**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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| 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 |

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

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

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

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**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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**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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