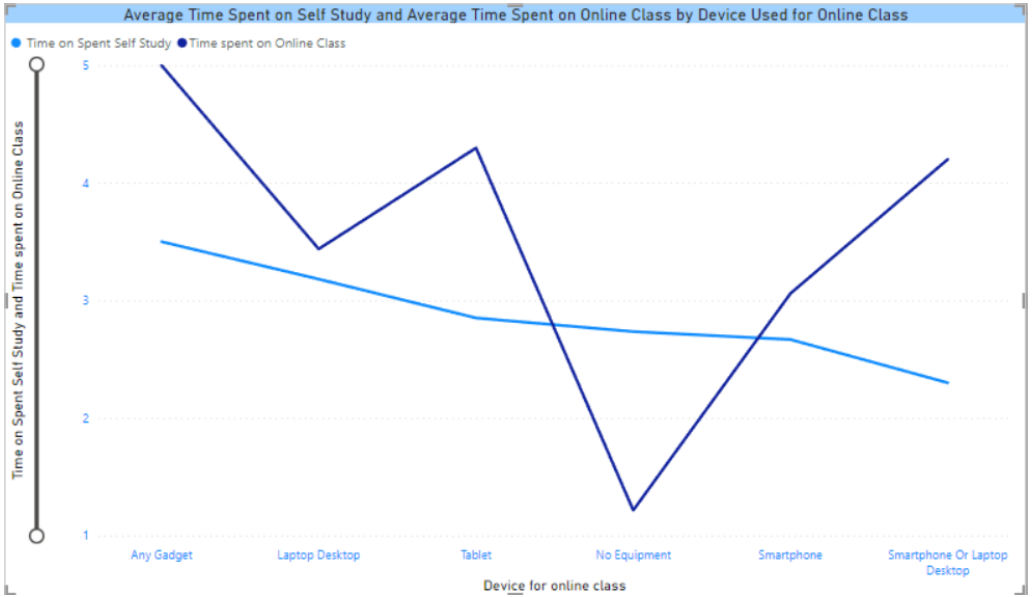
# My Project - Dashboard

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# My Project - Recommendations/Insights

**Recommendations:**

1. Data would have been more reliable if I had information on the subject that was being studied, or the level that the students were studying at.
2. If the online class experience was in ranking from 1-5, or there was some form of scale to gage the students experience of the class.

**Insights:**

1. From this data, I found that ‘Any Gadget’ had the highest online and self study time, tablet had the lowest study time. However, this is a survey and there is ‘No equipment’, and there is still hours spent studying.
2. Time spent on social media does have an impact on the experience online, the amount of time spent on social media has an impact on the class experience rating.

# Challenges

I had several challenges through this project, but I enjoyed the challenge of solving the problem.

1. Loading the data into SQL
2. I really struggled with SQL, and finding the correct query to answer my question. Furthermore, I had issues with the creating a table for ‘age’, when putting them into the age brackets.
3. Figuring out how to change the titles on Power BI.

# Conclusion and Key Learnings

My love for Data Analytics started when I completed my Sociology and Criminology dissertation back in 2019. I am happy to have completed this course, as it has enhanced my skills and enabled me to be in a better position to get a job in Data Analytics. I would like to work within the business, education, beauty or charity sector because I have always worked in this industries and these skills are something I could use to help improve the sector.