

## INTRODUCTION

The data incubator program is design for students to learn data science education for a period of 7 months. 3 tract currently ongoing for this batch which are python, SQL and PowerBI.

A dashboard was develop to show student bio data alongside their performance in the program. Attendance score is 15marks while assignment and class work is 50 mark, hence the maximum score a student could score in a week is 65marks

## INSTRUMENT USED

- Google sheet: Used in collecting of student bio data
- Excel: To analyse SQL output
- SQL: Use to query our objective

## METHODOLOGY

The students' information in the google grade sheet named "Zacrac Incubator grading was used to populate the attendance and Assignment score. A little adjustment was done to 3 of the student in PowerBI class as their score was graded over 100 and I had to re-grade to over 50.

A data base was created using the students' information in the google grade sheet named "Zacrac Inbucator grading sheet" and the student's bio data containing the following information's

- Student name
- Gender
- Age
- Incubator program
- Discipline (education field)
- Student current group
- Student school name
- Student state/region
- Religion
- Nationality
- Enrollment date in incubator
- Instructor name
- Instructor rating

Information's gotten from the google form was exported to excel and data cleaning was done for uniformity.

There are 26 students across the 3 class; 12 python, 4 SQL and 10 PowerBI. Only 17 student filled in their biodata; 8 python, 6 powerBi and 3 SQL

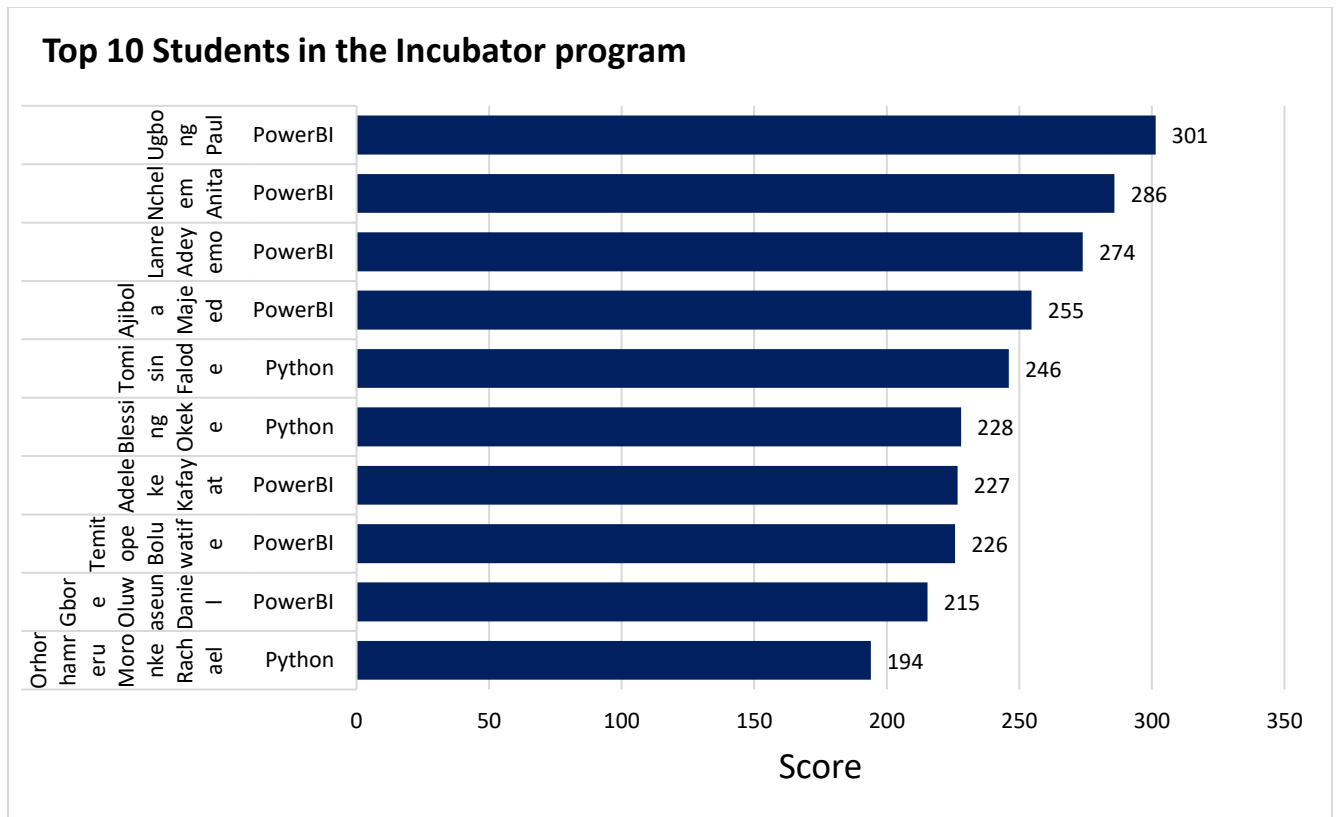
Five tables were created from the 2 files which are

- Student tract
- Student details
- Score
- Instructors name
- Tract

## OBJECTIVE

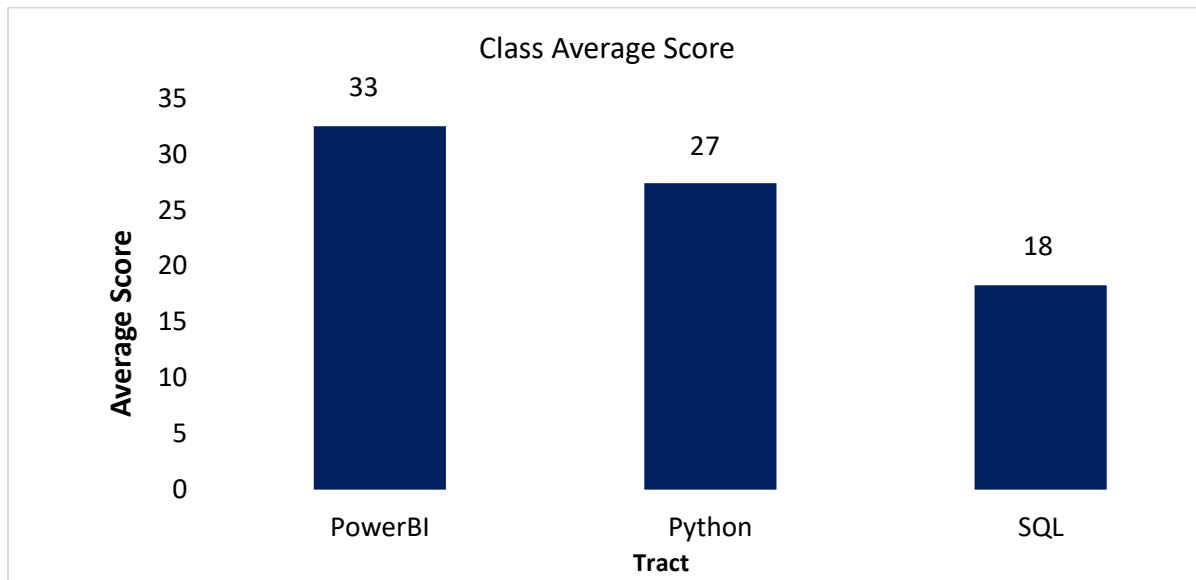
1. Top 10 best students in the incubator program so far
2. Comparative analysis of students' performance across the three tract
3. Performance of students based on their educational field
4. Performance of students based on their group in class
5. Performance of students based on their state/region
6. Performance of students less than or equal to 25 years and those greater than 25 year
7. Table showing each student's name and their enrollment date.
8. A plot showing instructors' ratings on class progress.
9. Showing the students' performance in class in relative to their attendance score.
10. Showing the students' performance in class in relative to their attendance score.
11. The week with the lowest grades all students in each traction

## TOP 10 BEST STUDENTS IN THE INCUBATOR PROGRAM SO FAR



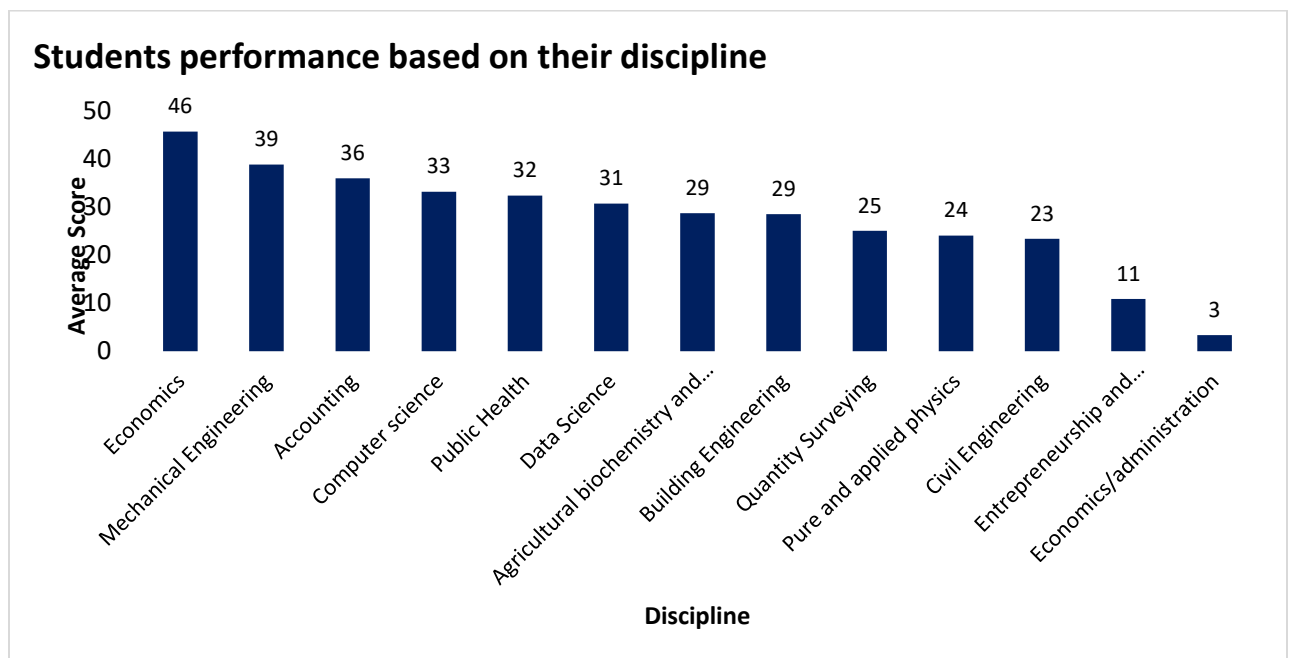
The above chart shows the best 10 score among students in the program in the 6 weeks. Paul Ubong with a score of 301 being the highest. Top 4 student is from PowerBi tract. 3 of the students from python tract are among the top 10, with no student in SQL tract

## COMPARATIVE ANALYSIS OF STUDENTS' PERFORMANCE ACROSS THE THREE TRACT



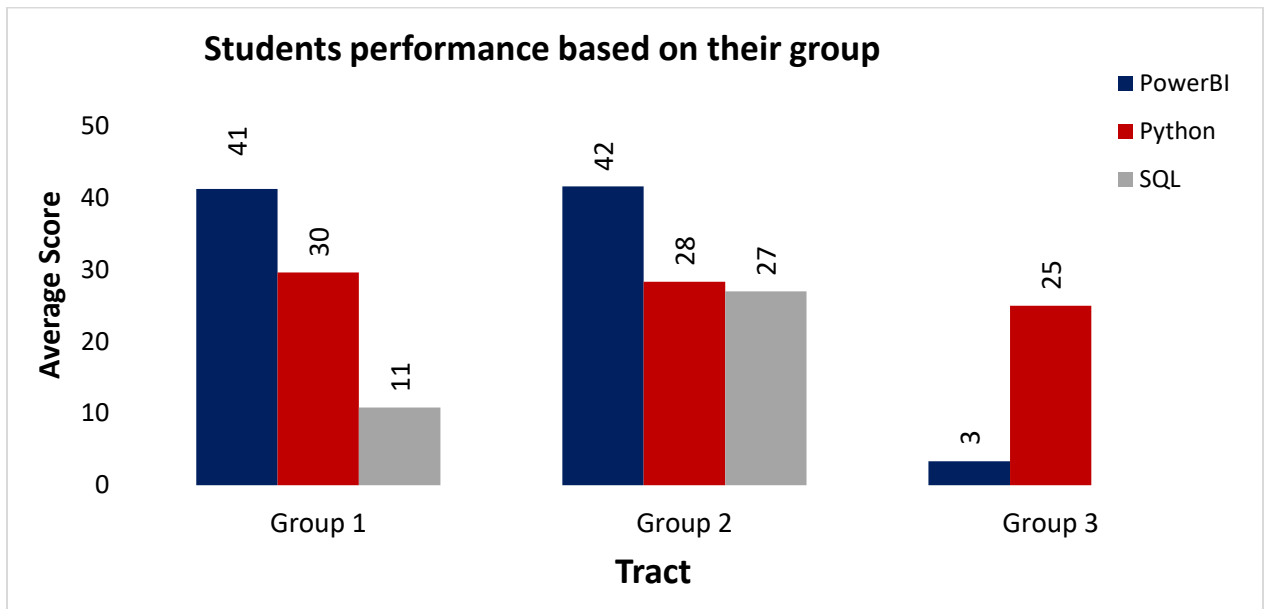
The above chart shows the performance of student across the 3 tract in which PowerBI is leading with an average score of 33, Python 27 and SQL 18

## PERFORMANCE OF STUDENTS BASED ON THEIR EDUCATIONAL FIELD



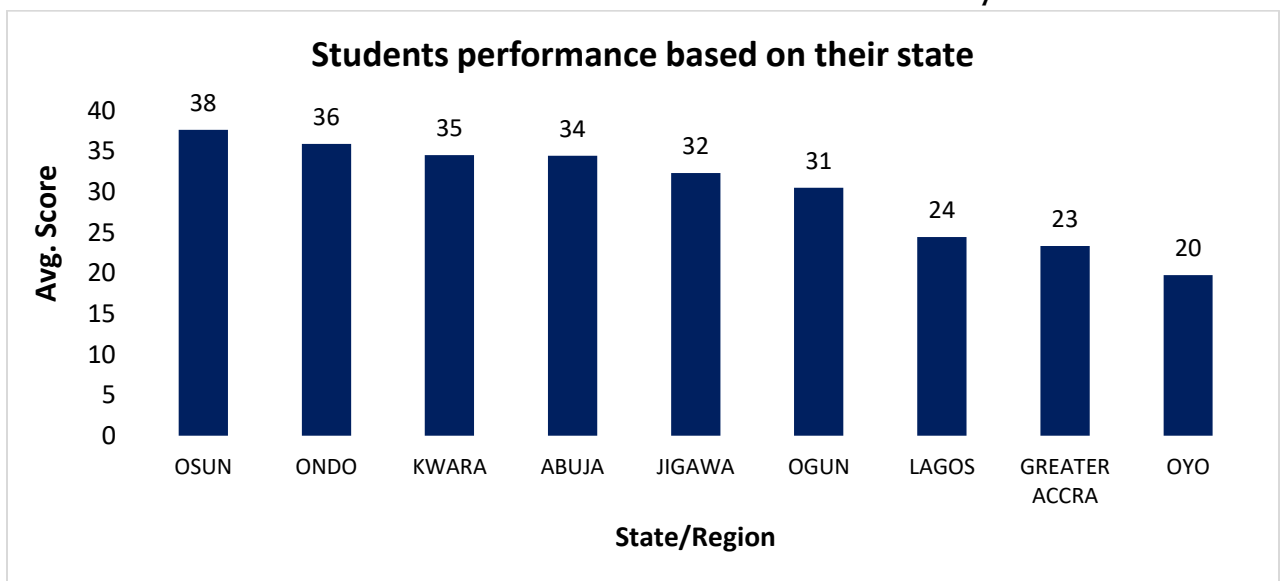
The above graph shows that there are 13 different discipline among the students with Economics students having the best performance while Economics/administration student has the lowest.

## PERFORMANCE OF STUDENTS BASED ON THEIR GROUP IN CLASS



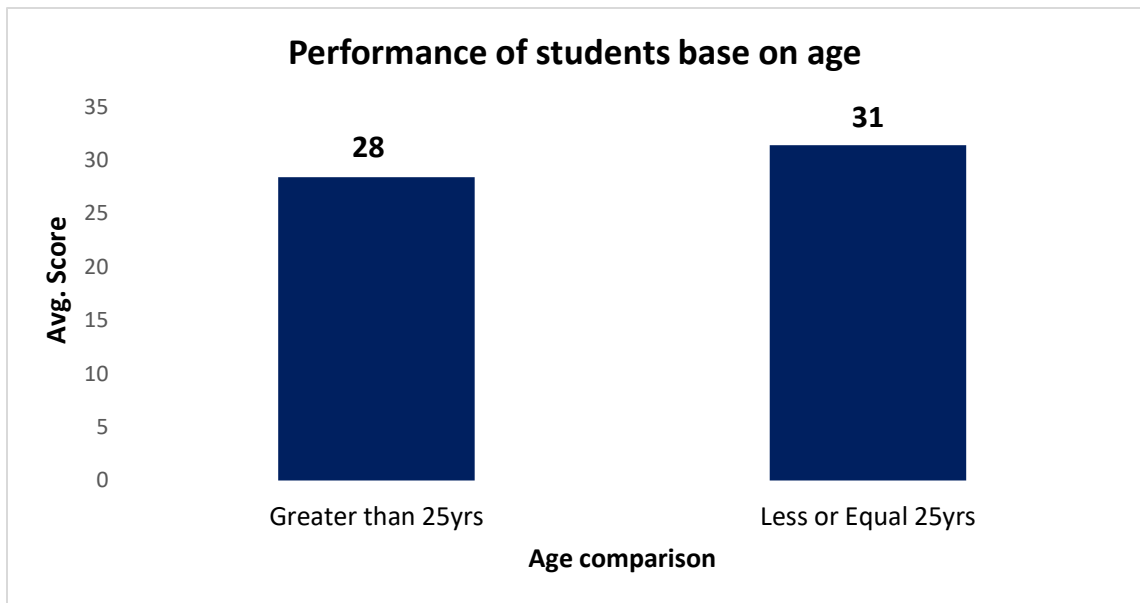
The above graph shows the performance of student in the class based on their group, Group 2 tends to be doing well in the class, next is group 2 while group 3 has the lowest with no representation from the SQL class. Student in PowerBI are doing well in group 1 and 2 while SQL Student perform the least across the 3 groups

## PERFORMANCE OF STUDENTS BASED ON THEIR STATE/REGION



The above graph shows that the students from Osun State are performing well in class with an average score of 38 while Oyo state had the least with an average score of 20.

## PERFORMANCE OF STUDENTS LESS THAN OR EQUAL TO 25 YEARS AND THOSE GREATER THAN 25 YEARS



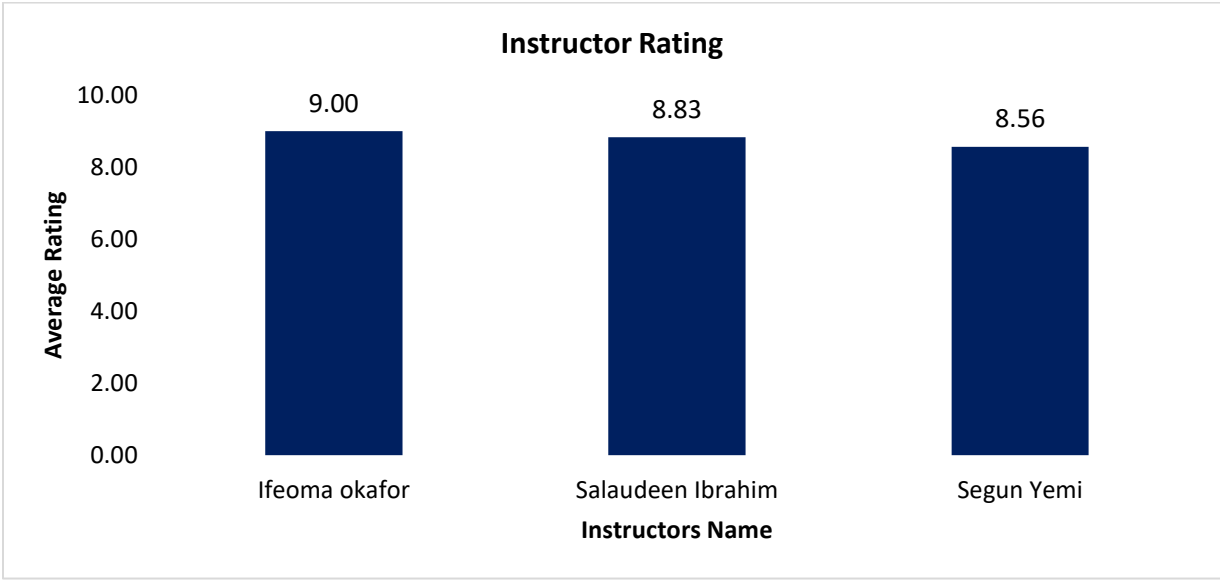
The graph shows that student less than or equal 25yrs of age are doing better in class with an average score of 31 than student above 25yrs of age with an average score of 28

### TABLE SHOWING EACH STUDENT'S NAME AND THEIR ENROLLMENT DATE.

Student_Name	day	Month
Daniel Yaw Sarfo	16	July
Akinmutimi Gbemiro	6	June
Adedara David	3	June
Olawuyi Gbolahan Tosin	1	June
Lanre Adeyemo	29	March
Junaid Anjolaoluwa	6	May
Ayeni funmilayo	5	May
Temitope Boluwatife	30	May
Adeleke Kafayat	30	May
Christopher Afolabi	23	May
Koyejo Dada Kay	23	May
Ugbong Paul	18	May
Tomisin Falode	18	May
Sinmisola	16	May
Gbore Oluwaseun Daniel	16	May
Moronke Rachael	16	May
Dada Jasmine	1	May

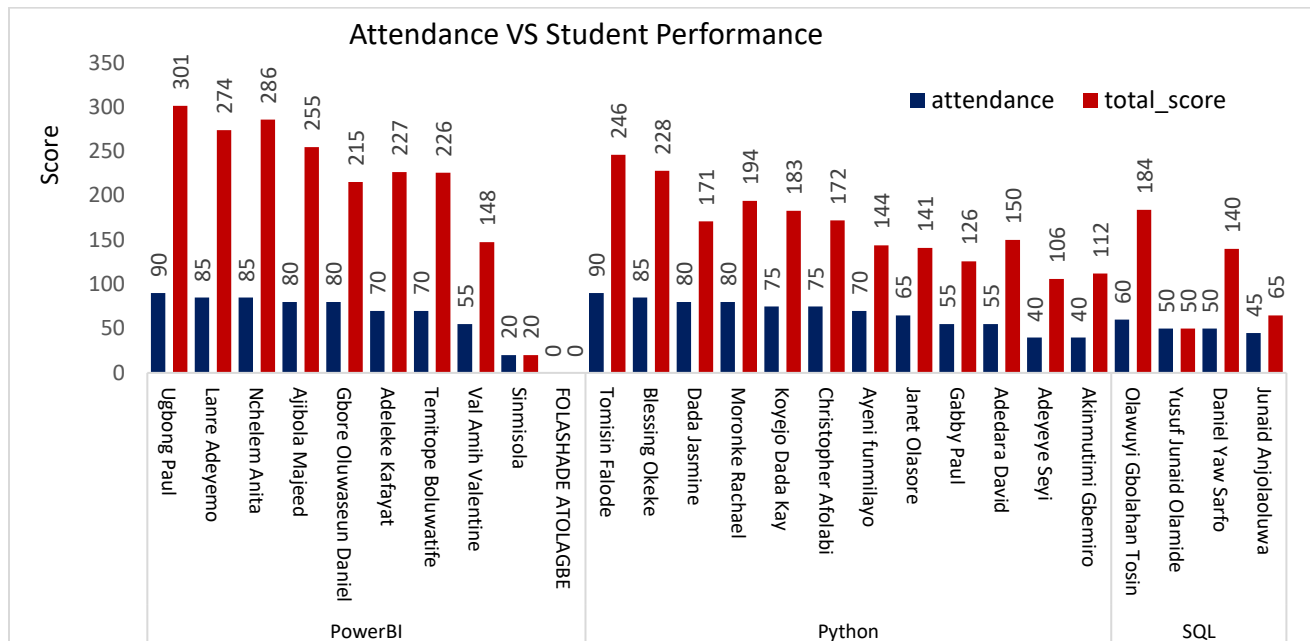
The table above shows the date and month each student joined the program the earliest been Lanre Adeyemo who joined 29<sup>th</sup> of March and the last person 6<sup>th</sup> of June. Daniel Yaw Sarfo information is queried because as at the time this data was compiled and analyse we had not reached the date afore mention by the student

**A PLOT SHOWING INSTRUCTORS' RATINGS ON CLASS PROGRESS.**



The above Chart shows Ifeoma Okafor the class instructor of the SQL class with the highest rating of 9, next is Salaudeen Ibrahim the instructor for PowerBI class with an averagrating of 8.83 and the least is Segun Yemi the instructor of Python class with an average rating of 8.56

## SHOWING THE STUDENTS' PERFORMANCE IN CLASS IN RELATIVE TO THEIR ATTENDANCE SCORE.



The above table shows the performance of students based on their attendance.

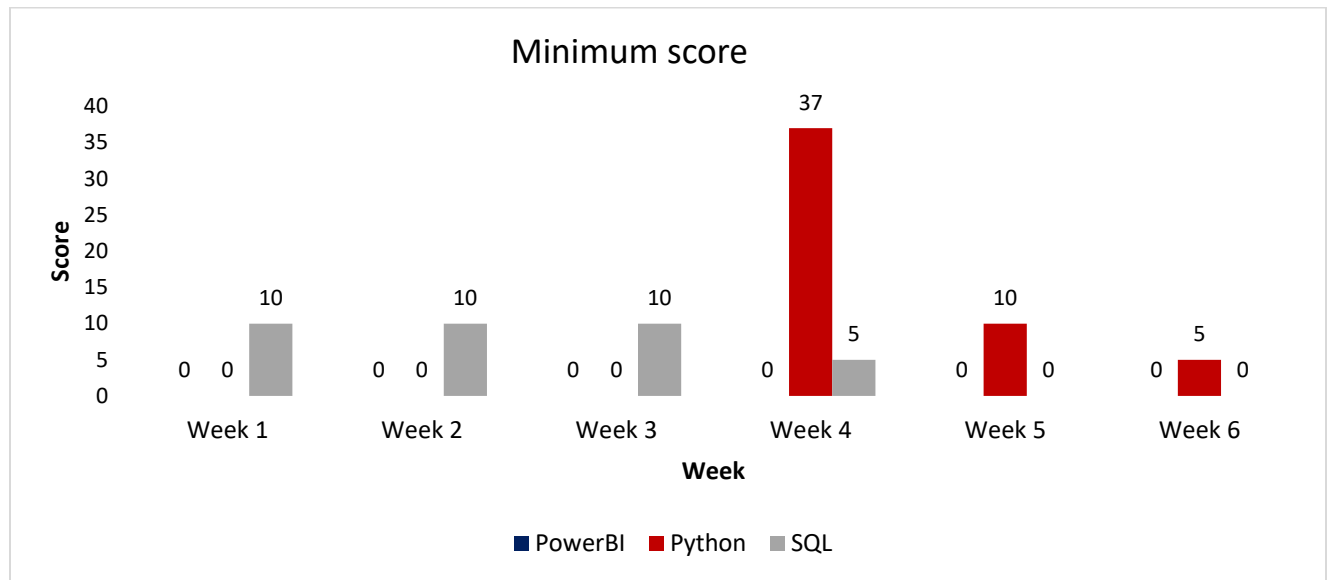
It can be deduce from the table that the performance of student in PowerBI class is relative to their attendance in class.

Same goes for Python class partially with 2 of their student (Koyejo and Christopher) still having a higher mark with an attendance score of 75 compare with Jasmine who had 80.

For SQL class the student performance is not in any way relative their attendance in class

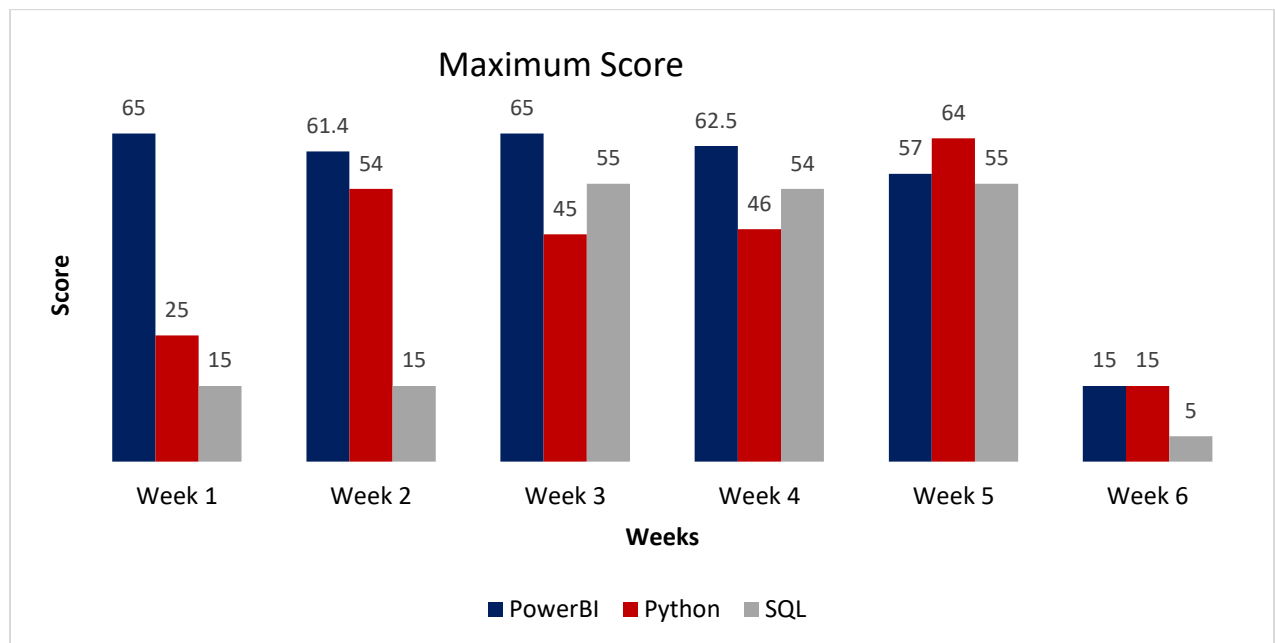


### THE WEEK WITH THE LOWEST GRADES ALL STUDENTS IN EACH TRACTION



The above chart shows the week with the minimum score of student in each tract. The performance of student are low for all weeks except for week 4 for the python tract because most of the student joined the class late probably from week 4 and zero score had to be recorded for them from week 1 despite not been a part of the class.

### THE WEEK WITH THE LOWEST GRADES ALL STUDENTS IN EACH TRACTION



The above chart shows the week with the maximum score of student in each tract. The performance of student in PowerBI tract is better compare to other tract.

## **CONCLUSION**

In conclusion, it was observed that student in sciences are performing better than other discipline. PowerBI tract are performing better than other tract in the program. Student who are less than 25 years of age are doing better than those greater than 25years.

Student's attendance is relative to their performance

## **RECOMMENDATION**

I recommend that

1. attendance should be made compulsory for student and student who are ready to commit their time should be admitted into the program
2. Student who are older than 25years of age should be given more attention so as to help improve their performance
3. Student unique ID to be assign to each student

## ENTITY RELATIONAL DIAGRAM

