**Taflen Flaen i fynd ar Asesiad**

**Assessment Front Sheet**

| Cytunaf mai fy ngwaith i yw’r gwaith hwn ac nid oes unrhyw lên ladrad, neu unrhyw ran arall wedi’i lunio’n annheg  I agree that my work is my own and has not been plagiarised or otherwise unfairly produced. | |
| --- | --- |
| **Rhif ID Myfyriwr/** Student ID: |  |
| **Rhaglen/** Programme: | **FdSc Computing (Software Development)**  **BSc (Hons) Applied Software Engineering** |
| **Teitl y Modiwl /** Module title | Database Design & Management |
| **Teitl a Rhif yr Asesiad /**  Assessment title & number | Assignment 1 of 3  Relational databases |
| **Dyddiad ac amser Cyflwyno /**  Submission date and time | 11th January 2024 23:59h |
| **Dyddiad Blaenlythrennau /**  IV Date and Tutor Initials |  |

| **Sylwadau’r Marciwr Cyntaf /** First Marker Comments | |
| --- | --- |
|  | |
| **Targed Datblygu /** Developmental Targets: |  |

| **Sylwadau’r Ail Farciwr /** Second Marker Comments | |
| --- | --- |
|  | |
| **Targed Datblygu /** Developmental Targets: |  |

| **Nodwch y drafodaeth rhwng y marciwr 1af a’r 2il farciwr os ydi’r Categori a Ddyfernir yn wahanol /**  Note the discussion between 1st and 2nd marker if the grade awarded differs: |
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|  |

| **Gradd gytunedig terfynol /** FinalAgreed Grade |  |
| --- | --- |
| **Noder:** Fel cosb am gyflwyno gwaith yn hwyr, y radd rifiadol uchaf a gyflwynir am asesiad a gyflwynir ar ôl y dyddiad cau yw 40%. Mae cyflwyno gwaith cwrs yn hwyr yn golygu y byddwch yn derbyn gradd o 0%. Marciau dros dro ydynt nes bod Bwrdd yr Arholwyr Allanol yn cadarnhau’r marciau yn ystod mis Mehefin.  **Note:** A cap of 40% will be applied to assessments submitted up to 1 week after the submission deadline. More than one week late will result in a 0% grade being awarded. All marks remain provisional until ratified by the External Board of Examiners. | |

| **Briff yr Asesiad / Assessment Brief** |
| --- |
| Nifer o eiriau a gwerth yr aseiniad (gwiriwch eich Dogfen Cwrs /  Word Count and Weighting |
| Mae’r aseiniad yn gyfartal i **20%** o’r modiwl cyfan. Nifer o eiriau ar gyfer yr aseiniad hwn yw **2000** gair.  The assignment is weighted at **20%** of the complete module. The word count for this assignment is **2000** words.  Fe ddylai myfyrwyr geisio ateb yr HOLL gwestiynau (os yn berthnasol)  Students should attempt ALL questions (if applicable)    Dyma aseiniad **unigol**.  This is an **individual** assignment. |
| Mae'r aseiniad hon yn mynd i'r afael â'r y Canlyniadau Dysgu canlynol /  This assignment addresses the following Learning Outcomes: |
| **Canlyniadau Dysgu 1 / Learning Outcome 1** *-* Analyse the data requirements of a system from a scenario.  **Canlyniadau Dysgu 2 / Learning Outcome 2** - Develop a design and a relational model for a given scenario. |
| Dangos i’r myfyriwr beth sydd angen ei wneud i gyflawni’r canlyniadau dysgu  Indicate to the student what they need to do to achieve the learning outcomes |
| **Scenario**  **Dental practice**  The practice surgeries are located in North Wales. The practice wants to have its records computerised and you have been given the job of designing and implementing a database for this purpose. The following scenario gives details of the organisation of the practice and its information requirements that are available to you so far.  The dental practice has four branches: Llandudno, Rhos-On-Sea, Conwy and Colwyn Bay. Details of the branch along with full postal addresses and phone numbers are filed by the receptionist of the practice.  A number of staff are employed by the practice; these include surgery manager, Dentists, Hygienists, receptionists and a number of cleaners. Details of the different jobs and job descriptions, salary ranges etc. are filed as well as names, addresses, phone numbers, start dates etc. of all staff.  The patients must register themselves, or by a parent/guardian in one of the practice surgeries and they always visit the same surgery. Their names, addresses, phone numbers and medical details are currently kept on record at that surgery.  Prior to the visit, the patient has to book an appointment. The receptionist will check the availability of the Dentist or hygienist prior to completing the booking. Every time a patient visits the surgery, details of the visit are recorded. These include: date and time of appointments, the attending Dentist/hygienist, any diagnoses, advised treatment and any drugs prescribed.  Each appointment costs £30; each drug in the prescription costs £6.  **Produce design documentation**  Using the scenario above you are to design a database. This will include the development of conceptual data modelling covering the rules of Normalisation up to 3rd Normal Form, an entity relationship model with logical relationships (you must list any assumptions), and a data dictionary, which includes the fundamentals.  All together 10 hours (20%) LO 1, LO 2  Submission should be via Google Classroom electronic copy, by the submission date. |

| **FdSc** | **Distinction** | **Merit** | **Pass** | **Pass** | **Fail** | **Fail** |
| --- | --- | --- | --- | --- | --- | --- |
| **Categorical mark** | **A\*\*/ A\*/A+ / A / A-**  **97 – 89 – 83 – 77- 69** | **B+ / B / B-**  **66 – 63 – 59** | **C+ / C / C-**  **56 – 53 – 49** | **D+ / D / D-**  **46 – 43 – 39** | **E+ E E-**  **36 – 33 – 27** | **F1 F2 F3 F4**  **19 – 9 2** |
| **Unnormalised to First Normal Form**  **(10)** | Evidence of unnormalised list that has been produced from the scenario and rules for First Normal Form has been displayed including an excellent guided walkthrough. | Adequate evidence of unnormalised list that has been produced from the scenario and rules for First Normal Form has been displayed including an adequate guided walkthrough. | Fair evidence of unnormalised list that has been produced from the scenario and rules for First Normal Form has been displayed including a fair guided walkthrough. | Less than fair evidence of unnormalised list that has been produced from the scenario and rules for First Normal Form has been displayed including a less than fair guided walkthrough. | Poor evidence of unnormalised list that has been produced from the scenario and rules for First Normal Form has been displayed including a poor guided walkthrough. | Little or no evidence of unnormalised list that has been produced from the scenario and rules for First Normal Form have been poorly displayed with little or an inadequate guided walkthrough. |
| **First Normal Form to Second Normal Form**  **(10)** | Evidence of First Normal Form list that has been produced from the scenario and rules for Second Normal Form has been displayed including an excellent guided walkthrough. | Adequate evidence of First Normal Form list that has been produced from the scenario and rules for Second Normal Form has been displayed including an adequate guided walkthrough. | Fair evidence of First Normal Form list that has been produced from the scenario and rules for Second Normal Form has been displayed including a fair guided walkthrough. | Less than fair evidence of First Normal Form list that has been produced from the scenario and rules for Second Normal Form has been displayed including a less than fair guided walkthrough. | Poor evidence of First Normal Form list that has been produced from the scenario and rules for Second Normal Form has been displayed including a poor guided walkthrough. | Little or no evidence of First Normal Form list that has been produced from the scenario and rules for Second Normal Form have been poorly displayed with little or an inadequate guided walkthrough. |
| **Second Normal Form to Third Normal Form**  **(10)** | Evidence of Second Normal Form list that has been produced from the scenario and rules for Third Normal Form has been displayed including an excellent guided walkthrough. | Adequate evidence of Second Normal Form list that has been produced from the scenario and rules for Third Normal Form has been displayed including an adequate guided walkthrough. | Fair evidence of Second Normal Form list that has been produced from the scenario and rules for Third Normal Form has been displayed including a fair guided walkthrough. | Less than fair evidence of Second Normal Form list that has been produced from the scenario and rules for Third Normal Form has been displayed including a less than fair guided walkthrough. | Poor evidence of Second Normal Form list that has been produced from the scenario and rules for Third Normal Form has been displayed including a poor guided walkthrough. | Little or no evidence of Second Normal Form list that has been produced from the scenario and rules for Third Normal Form have been poorly displayed with little or an inadequate guided walkthrough. |
| **Data Model**  **ERD**  **(20)** | The ERD designs will be correct overall and most of the cardinality or optionality, within the relationships will be correct. | Good ERD designs with only minor omissions or may have missed some of the cardinality or optionality, within the relationships. | The ERD designs will cover the basics but may include incorrect cardinality or optionality, within the relationships. | Poor ERD designs with major omissions and/or incorrect cardinality or optionality, within the relationships. | Limited ERD design that does not evidence enough to satisfy the brief. | Very poor or no ERD design. Does not satisfy the brief. |
| **Data Model**  **ERD**  **Walkthrough**  **(10)** | The ERD designswalkthrough will be correct overall and most of the cardinality or optionality, within the relationships will be correct. | Good ERD designs walkthrough with only minor omissions or may have missed some of the cardinality or optionality, within the relationships. | The ERD designs walkthrough will cover the basics but may include incorrect cardinality or optionality, within the relationships. | Poor ERD designs walkthrough with major omissions and/or incorrect cardinality or optionality, within the relationships. | Limited ERD design walkthrough that does not evidence enough to satisfy the brief. | Very poor or no ERD design walkthrough. Does not satisfy the brief. |
| **Data Dictionary**  **(20)** | Relevant entities and attributes modelled in an efficient manner | Relevant entities and attributes however modelling may need minor adjustments. | Mostly relevant entities and attributes, modelling has some merits but may need some adjustments. | Some relevant entities and attributes, modelling has some merits but needs improvement. | Poor entities and attributes, not fully relevant. Modelling shows little thought. | Insufficient or largely irrelevant submission. |
| **Data Dictionary**  **Walkthrough**  **(10)** | Relevant entities and attributes modelled in an efficient manner and spoken about in the walkthrough. | Relevant entities and attributes however modelling may need minor adjustments and spoken about in the walkthrough. | Mostly relevant entities and attributes, modelling has some merits but may need some adjustments and spoken about in the walkthrough. | Some relevant entities and attributes, modelling has some merits but needs improvement and has been spoken about in the walkthrough. | Poor entities and attributes, not fully relevant. Modelling shows little thought and not spoken well in the walkthrough.. | Insufficient or largely irrelevant submission and not spoken very well about in the walkthrough. |
| **Reference and Bibliography**  **(5)** | Excellent/ comprehensive referencing and bibliography. | Appropriate referencing and bibliography. | Adequate referencing and bibliography. | Limited referencing and bibliography. | Inadequate referencing and bibliography. | Little or no referencing and bibliography. |
| **Presentation, grammar and spelling**  **(5)** | Exceptional presentation logically structured, using correct grammar and spelling. | Good presentation, logically structured, using correct grammar and spelling. | Orderly presentation, competently structured, and correct grammar and spelling. | Weak presentation, competently structured and acceptable grammar and spelling. | Poor presentation, structure, grammar and spelling. | Unacceptable presentation, structure, grammar and spelling. |