**UNIVERSITY CENTRE SOMERSET**

**Computing and Internet Technologies**

Assessment Cover Sheet and Feedback  
2019 / 2020

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| **Qualification** | | | **Module Code and Title** | |
| BSc (Hons) Computing and Digital Technologies  FdSc Computing and Digital Technologies | | | SCDT44 Databases and Information Systems | |
| **Student Name(s) and Number(s)** | | | **Module Tutor** | |
|  | | | Bradley Chinn | |
| **Date Issued** | | **Submission Date** | | **Return Date** |
| 27/03/2020 12:00 | | 14/05/2020 15:00 | | 03/07/2020 12:00 |
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| **Assignment Number** | 2 of 2. This assignment is worth 50% of the overall module. | | | |
| **Assignment Title** | Coursework Two – Database System and Presentation | | | |

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| **Module Learning Outcomes**  *To achieve the outcomes the evidence must show that the learner is able to:* | |  | **Task no.** |
| C1 | Design and develop a relational model and implement a database solution for organisational information requirements. |  | 1 |
| C2 | Apply appropriate data analysis and data management tasks. |  | 1 |
| D1 | Apply logical thinking in the development of a relational model. |  | 1 |
| D2 | Develop and apply appropriate life-long professional skills including presenting to an audience. |  | 1 |

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| **Word Count of Submission** | Equiv. 2000 words |
| **Student Declaration** | |
| This work was prepared entirely by myself in accordance with Open University’s Prevention of Academic Dishonesty Code of Practice.  Learner signature: Enter your scanned signature here Date: DD/MM/YYYY hh:mm | |

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| **Student Feedback** |
| See attached feedback sheet.  Tutor signature: Enter your scanned signature here Date: DD/MM/YYYY hh:mm |

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| **Assignment Task(s)** | |
| **Task no.** | **Task details** |
| **Task 1** | You have been provided with a hospital dataset in an Excel spreadsheet on Blackboard. This structure contains relevant data, but this has not currently been fully analysed by the data team to produce a more optimised and efficient way of structing and storing the data.  You have been tasked with creating a technical report to show the full analysis, design, implementation and testing of a new optimised relational database.  In additional, the relational database needs to be able to provide the following data analysis and queries:   1. Names of all patients and corresponding insurance number in alphabetical order by Name. 2. Names of all patients whose insurance ID ends in 42 into ascending order. 3. Full Name, address and name of staff of all patients. 4. All the staff details who have prescribed medication without an appointment 5. All staff names who have been trained in Popology. 6. Change the name of physician Allan Fitzgerald to Allan Cross 7. Names of patients that have or have had appointments with a doctor. 8. The count and total cost of all Lineology procedures in descending order. 9. The sum cost of all minor surgery procedures for all patients. 10. The average cost of a Boneology Procedure in ascending order.   Please use the following structure as a guideline for the technical report:   * Database Requirements * Rationale for a Relational Database * Normalisation of Dataset (Excel Spreadsheet) * Database Design (Entity Relationship Diagram and Data Flow Diagram) * Database Implementation (Evidenced by Exporting SQL) * Query Design (Show SQL Queries 1-10 in design view) * Query Testing (Show SQL Queries 1-10 in run view) * References   Using your technical documentation, you will be required to professionally demonstrate your solution to the client. |

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| **Sources of Information** |
| Date, C. J. (2012) *Database design and relational theory: normal forms and all that jazz*. Sebastopol: O’Reilly  Date, C. J. (2013) *Relational theory for computer professionals*. Sebastopol: O’Reilly  Greco, S., Molinaro, C. and Spezzano, F. (2012) *Incomplete Data and Data Dependencies in Relational Databases.* Morgan & Claypool Publishers  Halpin, T. and Morgan, T. (2008) *Information Modelling and Relational Database.* 2nd edn*.* Burlington, MA:Morgan Kaufmann. |

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| **Submission Requirements** |
| 1. Check the marking criteria to ensure your assessment meets the demands of the assessment task(s). 2. Complete the student information on the first page of this document and save. 3. Copy on paste the rest of your assignment to underneath this coversheet. 4. Name this document file using the following format:   SCDT44 \_CW2\_*StudentNumber\_FirstName\_LastName*.docx  (replace the *placeholders* with your student number, first and last name respectively) 5. Go to the Turnitin UK and use the upload facility there to submit this document (which includes your assignment) to the relevant module. |

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| **IMPORTANT INFORMATION** | |
| * Please stay within the limits of the word count stated at the top of assignment brief. Any additional content over the word count limit (plus or minus 10%) will be disregarded and not be assessed at all.  All work should be submitted online via Turnitin.Please ensure that you submit your assignment on the right submission slot for each module.It is your responsibility to check that you can access Turnitin and Blackboard properly. If your college student account is locked, please contact ITU on 01823 366 354 or email them to ITHelpdesk@btc.ac.uk and request to have your account unlocked, but please ensure you allow plenty of time to do this, do not leave everything until the last day of your deadline.If there are circumstances where you need to submit your assignment other than online, please discuss your needs with the module tutor and alternative arrangements could be made so that you can submit your coursework within the set deadline.Regulations allow you to submit coursework up to 6 working days late. A penalty of deducting 10% will be applied for each day an assignment is late, with a maximum penalty of deducting 60% from your final mark for the late assignment. Any assignment submitted later than 6 days with be awarded a mark of zero. |

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| Numeric Grade | Descriptor  (Class Band) | Undergraduate Grading Criteria | | | | |
| Design of Relational Database | Development of Relational Database | SQL Analysis of Relational Database | Presentation | Structure and Sources |
| 80-100 | Outstanding  (Upper Distinction) | A full design methodology implemented to an industry-standard including all relevant designs for the Entity Relationship Diagram and Data Flow Diagram. | A full development methodology implemented to an industry-standard including all relevant tables to 3rd normalised form. | SQL Queries have been designed and tested to professional standard showing evidence of all queries applied to this standard. | Outstanding presentation of professional quality. Outstanding engagement, pace and body language. | Structure and Sources are of professional publication quality. |
| 70-79 | Excellent  (Lower Distinction) | A full design methodology implemented to an excellent standard including all relevant designs for the Entity Relationship Diagram and Data Flow Diagram. | A full development methodology implemented to an excellent standard including all relevant tables to 3rd normalised form. | SQL Queries have been designed and tested to an excellent standard with minor implementation issues. | Presentation is engaging and informative. Speech is enthusiastic, clear, audible and well-paced without reliance on notes  Appropriate body language | Structure of the report is in chronological order with excellent use of headings.  All citations have been incorporated properly into the text  All references listed properly in the reference list |
| 60-69 | Very Good (Commendation) | A full design methodology implemented to a very good standard including all relevant designs for the Entity Relationship Diagram and Data Flow Diagram with a few minor errors. | A full development methodology implemented to a very good standard including all relevant tables to 3rd normalised form with a few minor errors. | SQL Queries have been designed and tested to a very good standard with some errors with certain queries. | Presentation is engaging and informative. Speech is mainly clear, audible and well-paced with only minor exceptions  Mainly appropriate body language | Structure of the report is in chronological order with very good use of headings but not including all relevant subheadings, contents page and front cover.  Only minor errors in incorporating citations into the text  Only minor errors in incorporating references into the reference list |
| 50-59 | Good/Satisfactory  (Upper Pass) | A design methodology implemented to a good standard including a few relevant designs for the Entity Relationship Diagram and Data Flow Diagram which are slightly unclear. | A full development methodology implemented to a very good standard including all relevant tables to 3rd normalised form with a few unclear errors. | SQL Queries have been designed and tested to a good standard with an adequate approach to the queries. | Presentation is informative. Speech is sometimes clear, audible and well-paced  Body language is adequate | Structure of the report is in good order with good use of headings but not including all relevant subheadings, contents page and front cover.  A few errors in incorporating citations into the text  A few errors in incorporating references into the reference list |
| 40-49 | Marginal Pass / Satisfactory (Lower Pass) | A design methodology implemented to a satisfactory standard including a relevant designs for the Entity Relationship Diagram and Data Flow Diagram which are unclear. | A development methodology implemented to a satisfactory standard including relevant tables which are not fully normalised (3NF). | SQL Queries have been designed and tested to a satisfactory standard with all queries implemented with errors throughout the process. | Presentation is somewhat informative. Speech is rarely clear, audible and well-paced  Body language sometimes displays disinterest | Structure of the report is in poor order with poor use of headings and not including all relevant subheadings, contents page and front cover.  Some errors in incorporating citations into the text  Some errors in incorporating references into the reference list |
| 20-39 | Clear Fail  (Fail) | Design methodology implemented doesn’t include any diagrams which are clear. | A development methodology which hasn’t been normalised effectively to clearly show all relevant tables. | SQL Queries have been designed and tested incorrectly. | Presentation is uninformative and lacks structure. Speech is regularly unclear, inaudible or poorly paced  Body language displays disinterest | Structure of the report is non-existent with no use of headings.  Many errors in incorporating citations in text  Many errors in incorporating and reference list. |
|  | Nothing of Merit  (Fail) | No evidence of design methodology for the case study. | No evidence of development implementation for the case study. | No evidence of SQL queries for analysis to take place. | Presentation is incomplete, uninformative and has very poor structure. Speech is unclear, inaudible or poorly paced  Body language displays great disinterest | Structure and References have not been incorporated in accordance with University guidelines. |