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| G:\Brooke Weston Logos\Bitmap Images\Logo Only\BW Logo 2007 Shape GIF.gif | **Brooke Weston Academy**  OCR Level 3 Nationals in ICT  **Unit 06 – Advanced Databases** |

##### Unit 06 – Structured Study Lesson for Week 4

**Lesson plan guidance: Weeks 4 (AO2)**

**Area of the Specification:**

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| **Assessment**  **Objective** | **Pass** | **Merit** | **Distinction** |
| **AO2**  Produce the database according to the design | Candidates produce a relational database that allows a user to add, delete, and edit records using forms.  Primary key and foreign keys are defined and tables are linked.  Data validation and customised error messages may have been set up.  There are at least four data types used and at least 60 records have been entered in the database.  The database will be **mostly** similar to design. | Candidates produce a working relational database that allows a user to add, delete, and edit records using forms.  Primary key and foreign keys are defined, tables are linked, and data validation and customised error messages have been set up.  There are at least four data types used and at least 60 records have been entered in the database.  The database will be **similar** to the design. | Candidates produce a working relational database that allows a user to add, delete, and edit records using forms.  Primary key and foreign keys are defined, tables are linked, and data validation and customised error messages have been set up.  There are at least four data types used and at least 60 records have been entered in the database.  The database will **exactly** match the design. |

**Lesson related objectives:**

Students to be able to:

1. Implement a database system based on the designs using various different skills and techniques within the software application

**The Task: (make use of the PowerPoint and any other Word or PDF documents provided)**

***Task 1 (P / M / D)*** – Based on the data dictionary designs (AO1) for the tables within your database, create them using an appropriate software

* Remember you need to use **only** the fields you have documented within your data dictionary
* Provide screenshot evidence of any features used during the creation of the tables
  + verification and validation routines;
    - input masking
    - dropdown or combo boxes
    - checks for completeness (field sizes)
    - data consistency
    - data redundancy

***Task 2 (P / M / D)* -** Based on the database table structures, you need to explain exactly which fields link to each other

* Justify and explain your choices made
* Provide screenshot evidence of any relationships created between the tables
* Explain HOW you have **enforced the referential integrity** between the tables

Use the **“Unit 06 – AO2 – Sample Customer”** for data that can be used for the customer table

***Task 3 (P2.3)*** – Show evidence of data inserted into the tables created

* **Input up to 60 records in the all the tables created**

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| This is a homework task and you are expected to spend at least an hour on it. |

**What you should do (additional guidance):**

In preparation for next week, you need to do the following:

1. Complete all tasks
2. Ensure the table have a variety of data, this will assist greatly for the remainder of tasks within this unit of coursework