**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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| Link: https://github.com/matthewsides/Database |
| The evidence for this criteria can be found in the "Database" repository under the heading "ERD", which essentially explains what an entity relationship diagram is as well as showing an example which shows the design of a relational database system, also explaining and linking to the tools used to create said ERD that contains over four interrelated tables. The README.md documentation also has a section that briefly explains the scenario in the instance as to what relationship the ERD is illustrating. |

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

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| Please use this section to provide all appropriate, valid and checked http Links that point to your evidence; use multiple lines to separate multiple links |
| Please provide a short (between 3 to 8 well considered, fully proofread and reflected sentences) explanation that justifies why the evidence/links you have provided is suitable as evidence of this requirement  TO DO (you can leave it blank now, we are going to address this un future sessions) |

**Implement a query language into the relational database system.**

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| Link: https://github.com/matthewsides/Database |
| The evidence may be found in the "Database" repository "README.md", under the headings SQL-Data base and ERD which goes into detail on an ERD and SQL code based around a scenario and in general. Whilst in the repository an SQL code file can be found with SQL code based around the ERD and a scenario covered in the README.md. The README.md also goes into detail the tools used for the coding and making (Development) of the ERD. This constitutes as evidence since query language has been implemented into a relational database system. |

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

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| Link: https://github.com/matthewsides/Project4-Countdown/blob/master/README.md |
| This is evidenced in the "Project04" repository, under the headings "test plan-before and "test plan-after" as the tables evidence the testing of a system against user and system requirements, ensuring that the system was functional and if problems were encountered how they were dealt with (fixed). |

**Produce technical and user documentation.**

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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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**Implement a fully functional database system which includes system security and database maintenance.**

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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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**Assess the effectiveness of the testing, including an explanation of the choice of test data used.**

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| Link: https://github.com/matthewsides/Project4-Countdown/blob/master/README.md |
| This is evidenced under the "Testing" heading and subheading "Test Plan Evaluation" in the README.md documentation in the repository "project04-countdown" on GitHub. This is applicable to the criteria as it evaluates and assess the effectiveness of the test plan (testing) and includes an explanation of the choice of test data and data type applied and used. |

**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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**Assess the effectiveness of the design in relation to user and system requirements.**

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

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