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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** | Student Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Grade Awarded:**  **PASS / MERIT / DISTINCTION** |

##### Unit 06 - Assignment Marking Grid

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| Assessment Objectives | Grading criteria | | | |
|  | **To achieve a pass grade the evidence must show that the learner is able to:** | **To achieve a merit grade the evidence must show that, in addition to the pass criteria, the learner is able to:** | **To achieve a distinction grade the evidence must show that, in addition to the pass and merit criteria, the learner is able to:** | **GRADE** |
| **AO1**  Design a relational database to meet the needs of an organisation | Candidates produce a design for a working relational database.  The design includes purpose, audience, at least three tables showing the entities and attributes and an ERD diagram.  The entities and attributes **may not** be correct.  The database design may be normalised to 3rd normal form.  There will be **some** attempt to define the data validation required | Candidates produce a design for a working relational database.  The design includes purpose, audience, at least three tables showing the entities and attributes, ERD diagram, user interface and forms.  The entities and attributes are **appropriate**.  The database design is normalised to 3rd normal form.  **Most** of the data validation required has been defined. | Candidates produce a design for a working relational database.  The design includes purpose, audience, at least three tables showing the entities and attributes, ERD diagram, user interface, forms and reports.  The entities and attributes are **all** correct.  The designs for reports are for reports both printed and on screen.  The database design is correctly normalised to 3rd normal form.  **All** of the data validation required has been defined. |  |
| **Design a relational database to include: - purpose of database / audience of database / minimum of 3 tables / complete an ERD (entity-relationship) diagram for the database / normalise data to the 3rd normal form / a user interface to access all parts of the database / forms for adding/amending data / designs for reports both printed and on screen / data validation** | | |
| **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 and 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. |  |
| **Produce a relational database in line with user design to include: - forms to add, edit and delete records / primary keys / foreign keys / linked tables / at least 4 data types eg Boolean, text, number, date / data validation including input masks / customised error messages / data for at least 60 records across the tables** | | |
| **AO3**  Interrogate the database | Candidates create queries that include: at least three different logical operators, at least three different range operators and calculated fields using multiple criteria on linked tables.  **Some** queries produced may not give the correct results. | Candidates create queries that include: at least three different logical operators, at least three different range operators, calculated fields, parameter queries and crosstab queries, using multiple criteria on linked tables.  **Most** queries produced give the correct results. | Candidates create queries that include: at least three different logical operators, at least three different range operators, calculated fields, parameter queries and crosstab queries, using multiple criteria on linked tables.  **All** the queries give the correct results and are efficient. |  |
| **Use a number of simple and complex queries to include: - queries combining fields from at least two tables / calculated field in complex queries / at least three different logical operators (eg AND, OR, NOT, LIKE) / at least three different range operators (eg <,>,<>,=) / parameter queries / crosstab queries** | | |

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| **AO4**  Create a user Interface | Candidates produce a user interface that gives access to the main parts of the database.  The interface **may** lack structure.  They create at least one form for each table. | | Candidates produce a user interface that gives access to the main parts of the database.  The interface **mostly** matches the design.  They create at least one form for each table and a customised form. | | Candidates produce a user interface that accesses all parts of the database.  The interface **matches** the design.  They create at least one form for each table, and a customised form and at least one sub form. |  |
| **Amend the start up options to display the user interface**  **Produce a user interface that: - accesses the database parts / switches between each section**  **Forms: - customise at least one form / create forms for each table / create sub-forms based on main forms** | | | | |
| **AO5**  Produce reports | Candidates produce reports to include at least one customised report and at least one report that is sorted on more than one field.  The reports **may** not match the designs. | | Candidates produce reports to include at least one customised report, at least one report that is sorted on more than one field and at least one report that is grouped on one or more fields.  The reports **mostly** match the designs. | | Candidates produce reports to include at least one customised report, at least one report that is sorted on more than one field, at least one report that is grouped on one or more fields and at least one report that shows grouped and overall summaries.  The reports **match** the designs. |  |
| **Reports to include: - at least one report customised / at least one report sorted on more than one field / at least one report grouped on one or more fields / at least one report displaying grouped and overall summaries** | | | | |
| **AO6**  Produce User Documentation and  Technical Information | Candidates produce a user guide that covers **some** of the processes that allow a user to make effective use of the database.  They define the database structure, data relationships and a data dictionary in the technical documentation. | | Candidates produce a user guide, using graphics and screenshots, that covers **some** of the processes that allow a user to make effective use of the database.  They **clearly** define the database structure, data relationships and a data dictionary in the technical documentation | | Candidates produce a user guide, using graphics and screenshots that covers **most** of the processes that allow a user to make effective use of the database.  They **clearly** and **accurately** define the database structure, data relationships and a data dictionary in the technical documentation. |  |
| **Produce user documentation**  **Produce a technical guide for the database** | | | | |
| **AO7**  Test the database | Candidates provide a **basic** test plan that covers some of the checks as outlined in the Knowledge, Understanding and Skills. | | Candidates provide a test plan that covers **most** of the checks as outlined in the Knowledge, Understanding and Skills. | | Candidates provide a test plan that covers most of the checks as outlined in the Knowledge, Understanding and Skills.  Changes are made as appropriate to the database. |  |
| **Produce a test plan covering the following checks: - database meets original design brief / validation / forms / queries / reports**  **Make changes if appropriate** | | | | |
| **AO8**  Database evaluation | Candidates provide a **brief** and not always accurate evaluation of the effectiveness of the database in relation to user needs | | Candidates provide a **detailed** and **accurate** evaluation of the operation of the database and how well it meets user needs.  Candidates will **provide** a detailed description of improvements for the user | | Candidates provide a **comprehensive** evaluation of how well the database meets the specification.  Candidates will **suggest** detailed improvements and recommendations to refine the solution. |  |
| **Evaluate the database against user needs (purpose and audience) and database specification**  **Describe improvements needed for the user** | | | | |
| **Assessor Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_** | | **Assessor Signature: \_\_\_\_\_\_\_\_\_\_\_** | | **Marking Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** | | |
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