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| **BTEC National Extended Diploma in** **Information Technology** | | |
| **Assignment no: 3of 3**  **Assessment Title: Implementing& Testing** | | |
| Assessor: Trevor Till | Student: | Group: L3 Yr2 |
| Unit Number:18 | Unit Title: Database Design | |
| Hand out date: 26/11/19  Resubmission authorised by:  (BTEC only) | Hand in date: 14/1/20  Resubmission hand in date: | Date handed in:  Date handed in: |

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| http://images.google.co.uk/url?source=imgres&ct=tbn&q=http://www.thelookoutcroyde.co.uk/images/images_surf_1.jpg&usg=AFQjCNFlM3vn3hqr6OjX_OC7Ypkcbr8EHA**Scenario – Surf Shop**  **Client Objectives**  The client would like to start using a database for marketing purposes to be able to record customer orders, to keep customer contact details and to be able to analyse sales trends.  **Task 1: (P3, P4, P5, P6, M4)**  Use your ERD to create tables, appropriate validation on the tables. Create input forms based on the tables. Populate the tables. Create multi-table queries that can produce relevant reports that are needed according to the requirements specification. Create reports based on the queries so that these can be printed out.  **Task 2: (P3, P4, P5, P6, M4)**  Design an appropriate HCI based on the needs of the users of the database. The HCI will probably be menu driven to open Access forms and reports. Some of the reports must be based on multi-table queries. Create an autoexec query so that your menu form opens automatically when Access opens.  **Task 3: (M2, M3)**  Create a query listing all customer orders with product details. Export this query to M/S Excel so that it can be analysed numerically using spreadsheet features. When the analysis has been done, import the spreadsheet information into M/S Access as a new table.  **Task 4: (P7)**  Create a test plan for black box testing the database. It should have relevant test data to test for normal, boundary, invalid and extreme data wherever data is input to the database.  **Task 5: (D2)**  Review the operation of the database by completing a fitness for purpose review against the requirements spec. |

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| **What to hand in:**   1. Your Access database. 2. Your Excel Spreadsheet with the Surf Shop data export 3. Screenshots of the import and export process for Task 3. 4. Your test plan, results and screenshots of the tests. 5. Fitness for purpose review report. |

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| **How to hand in your assessment**  This assessment must be uploaded to the VLE by the hand in date on the front of the assignment brief. If you have a valid reason why you will not be able to hand in the work on time you will need to fill out and hand in an AE form to your assessor or the Head of School. |

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| **Student declaration:**  I have read the Assignment Submission Procedure. I agree that this is my own work or my own work and that of other members of my group. It has not been copied (plagiarised) from any other source e.g. the internet, a book, another student or group of students. I know that I may FAIL this assignment if the Head of School proves that this is not my own work. | | | |
| Student signature |  | Date: |  |

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| **Student feedback on what you liked and/or disliked about this assessment.** | |
| **Answer Yes or No to the questions.** | |
|  | Yes / No |
| I enjoyed the task. |  |
| I understood the task. |  |
| The deadline was realistic. |  |
| I had enough support. |  |

For staff use only.

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| **Internal Verification** | This assessment has been verified and form IV8 completed: | IV name: | IV signature: | Date: |

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| **SMOG index:** |  |

Test for readability on scenario and tasks only OR workbooks tasks. Appropriate scores are: L3 = 16; L2 = 13/14; L1 = 11/12; entry level = 9/10

Link here: <http://www.readabilityformulas.com/free-readability-formula-tests.php>

**Assessor marking grid**

**Student name:**

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| Grading criteria | Grading criteria | Achieved  Not submitted  Fail  Resubmission | Comments/Feedback | Target date  for resubmission  (BTEC FE only - within 15 working days of receipt of results of assessment) |
| P3 | create and populate a database |  |  |  |
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| P4 | create features in data entry forms to ensure validity and integrity of data |  |  |  |
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| P5 | perform queries using multiple tables and multiple criteria |  |  |  |
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| P6 | include an advanced feature in a database design |  |  |  |
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| P7 | test a relational database |  |  |  |
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| M2 | import data from an external source |  |  |  |
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| M3 | export data to an external source |  |  |  |
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| M4 | implement an automated function. |  |  |  |
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| D2 | evaluate a database against the specified user need. |  |  |  |
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| **General comments and feedback on English and maths**  This is for the overall comments and well dones.  This is for the comments on grammar, spelling and maths; what was done well and areas for improvement (– in line with the college marking strategy). |

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| ***Actual Grade*** | ***Grading criteria*** | *P1* | *P2* | *P3* | *M1* | *D2* |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ***Achieved?*** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Please note that the grade that you have been awarded is subject to confirmation following internal verification and external sampling by the Awarding Body.

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| I certify that the evidence submitted for this assignment - either via the VLE or other method - is the learner’s own. The learner has clearly referenced any sources used in the work. I understand that false declaration is a form of malpractice. |

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| Assessor signature: | Date marked: |