RAJSHAHI UNIVERSITY OF ENGINEERING & TECHNOLOGY

PROJECT REPORT
CSE 3200

RUET Admission Test Result Making Software

Submitted To:

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Project Title: RUET Admission Test Result Maker

Project Description:

The project is all about of making an application that can compile the result of the admission test of RUET. The user has to give the inputs like the student info, marks of different subject and so on. The software will simply create a database, then, process and compile the result. Finally, it will be showed in a different file.

Language and Tools:

Python (v-3.7), MySQL workbench, Atom editor.

Details and Working Procedure:

1. Firstly, the required inputs for the compilation of result is taken as CSV format.
2. In codeRoll, every student has a roll as well as a respective code. In student_info, every student has respective roll and name. In codeSubNo, there is code of the students and their marks of different subjects. All of these inputs are in CSV format.
3. The CSV files were imported and by importing pymysql the connection between python and mysql was done. The inputs of the CSV files were the inputs of the database.

   db = pymysql.connect("localhost","root","ap2506","resultapp")
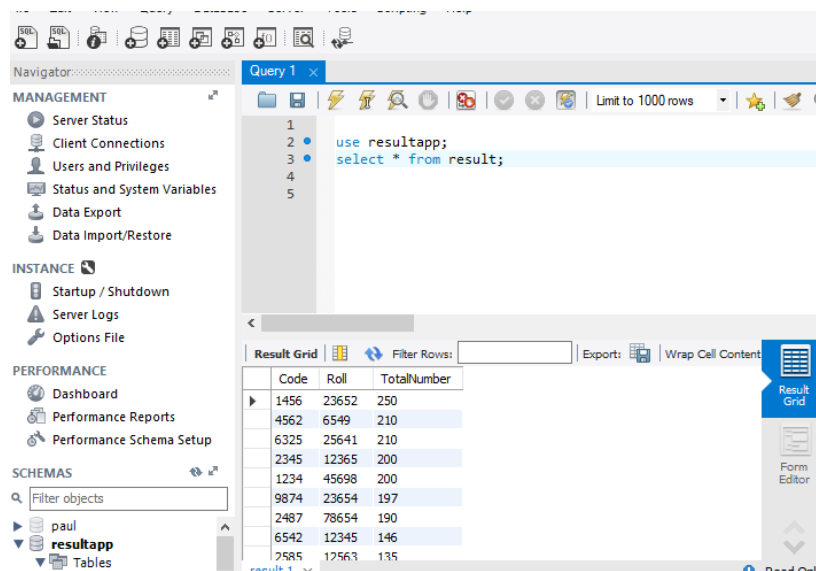
   cursor = db.cursor()

4. Each CSV file is a table of the database. And, they are linked by primary key. Thus, relations were created between the tables.

5. Finally, the result was compiled in the database. The process was simple enough, analogous to the system of RUET. The student who has most total numbers would be in the top rank. If the total numbers are same, the priority of marks of subject all be physics, math, chemistry, English respectively.
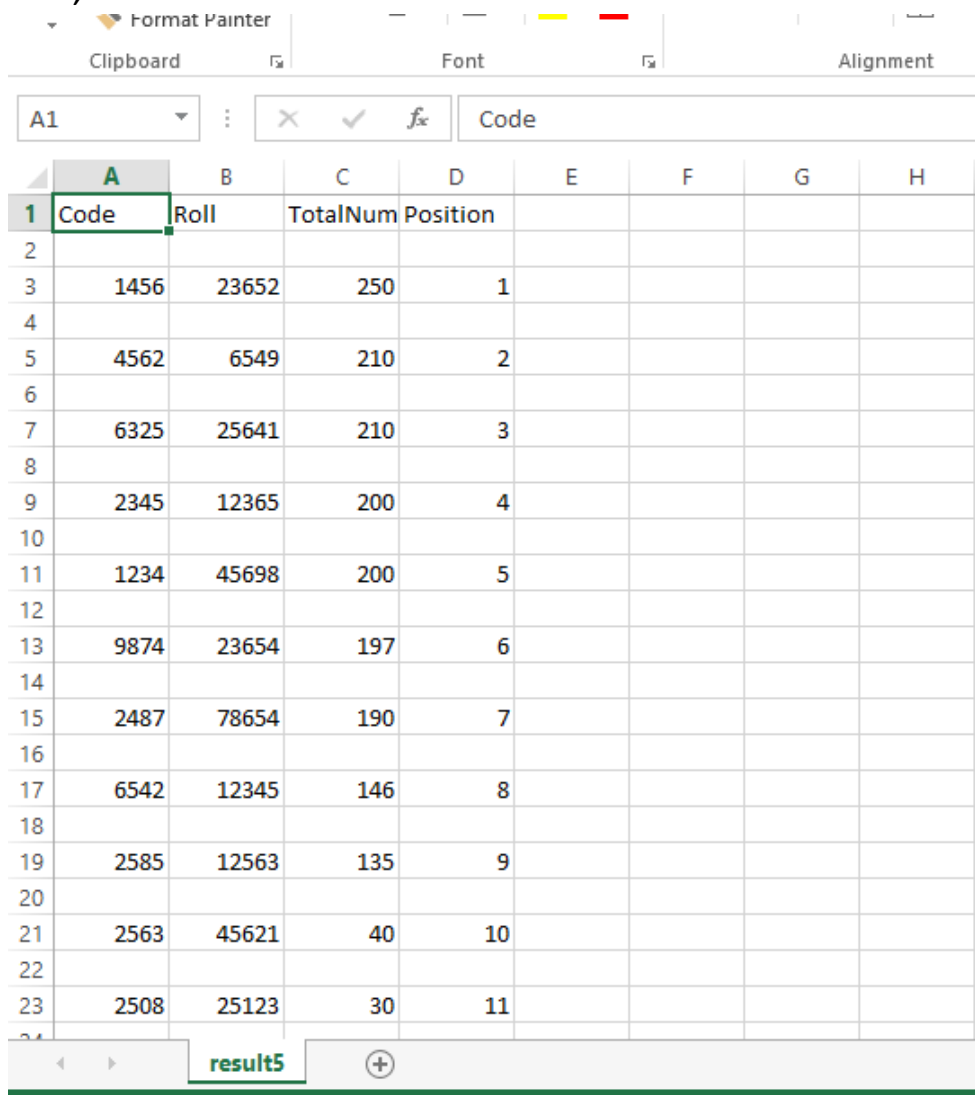
query = "INSERT INTO Result SELECT Code_SubNumber.Code, STUDENT_INFO.Roll,(Physics+Math+Chemistry+English) AS TotalNumber From STUDENT_INFO,Code_SubNumber,ROLL_CODE WHERE STUDENT_INFO.Roll=ROLL_CODE.Roll AND Code_SubNumber.Code=ROLL_CODE.Code ORDER BY TotalNumber DESC,Physics DESC,Math DESC,Chemistry DESC,English DESC"

cursor.execute(query)

6. Through the query the total number of the student is inserted into a table called result.

7. Finally, the result was made output in CSV format also with Code, Roll, Total-Number and Positions of the students.

	A	B	C	D	E	F	G	H
1	Code	Roll	TotalNum	Position				
2								
3	1456	23652	250	1				
4								
5	4562	6549	210	2				
6								
7	6325	25641	210	3				
8								
9	2345	12365	200	4				
10								
11	1234	45698	200	5				
12								
13	9874	23654	197	6				
14								
15	2487	78654	190	7				
16								
17	6542	12345	146	8				
18								
19	2585	12563	135	9				
20								
21	2563	45621	40	10				
22								
23	2508	25123	30	11				

result5

This is all about how the software was made in brief.

Limitations and Flaws:

I could not finish the software fully. The Graphical User Interface is not there still. There could be added another special feature. Taking inputs

from multiple computers in the software so that the result compilation becomes faster and more efficient.

Future work:

Maybe, in the near future, it might be completed with full customization. The additional feature of taking inputs from multiple computers can be added. And, there is opportunity of making an elegant GUI and increase the performance of the software by optimization.

Summing up:

Through this project, I have learnt about some internal features of python and mysql. My knowledge and experience of programming has increased which has made me better than before. Though I couldn't fully complete my project as I supposed to do, It was a good software project from which I have learnt some new things. The software can be used in admission test result compilation as it has been designed keeping the system of RUET in mind.