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CS 060 – Database Design and Implementation

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### Assignment 3 Summary

These data are Zhejiang Gaokao (College Entrance Exam) Admission Score Lines<sup>1</sup> in the First Enrollment Round of Year 2019. The URL of these data is <https://www.zjzs.net/moban/index/402848536bab8311016bfe0466c600a8.html>.

Through these queries, we find that most universities would admit students with Gaokao score lower than 640. This could release some pressure for high school students, and encouraging them to spend more time outside of standardized exams.

I do believe that the dataset is reliable, and the actual results reflect what I have anticipated to find. On the one hand, the data source comes from a governmental authority that administrates Gaokao in Zhejiang Province. On the other hand, the results are within common expectation. For example, our queries show that Tsinghua University and Peking University, which are the two Chinese universities ranked highest according to QS World University Rankings, also have the highest requirement on students' least Gaokao score.

For further researches, I would like to use MATLAB software or Python libraries such as pandas or seaborn, to visualize the data, so that readers will feel more comfortable. Also, it is preferable to obtain more data, such as the actual distribution of Gaokao scores of admitted students for each major at each university.

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<sup>1</sup> The admission to college in China is (with few exceptions) based only on the scores in Gaokao (College Entrance Exam), and every year, the authority will publish the lowest Gaokao score with which one student may be admitted to any given major/division of a particular college/university.

## Appendix: Terminal Snapshot (on Ubuntu)

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funglui@LAPTOP-VQI32I7J: /mnt/d/CS 060 Database Design/Assignments/HW3
funglui@LAPTOP-VQI32I7J: /mnt/d/CS 060 Database Design/Assignments/HW3$ sqlite3 gaokao_english.db < hw3_english.sql
Q1
5270
Q2
"Yangzhou University","Chemical Engineering and Technology ",601,47012
"Yangzhou University","Engineering Management ",601,46375
"Anhui University of Finance and Economics","Economics ",601,46563
"Anhui University of Finance and Economics","Finance ",601,46298
"Anhui Normal University","Economics ",601,46456
"Fujian Normal University","Cyberspace security ",601,46717
"Fujian Normal University","Software engineering ",601,46461
"Huaqiao University","Biological Engineering ",601,46567
"East China Institute of Technology","Biotechnology ",601,46740
"East China Jiaotong University","English language ",601,46445
Q3
"Shanghai International Studies University (First-Class Discipline College)","Accounting ",661
"Suchow University (First-Class Discipline College)","Accounting ",660
"Xiamen University (First-Class University)","Accounting ",673
"Zhongnan University of Finance and Politics (First-Class Discipline College)","Accounting ",662
"South China University of Technology (First-Class University)","Accounting ",661
Q4
"Zhejiang University of Technology (Provincial Plan of 2011) (Provincial Key University)","171.428571428571
"Zhejiang University of Finance and Economics (Provincial Key University)","115.75
"Zhejiang Shuren College (Zhejiang Shuren University) (private school)","100.0
"Zhejiang University (First-Class University)","88.7777777777778
"Zhejiang University Ningbo Institute of Technology (Non-Profit)","87.8333333333333
Q5
"Zhejiang University of Technology (Provincial Plan of 2011) (Provincial Key University)","171.428571428571
"Zhejiang University of Finance and Economics (Provincial Key University)","115.75
"Zhejiang Shuren College (Zhejiang Shuren University) (private school)","100.0
Q6
"An-Hui Engineering University does not enroll students with Gaokao score less than 595 for Software engineering Major."
"Anhui Agricultural University does not enroll students with Gaokao score less than 595 for Animal medicine Major."
"Anhui Agricultural University does not enroll students with Gaokao score less than 595 for Forestry (including economic forest direction) Major."
"Anhui Agricultural University does not enroll students with Gaokao score less than 597 for Japanese Major."
"Anhui Medical University does not enroll students with Gaokao score less than 617 for Pharmacy Major."
"Anhui Medical University does not enroll students with Gaokao score less than 624 for Preventive Medicine Major."
"Anhui Medical University does not enroll students with Gaokao score less than 628 for Clinical pharmacy Major."
"Anhui Medical University does not enroll students with Gaokao score less than 632 for Anesthesiology Major."
"Anhui Medical University does not enroll students with Gaokao score less than 638 for Clinical medicine Major."
"Anhui Normal University does not enroll students with Gaokao score less than 595 for Biopharmaceutical Major."
"Anhui Normal University does not enroll students with Gaokao score less than 595 for Land resource management Major."
"Anhui Normal University does not enroll students with Gaokao score less than 595 for Public service management Major."
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funglui@LAPTOP-VQI32I7J: /mnt/d/CS 060 Database Design/Assignments/HW3
Q7
65
66
67
68
69
Q8
"Changchun University",595
"China Agricultural University (First-Class University)",644
"Chongqing University of Posts and Telecommunications",595
"Hebei University of Technology (First-Class Discipline College)",625
"Southwestern Medical University",619
Q9
"Beijing University of Posts and Telecommunications (First-Class Discipline College)",641
"China Ocean University (First-Class University)",641
"First Normal University (First-Class Discipline College)",641
"Jilin University (First-Class University)",641
"Southwestern University of Finance and Economics (First-Class Discipline College)",641
Q10
1751
Q11
"Fudan University (First-Class University)","Economics (including the double degree program at the University of Groningen, The Netherlands) ",698
"Renmin University (First-Class University)","Economics ",692
"University of Science and Technology of China (First-Class University)","Economic management pilot class ",688
"Shanghai University of Finance and Economics (First-Class Discipline College)","economics ",684
"Shanghai University of Finance and Economics (First-Class Discipline College)","Economics (Chinese-foreign cooperative education) (quantity economy) ",675
Q12
"Peking University (First-Class University)",711.4
"Tsinghua University (First-Class University)",707.5
"Shanghai Jiaotong University (First-Class University)",699.0
"Fudan University (First-Class University)",698.25
"Peking University School of Medicine (First-Class University)",697.285714285714
funglui@LAPTOP-VQI32I7J: /mnt/d/CS 060 Database Design/Assignments/HW3$
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