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| http://www.cooperstc.com/index_htm_files/25897.png | **Coopers**  OCR Cambridge TEC (Certificate/Diploma) in IT  **Unit 23 – Database Design** | **Grade Awarded by: \_\_\_\_\_\_\_**  **Date Awarded: \_\_\_\_\_\_\_\_\_\_** Grade: PASS/MERIT/DISTINCTION |

##### Unit 23 - Assignment Feedback – Sarah Taylor – 17-12-2013

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| **TASKS & LEVEL** | | **ACTIVITIES** | | | | | | | | | | | | | | | | | | | | | | | **FEEDBACK** |
| **LO1 - Understand the features of relational database** | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Task 1 – (P1.1)** | | What is a database? Give examples. | | | | | | | | | | | | | | | | | | | | | | |  |
| **Task 2 – (P1.2)** | | Describe the database objects. Give examples. | | | | | | | | | | | | | | | | | | | | | | |  |
| **Tables** | | | **Queries** | | | | | | | | | **Forms** | | | | | | | **Reports** | | | |
| **Task 3 – (P1.3)** | | Why use naming conventions? Give examples. | | | | | | | | | | | | | | | | | | | | | | |  |
| **Tbl\_name** | | | **Qry\_name** | | | | | | | | | **Frm\_name** | | | | | | | **Rpt\_name** | | | |
| **Task 4 – (P1.4)** | | What are datatypes? Give examples. | | | | | | | | | | | | | | | | | | | | | | |  |
| **Autonumber** | | **Text** | | | | | **Number** | | | | | **Date/time** | | | | | | **Currency** | | | **Boolean** | |
| **Task 5 – (P1.5)** | | What are Primary Keys and Foreign Keys? Give examples. | | | | | | | | | | | | | | | | | | | | | | |  |
| **Primary Key** | | | | | | | | | | | | | | **Primary Key** | | | | | | | | |
| **Task 6 – (P1.6)** | | What are the differing database relationships? Give examples | | | | | | | | | | | | | | | | | | | | | | |  |
| **1-1** | | | | | | | **1-M** | | | | | | | | | | | **M-M** | | | | |
| **Task 7 – (P1.7)** | | What are filed properties? Give examples. | | | | | | | | | | | | | | | | | | | | | | |  |
| **Field Name** | **Field Size** | | | | **Format** | | | **Input** | | | **Mask** | | | | **Default Value** | | | | **Validation Rule** | | | **Lists** |
| **L02 - Be able to design, create and populate a relational database** | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Task 1 (P2.1)** | | You need to explain that you have understood what the purpose of the new Relational Database system is and the audience who will be using it | | | | | | | | | | | | | | | | | | | | | | |  |
| **Purpose** | | | | | | | **Audience** | | | | | | | | | | | **Functional Requirements** | | | | |
| **Non Functional Requirements** | | | | | | | **Design Objectives** | | | | | | | | | | | **House Style** | | | | |
| **Task 2 (P2.2)** | | Describe exactly how the Relational Database is going to work. Explain all the inputs, how these are going to be processed and what outputs there will be | | | | | | | | | | | | | | | | | | | | | | |  |
| **Input** | | | **Processes** | | | | | | | | | | | | | | **Output** | | | | | |
| **Task 3 (P2.3)** | | Briefly explain what Normalisation is and why it is beneficial to perform it | | | | | | | | | | | | | | | | | | | | | | |  |
| **Task 4 (M1.1)** | | Using the un-normalised dataset, normalise to the 3rd Normal Form, justifying all the entities (tables) and attributes during each stage (click to view potential data fields) | | | | | | | | | | | | | | | | | | | | | | |  |
| **Task 5 (P2.4)** | | Produce a data dictionary for the 3 tables identified from Task 4 | | | | | | | | | | | | | | | | | | | | | | |  |
| **Task 6 (M1.2)** | | Justify the identification of the entities (tables) | | | | | | | | | | | | | | | | | | | | | | |  |
| **Input masks** | | | | | | **Default value** | | | | | | **Validation rule** | | | | | | | | **Lists** | | |
| **Task 7 (P2.5)** | | Produce an Entity Relationship Diagram for the Relational Database | | | | | | | | | | | | | | | | | | | | | | | The lines need to connect the ones that are the same, product ID to product id etc.  And needs a justification as to why these relationships on the end. |
| **Task 8 (P2.6)** | | Design a user interface to access parts of database   * + Include colours, company logo, etc… | | | | | | | | | | | | | | | | | | | | | | |  |
| **Task 9 (P4.1)** | | Design a variety of forms for adding and amending data within the Database | | | | | | | | | | | | | | | | | | | | | | |  |
| **Task 10 (P3.1)** | | Based on the data dictionary designs (Task 5) for the tables within your database, create them using an appropriate software | | | | | | | | | | | | | | | | | | | | | | |  |
| **verification and validation routines;** | | | | | | | | | **input masking** | | | | | | | | | **dropdown or combo boxes** | | | | |
| **checks for completeness (field sizes)** | | | | | | | | | **data consistency** | | | | | | | | | **data redundancy** | | | | |
| **Task 11 (P3.2)** | | Based on the database table structures, you need to explain exactly which fields link to each other | | | | | | | | | | | | | | | | | | | | | | |  |
| **Task 12 (M1.3)** | | Explain HOW you have enforced the referential integrity between the tables | | | | | | | | | | | | | | | | | | | | | | |  |
| **Task 13 (P3.3)** | | Show evidence of data inserted into the tables created | | | | | | | | | | | | | | | | | | | | | | |  |
| **Task 14 (P4.2)** | | Create the forms based on the designs produced for your database | | | | | | | | | | | | | | | | | | | | | | |  |
| **Task 15 (M2)** | | Design and create forms which will utilise the use of: | | | | | | | | | | | | | | | | | | | | | | |  |
| **Sub-forms** | | | | | | | **Calendar** | | | | | | | | | | | **Others** | | | | |
| **Task 16 (D1)** | | Customise and/or implement a user interface allowing access to all areas of the database | | | | | | | | | | | | | | | | | | | | | | |  |
| **L03 - Be able to test a relational database** | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Task 1 (P5.1)** | Create a table as shown to describe and use a range of different queries within your database that utilise the multiple linked tables. | | | | | | | | | | | | | | | | | | | | | | | |  |
| **At least three different logical operators** | | | | | | | | | | | | | | **At least three different range operators** | | | | | | | | | |
| **Parameter Queries** | | | | | | | | | | | **Crosstab queries** | | | | | | | | **Calculated fields** | | | | |
| **Task 2 (P5.2)** | Create the queries based on the designs produced within your database | | | | | | | | | | | | | | | | | | | | | | | |  |
| **Task 3 (M3.1)** | Sketch the reports you are going to use | | | | | | | | | | | | | | | | | | | | | | | |  |
| **Task 4 (M3.2)** | Create the reports based on the designs produced for your database | | | | | | | | | | | | | | | | | | | | | | | |  |
| **Task 5 (P6.1)** | Create a macro that will print from a form produced within your database | | | | | | | | | | | | | | | | | | | | | | | |  |
| **Task 6 (P6.2)** | Customise the toolbar/menu system currently used within the database | | | | | | | | | | | | | | | | | | | | | | | |  |
| **Task 7 (P7.1)** | Explain how you have met the end user requirements. Explain how the functionality and operations work. | | | | | | | | | | | | | | | | | | | | | | | |  |
| **Task 8 (P7.2)** | Create a test table to cover the main areas of your database | | | | | | | | | | | | | | | | | | | | | | | |  |
| **Housestyle** | | | | | | | | **Queries** | | | | | | | | | | | **Forms** | | | | |
| **Reports** | | | | | | | | **Navigation** | | | | | | | | | | | **Switchboard** | | | | |
| **Task 9 (M4.1)** | Produce an questionnaire that will aid user feedback evaluation on your database that focuses on the case study presented to you in L02 | | | | | | | | | | | | | | | | | | | | | | | |  |
| **Task 10 (M4.2)** | Get 3 user feedback responses using the questionnaire | | | | | | | | | | | | | | | | | | | | | | | |  |
| **Task 11 (M4.3)** | Analyse feedback responses gathered | | | | | | | | | | | | | | | | | | | | | | | |  |
| **Task 12 (D2.1)** | Produce a self-evaluation of your database that focuses on the case study presented to you in L02 | | | | | | | | | | | | | | | | | | | | | | | |  |
| **Purpose and Audience** | | | | | **User Requirements** | | | | | | | | | | | | **How does the operation / functionality help the end users** | | | | | | |
| **How I met the purpose** | | | | | **How I have helped the audience** | | | | | | | | | | | | **How the database can be improved** | | | | | | |