**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.**

|  |
| --- |
| <https://github.com/SDearing/Database#entity-relationship-diagram>  <https://github.com/SDearing/Database#data-dictionaries>  <https://github.com/SDearing/Database#user-stories> |
| First link leads to my entity relationship diagram which contains five interrelated tables  The second link leads to my data dictionary as my design technique.  The third link leads to my user requirements for my database. |

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

|  |
| --- |
| <https://github.com/SDearing/Database#forms-and-reports-for-database>  <https://github.com/SDearing/Database#validation-in-my-database> |
| The first link leads to screenshots of the forms for each table as the user interface for my data base and screenshots of reports for each table as proof for the querying across multiple tables and output of data  The second link leads to how I validated data in my database. |

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

|  |
| --- |
| <https://github.com/SDearing/Database#sql-code> |
| This link leads to multiple examples of SQL commands, how they worked and how I used them in my database. |

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

|  |
| --- |
| <https://github.com/SDearing/Database#test-plan>  <https://github.com/SDearing/Database/blob/master/TestPlanDatabase.xlsx> |
| This link leads to a screenshot of my test plan, where I outlined every test I conducted, the result of the test and any action taken after the test.  The second link leads to a download link for the test plan document |

**Produce technical and user documentation.**

|  |
| --- |
| <https://github.com/SDearing/Database#the-user-manual> |
| This link leads to my technical and user documentation for my database. |

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

|  |
| --- |
| 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 fully functional database system which includes system security and database maintenance.**

|  |
| --- |
| 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) |

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

|  |
| --- |
| 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) |

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

|  |
| --- |
| 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  A link to your TASK 7 in my sessions:   * Assess the effectiveness of the testing, including an explanation of the choice of test data used.   Explain all your test plan, was it good? Why? What would you change and why?  TBD |

**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.**

|  |
| --- |
| 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) |

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

|  |
| --- |
| 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) |

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

|  |
| --- |
| 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) |

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

|  |
| --- |
| 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) |