#### Appendices

##### MongoDB dataset visualizations

###### Appendix 00

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| Visualization of the distribution of student scores |
| A graph of a graph  Description automatically generated with medium confidence |

###### Appendix 01

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| Here, I’ve how the selected student has performed compared to other students in the same classes using an average of their scores for all their assessment items as the basis of comparison. |
| Showing it in action...  With student ID of 0  A screenshot of a computer screen  Description automatically generated  With student ID of 1  A screen shot of a graph  Description automatically generated |

###### Appendix 02

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| Visualization of the least to most common grades students receive for their assessment items. This reveals that more students succeed with their assignments than fail at them by a small margin. This means that students are underperforming or that the markers are quite harsh. |
| A graph with different colored bars  Description automatically generated |

###### Appendix 03

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| Visualization of student scores across two different classes. **Useful insights could be gathered from this side by side analysis if:**   * We could compare the grades for a given class with previous years to see if there has been an improvement in student performance + teaching quality |
| A graph of students in different classes  Description automatically generated |

##### OULAD dataset schema

###### Appendix 04

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| Shows the original schema |
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| Shows the new schema after I merged some tables together |
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##### OULAD dataset changes made to the data

###### Appendix 05

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| Showing how if student has (Orange) or has not (Blue/Purple) taken an exam affects how I calculate the grade  Showing how if student has not (Yellow) finished the course affects how I calculate the grade |
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##### OULAD dataset visualizations

###### Appendix 06

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| Visualization of student grades for the module and presentation combinations |
| Before change to assessment weightings so that the assessments for a module and presentation pairing add up to 100%  A screenshot of a graph  Description automatically generated  After change to assessment weightings so that the assessments for a module and presentation pairing add up to 100% |

###### Appendix 07

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| Visualization of cumulative GPA |
| Before change to assessment weightings so that the assessments for a module and presentation pairing add up to 100%  A graph with different colored bars  Description automatically generated  After change to assessment weightings so that the assessments for a module and presentation pairing add up to 100%  A graph of different colored rectangular bars  Description automatically generated |

###### Appendix 08

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| Visualization of what affect poverty has on student scores |
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###### Appendix 09

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| Visualization of what affect the age of a student has on student scores |
| A screenshot of a computer screen  Description automatically generated |

###### Appendix 10

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| Visualization of what affect being disabled has on student scores |
| A line drawing of a bird  Description automatically generated |

###### Appendix 11

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| Visualization of what affect gender has on student scores |
| A drawing of a funnel  Description automatically generated |

###### Appendix 12

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| Visualization of how fast students are at handing in their assignments |
| A graph of a person  Description automatically generated with medium confidence |

###### Appendix 13

Before change to assessment weightings so that the assessments for a module and presentation pairing add up to 100%

A screenshot of a group

Description automatically generated

A bar code with text

Description automatically generated

After change to assessment weightings so that the assessments for a module and presentation pairing add up to 100%

A screenshot of a computer

Description automatically generated

A screen shot of a bar code

Description automatically generated

###### Appendix 14

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| Visualization of how education levels on entry to the module affected student scores |
| A chart of different colors  Description automatically generated with medium confidence |

###### Appendix 15

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| Visualization of a simple linear model |
| A black and white image of lines  Description automatically generated |

###### Appendix 16

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| Visualization of student performance based on assessment type |
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###### Appendix 17

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| Visualization of students that followed through their course + module combination to completion |
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###### Appendix 18

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| Visualization of the number of male students and number of female students |
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###### Appendix 19

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| Visualization of where students come from |
| Students in the UK    Students in England    Note that I excluded students from the {North region} and {South region} in the OULAD dataset from this plot because I couldn’t find a map of England that featured these regions |

###### Appendix 20

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| Visualization of the distribution of student scores |
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