**Database Design & Development (Advocate: Thiago Viana)**

**Design a relational database system using appropriate design tools and techniques, containing at least four interrelated tables, with clear statements of user and system requirements.**

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| <https://github.com/LBruni98/ERD-and-SQL-table> |
| The link above directs the user to a database repo. The repo contains a ERD diagram and the link to the SQL code. The diagram describes the relationships of the databases of the college; the departments, students and modules and the code has the database constructed and the tables created inside for each information shown in the ERD diagram. |

**Develop the database system with evidence of user interface, output and data validations, and querying across multiple tables.**

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| To be completed |
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**Implement a query language into the relational database system.**

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| <https://github.com/LBruni98/ERD-and-SQL-table> |
| The link above directs the user to a database repo. As stated before the repo contains the SQL code and diagram. The repo delves into what an ERD diagram is and what its purpose is. Also included are a description and link to the tools used to create the diagram and the SQL database. |

**Test the system against user and system requirements.**

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| <https://github.com/LBruni98/Countdown>  <https://github.com/LBruni98/Countdown/blob/master/Countdown%20Test%20Plan.docx> |
| Above are the links to another micro project, Countdown. The link above is to the repo and README document of the project and the link below is the initial test plan, used to test the program and identify flaws and bugs within the program. An evaluation of the test plan goes into why it’s important and how it helped out with developing the app. |

**Produce technical and user documentation.**

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| To be completed |
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**Produce a comprehensive design for a fully functional system which includes interface and output designs, data validations and data normalisation.**

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| To be completed |
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**Implement a fully functional database system which includes system security and database maintenance.**

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| To be completed |
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**Assess whether meaningful data has been extracted through the use of query tools to produce appropriate management information.**

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| To be completed |
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**Assess the effectiveness of the testing, including an explanation of the choice of test data used.**

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| <https://github.com/LBruni98/Countdown> |
| Above is the link to the Countdown project repo, mentioned before. The evidence is listed under the test plan evaluation subheading, after the test plan. The evaluation is sufficient because it assesses the effectiveness and reasons for specific testing used for each feature. |

**Produce technical and user documentation for a fully functional system, including diagrams showing movement of data through the system, and flowcharts describing how the system works.**

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| To be completed |
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**Assess the effectiveness of the design in relation to user and system requirements.**

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| To be completed |
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**Evaluate the effectiveness of the database solution in relation to user and system requirements, and suggest improvements.**

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| To be completed |
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**Assess any future improvements that may be required to ensure the continued effectiveness of the database system.**

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| To be completed |
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