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| **Btec National Extended Diploma Level 3 in** **IT** | | |
| **Assignment no: 18.1**  **Assessment Title: Features of a relational database** | | |
| Assessor: Trevor Till | Student: | Group: Level 3 Yr 2 |
| Unit Number: 18 | Unit Title: Database Design | |
| Hand out date: 12/11/19  Resubmission authorised by:  (BTEC only) | Hand in date: 8/12/19  Resubmission hand in date: | Date handed in:  Date handed in: |

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| **Scenario**  “Surf Shack” an online retail shop are developing their product base and need to make sure that their junior designers understand why relational databases are important and what features of relational databases must be used in their designs.  **Task:**   1. You need to create a presentation that can be used that explains why relational databases are an efficient method of data storage and retrieval. Define what entities, attributes and relationships are, what the different degrees of relationship are, and the benefits of databases 2. It would be useful to consider: benefits of the relational model, eg reduced data redundancy; normalisation (first, second and third normal forms), how the database can represent ERDs and relationships. Referential integrity, the use of primary keys and foreign keys. cascading updates and deletes to ensure data integrity. 3. As the presentation is to junior developers, it is important that it also illustrates how the construction of a database can be made much more effective when normalisation is used during the design process; discuss the sorts of problems/errors that could occur in the database if normalisation is not carried out at the design stage. |

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| **What to hand in:**  1. a presentation that shows the benefits of using a relational database. |

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| **How to hand in your assessment**  e.g. This assessment must be handed into / uploaded to the VLE assignment page 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.**  Option 1 – delete this box if not using. | |
| **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. |  |

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| **Student feedback on what you liked and/or disliked about this assessment.**  Option 2– delete this box if not using. |

For staff use only.

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| **Internal Verification** | This assessment has been verified and form IV8 completed: | IV name:  Emma Wellington | IV signature:  Emma Wellington | Date:  02/09/19 |

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| **SMOG index:** | 17.1 |

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) |
| Code goes in here. | Description  goes in here. | Code goes in here – see above. | Feedback on individual grading criteria / performance criteria goes in here. | Target date for resubmission goes in here if required. |
| P1 | describe the purpose and features of a relational database |  |  |  |
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| M1 | explain referential integrity and the purpose of primary keys in building the relationships between tables |  |  |  |
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| D1 | discuss how potential errors in the design and construction of a database can be avoided |  |  |  |
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| **General comments and feedback on English and maths** |

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| ***Actual Grade*** | ***Grading criteria*** | *P1* | *M1* | *D1* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ***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: |