**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/LukeShead/Databases/blob/master/README.md#below-is-the-erd-of-the-database-that-i-will-create> |
| This ERD shows how I used draw.io to create an ERD so that I can look at user requirements by creating 5 different tables. |

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

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| <https://github.com/LukeShead/Databases/blob/master/README.md#evidence-screenshots> |
| 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 |

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

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| <https://github.com/LukeShead/Databases/blob/master/README.md#code-i-used-in-order-to-build-the-database> |
| 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 |

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

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| <https://github.com/LukeShead/Databases/blob/master/README.md#test-plan> |
| 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 |

**Produce technical and user documentation.**

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| <https://github.com/LukeShead/Databases/blob/master/README.md#the-user-manual> |
| 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 |

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

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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 |

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

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| 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 |

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

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| 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 |

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

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| 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 |

**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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| 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 |

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

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| 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 |

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

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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 |