# Analysis of 2017 HKDSE Result

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Graphical user interface, text

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I pick up an interesting dataset about HK education and download csv file about from HK education section. The topic tells the condition of performance of HK students who take exam in 2017.

This data has 216 rows and 16 columns. Each name of columns is 'No', 'Subject', 'Subject\_2', 'Gender', 'Type', 'No.entered', 'No. sat', 'Chinese\_version%' and eight performance degrees. The data type of ‘No’ is ‘int64, ‘No.entered’ and ‘No. sat’ are ‘float64’.

Looking into the data, I am curious about in a total number how male and female students behave in the HKDSE. And I am also interested in the condition of performance of male and female in eight performance degree respectively.

Hence the useful parts of data are the columns ‘Subject’, ‘Subject\_2’ which can help me figure out the name of the subject after I operate the data. The column ‘Gender’ can help me analyze data by male or female solely. The column ‘Type’ can help me to remove the percentage type data which I don’t need it at all in the analysis. The eight columns performance degree Performance 5\*\*, 5\*, 5+, 4+, 3+, 2+, 1+ and U can help me know the performance of male or female students.

From the Figure 1 we can see that generally without considering the gender issue, the performances of students mainly focus on 1+ to 3+ and the most students have performance degree 1+ followed by 2+. Then from performance 1+ to 5\*, clearly the total numbers of female student are all surpass male students. However as to performance 5\*\* and performance U, the numbers male students are more than female students.

Chart, bar chart

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Figure 1 The performance of male and female students in a total number

We can see that in the Figure 2-1 and 2-2 there are four major groups that three are female student groups majoring Chinese Language, English Language and Liberal Studies respectively and one is male student group majoring Mathematics Compulsory Part.

Table

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Figure 2-1 Detail Performance 5 \*\* condition of students

Chart, scatter chart

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Figure 2-2 Performance 5 \*\* condition of students

In the Figure 3-1 and 3-2, the same as 5\*\* degree, male students is in dominant position in Mathematics Compulsory Part in 5\* degree.

Table

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Figure 3-1 Detail Performance 5 \* condition of students

Chart, scatter chart

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Figure 3-2 Performance 5 \* condition of students

In the Figure 4-1 and 4-2, the same as 5 \* and 5\*\*, male students is in dominant position in Mathematics Compulsory Part in 5+ degree.

Table

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Figure 4-1 Detail Performance - 5+ condition of students

Chart, scatter chart

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Figure 4-2 Performance - 5+ condition of students

In the Figure 5-1 and 5-2 female students is in dominant position in Mathematics Compulsory Part comparing with above 4+ degree.

Table

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Figure 5-1 Detail Performance - 4+ condition of students

Chart, scatter chart

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Figure 5-2 Performance - 4+ condition of students

In the Figure 6-1 and 6-2 female students is in dominant position in Mathematics Compulsory Part and Liberal Studies in 3+ degree.

Table

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Figure 6-1 Detail Performance - 3+ condition of students

Chart, scatter chart

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Figure 6-2 Performance - 3+ condition of students

In the Figure 7-1 and 7-2 female students is a little in dominant position in Mathematics Compulsory Part and Liberal Studies in 2+ degree the same as 3+ degree.

Table

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Figure 7-1 Detail Performance - 2+ condition of students

Chart, scatter chart

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Figure 7-2 Performance - 2+ condition of students

In the Figure 8-1 and 8-2 we can see that there are no dominant point in the degree 1+ which means both male and female students behave almost at the same level.

Table

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Figure 8-1 Detail Performance - 1+ condition of students

Chart, scatter chart

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Figure 8-2 Performance - 1+ condition of students

In the Figure 8-1 and 8-2 we can see that male is in the dominant position of English Language in U degree.

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Figure 8-1 Detail Performance - U condition of students

Chart, scatter chart

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Figure 8-2 Performance - U condition of students

In a conclusion, generally all the students' performances are mainly concentrated from 1+ to 3+. In the deeper exploration we find that male students have better performance in Mathematics Compulsory Part while female students have better performance in Language Study and Liberal Studies in 3+, 4+, 5+, 5\*, 5 \*\* aspects. There are no differences of performance between male and female student in 1+ and 2+. Especially, male students behave not well in English Language.