## ICT @ Brooke Weston Academy

Unit 06 (AO4) – Advanced Databases

**Create a user interface**

**Scenario**

Cube Systems have been very successful with their sales of customised computers and software. This has resulted in the need to store large quantities of data and produce a variety of well structured reports. Knowing the power of Relational Databases to store the large amounts of data and produce reports, they have decided to develop a Relational Database for their customers and sales.

REMEMBER:

* Customers choose the configuration of computer based on multiple choices such as the speed of the processor, size of the RAM, monitor or hard drive and software.
* Certain options do attract discounts and customers have delivery options such as next day, 2 day or 4 day which all have different price points – if the customer spends over a certain price point they will get free delivery.

Cube systems would like a fully functional and automatic Relational Database system which could incorporate:

* ***A customer page*** – where customers can be added, edited and viewed
* ***A customer orders page*** – where customer orders can be viewed
* ***A product page*** – where all the products for sales can be added, edited and viewed
* ***A ordering page*** – where all the orders can be added, edited and viewed
* ***A invoice page*** – where the user selects what the customer requires and prints the invoice
* ***A reporting page*** – where reports such as the analysis of:
  + Orders of any particular product
  + Profit made on each product
  + Tracking of customer orders and purchases
  + Calculating totals of ordered product over a given period
  + Customers traced based on any other information required

Focusing on the business, you need to produce a database that will provide a user friendly interface to interact with the functionality created within a relational database, covering the following **4** tasks within this case study:

* 1. Leszynski Naming Convention – Standardising your Database
  2. Advanced Forms
  3. Switchboard
  4. Implementation of Database

Basically, you need to:

**Introduction**

1. What is this case study about?
2. Summary thescenario from AO1
   * Briefly introduce the **business you have selected** and ***describe the range of information you wish the database to manage***
     + ***Consider the type of information that the database could use***

**Main Investigation**

**Advanced Forms – *(Task 1)***

1. Design and create forms which will utilise the use of:
   * Subforms
   * Calendar
   * Others

Provide screenshot evidence for creating the data entry forms and ensure validity and integrity of data

**Switchboard – *(Task 2)***

1. Customise and/or implement a user interface allowing access to all areas of the database
   * Produce annotated screen shots showing **how** you have done this and **why**
     + This could be to make it look more professional – inclusion of logos, house style, etc…
     + Add functionality (access to more areas/different options)

**Implementation of Database - *(Task 3)***

1. Illustrate evidence (screenshots) in the form of using a consistent and appropriate styling in the design and construction of a database for:
   * Naming of all database forms
   * Designs of all database forms
   * Design of automated function
   * Consistent use of a house style