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| Name of Centre: The College of Haringey, Enfield and North East London | | | **Database Project Development Learner achievement (please circle)** *NB: All learner achievement is provisional until confirmed at the AVA Awards Board*. | | | | | |
| **Level Achieved:** | **L3** | | | | |
| **Achievement**  *(Level 3 units only)* | P | M | | | D |
| **Resubmission?** | **Y** | | | **N** | |
| **Database Implementation Learner achievement (please circle)** *NB: All learner achievement is provisional until confirmed at the AVA Awards Board*. | | | | | |
| **Level Achieved:** | **L3** | | | | |
| **Achievement**  *(Level 3 units only)* | P | M | | | D |
| **Resubmission?** | **Y** | | **N** | | |
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| **Title of Access to HE Diploma: Access to HE Diploma Computing** *(e.g. Science)* | | | | | | | | |
| **Unit title(s):**  **Database Project Development**  **Database Implementation** | | **Unit code(s):**  **CBB486**  **CBB487** | | | | | | |
| **Learner:** | | Tutor/Assessor: Magdalena Siwek | | | | | | |
| **Description of Assignment: Scenario**  John’s sandwich shop has just expanded due to popular demand. Mia the owner is planning to open a further three shops. Mia has decided that in order for her business to expand further a computerised system is required to manage all the shops’ orders. She has heard something about databases but she has no idea what they are or how they will benefit her business.  Mia currently stores all regular orders in an Excel spreadsheet. She finds the spreadsheet difficult to use and keeps having to type in the same data for each customer order, which has led to data entry errors. The spreadsheet does not effectively retrieve information to resolve the various issues that occur and does not offer her any reporting facilities for printing off documents such as invoices and outstanding payments. The spreadsheet will be provided to you for further analysis.  You are an IT student who visits John’s sandwich shop on a regular basis, she has told you about her situation and you have offered your help in developing database software to deal with John’s sandwich shop orders. In return, you will receive free sandwiches for life.  Mia’s current spreadsheet records identifies each order and the date ordered. She also identifies each customer uniquely and have some contact details including the name, address, and postcode and contact number. She identifies the delivery details including the delivery address, postcode, date and time to deliver. She also identifies the sandwich by code, description, price, quantity and then gives the total for each type of sandwich and a total. She also includes details on a form to tick if the order is paid. The staff operating the till would have a unique name that allows them to be assigned to each shop location.  Mia has indicated that she has the following requirements outlined on the next page:  **Input requirements**  **She would like forms to enter information about customer, order, sandwich and the shop. She would like the user to open all forms, reports and queries that have been created using a menu.**  It is important that the details are captured accurately and that good use is made of validation on **all** forms.  **Output requirements**  She would like a report that display all order that still require payment for outstanding orders. Also a report that displays an invoice for a particular customer invoice.  **NOTE: 10% discount is given to the customers when they spend over £50**  Both of these reports must be designed in accordance with the requirements.  **Design requirements**  A consistency of styling must be employed in order to create a professional image and to help users interact with the system. Consistency must extend to at least the following:   * Layout inc. forms, reports and use of logos etc. * Colours * Naming of tables and fields   **Task 1: Understand Client’s requirements**   * 1. Using the information in the scenario, you need to attend a meeting to see John’s shop’s with the Sandwich Maker, Clerk, Customer Driver and the Manager. Using the completed activity sheets in class for the Sandwich Maker, Clerk, Customer and Driver, provide a written summary of what you understand the project scope and objectives are so that you may agree them with the manager. Also, include in your written summary possible types of queries and reports you propose.  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | What do People do in Mia’s Sandwich Shop   |  |  | | --- | --- | | Customer Role | | | What does the Customer do? |  | | What information do they use (give and receive)? |  | | How do they use the information? |  | | Who do they pass the information to? |  | | Order Clerk Role | | | What does the order clerk do? |  | | What information do they use (give and receive)? |  | | How do they use the information? |  | | Who do they pass the information to? |  | | Sandwich Maker Role | | | What does the Sandwich Maker do? |  | | What information do they use (give and receive)? |  | | How do they use the information? |  | | Who do they pass the information to? |  | |   **Criteria covered Database Project Development:**  1.1. Research and plan project  **Task 2: Database Design**  Using the information in the scenario determine the tables to create, the fields to include. Produce a Normalised 3rd order form entity relationship diagram so that the client can then be given information on possible tables, fields you propose. [2.1]  **Criteria covered Database Project Development:**  2.1. Produce relevant design diagrams and corresponding documentation to show the proposed structures and processes.  **Task 3: Database Project Plan**  Following the meeting with John’s shop manager, produce a project plan that details the project milestones taking into account the time and other constraints, successfully planning to complete the project with realistic achievable timescales [1.2]  **Criteria covered Database Project Development:**  1.2. Negotiate a time schedule for the project and obtain relevant data taking into account time and other constraints.  **Task 4: Implement the proposed design**  This task will cover evidence for AC 3.1 for Database Project Development (DPD) and **all** the criteria for the unit Database Implementation (DI) unit.  For students who have chosen both units (Database Project Development and Database Implementation), you are to produce a database system based on your designs produced for Task 2. Remember to stick to your timescales mentioned in your project plan. [DPD 3.1]  For students who have chosen only the Database Implementation unit need only to complete the implementation as below, as this task will cover all the assessment criteria for the unit.  To produce the database system you need to:   1. Build the data structure as per the third Normalised form and ERD from your designs and create all tables. When creating the tables ensure you include integrity constraints appropriate to the field. [DPD 3.1] 2. Using the customers and sandwiches spreadsheets given, populate data from the spreadsheets into the relevant tables. 3. Create all queries that are required from the output specification. In addition, design and implement the queries below to enable the user to retrieve the following information:    1. Customer Records    2. Customer Orders    3. Most popular sandwich this year    4. Least popular sandwich 4. Create all the forms as outlined in the input requirements taking care to ensure consistency. Show how you have implemented any validation rules, input masks and dropdown boxes you identified in the design stage.    1. You will also need to create an input for customer orders that contains at least one sub-form (ideally 2 sub-forms) 5. Create a report that display all order that still require payment for outstanding orders. Also a report that displays an invoice for a particular customer invoice. Include all output requirements including the discount given to customers.   **Criteria covered for Database Project Development**  3.1. Produce a working system incorporating features as may be appropriate  **Criteria covered for Database Implementation:**  1.1. Build the data structure using tables to include a range of integrity constraints and data validation procedures.  1.2. Build the processing requirements using a range of queries, forms, reports and a menu structure.  2.1. Extract information from multiple tables using complex queries.  2.2. Update, append, delete, and create information, by using queries.  2.3. Display information from several tables on a customised form for a given specification.  2.4. Present information using reports  **Task 5: Test and review**  Once you have completed the database, you will need to make sure that the database is working correctly. You are required to create a test plan that tests the main database functionality. Include the test date, test number, test data, expected result, actual result, Pass/Fail. [DI 3.1, DPD 2.2]  Once you have created your test plan, you need to use this to test your database tables, queries and forms. [DI 3.1, DPD 4.1]  **Criteria covered for Database Project Development:**  2.2. Prepare an appropriate test plan.  4.1. Test the project using a test plan, identifying and recording any discrepancies.  **Criteria covered for Database Implementation:**  3.1. Plan, execute and document testing of the database system to ensure that it functions correctly and meets user requirements.  **Task 6: Project evaluation**  Write a report that examines the completed database and produce a detailed evaluation of how the finished product meets all the user needs and requirements as stated in Task 1 – Project specification. **[5.1]**  **Criteria covered for Database Project Development:**  5.1. Evaluate the final project against the agreed original requirements. | | | | | | | | |
| **Date set: 24/09/2021** | **Date for draft submission**  **(if applicable):** | | | **Date for final**  **submission: DPD 17/12/2021**  **DI 04/03/2021** | | | | |
| **Extension date**  **(if agreed):** | **Signed by Tutor/Assessor to agree extension:** | | | **Date**  **submitted:** | | | | |
| **Internal Moderation: Yes / No**  **Date:** | **Signed by internal moderator:** | | | **ON TIME / LATE** | | | | |
| **Learner declaration:**   The explanations and evaluations in this work have been developed and written by me.   I have not submitted material copied from the Internet, text books or other sources in place of my own thinking and writing.   When I have referred to the work of others I have done so to discuss, comment on or argue their ideas.   I have kept quotation and paraphrasing to an absolute minimum and only to support points I have made.   I understand that referencing the names of authors whose ideas I have used without including my own interpretation of those ideas, does not meet the assessment criteria and cannot attract the Pass, Merit or Distinction grades.   I have not copied the work of my peers. | | | | | | | | |
| **Learner comments:** *(please use this space to comment on any aspect of the assignment when handing in your work)* | | | | | | | | |
| **Signature:** | | | **Date:** | | | | | |

**TO THE LEARNER: Please attach this assignment brief to any written work you are handing in for assessment, or submit the brief as instructed.**

**YOUR WORK CANNOT BE ASSESSED UNLESS YOU HAVE SIGNED AND SUBMITTED THIS FORM**

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| **Level 3** | **Unit title: Database Project Development** | |
| **Learning outcomes** | | **Assessment criteria** |
| *This is what you will learn on the unit.* | | *This is what you must be able to demonstrate that you can do in your assignment in order to achieve the unit.* |
| **The learner will:** | | **The learner can:** |
| 1. Know how to research and plan the project, in consideration of time and any other constraints. | | * 1. Research and plan project   2. Negotiate a time schedule for the project and obtain relevant data taking into account time and other constraints. |
| 1. Be able to produce a design to meet the agreed project. | | * 1. Produce relevant design diagrams and corresponding documentation to show the proposed structures and processes.   2. Prepare an appropriate test plan. |
| 1. Be able to implement the proposed design. | | * 1. Produce a working system incorporating features as may be appropriate. |
| 1. Be able to test and review the application. | | * 1. Test the project using a test plan, identifying and recording any discrepancies. |
| 1. Know how to evaluate the overall project. | | * 1. Evaluate the final project against the agreed original requirements. |

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| **Level 3** | **Unit title: Database Implementation** | |
| **Learning outcomes** | | **Assessment criteria** |
| *This is what you will learn on the unit.* | | *This is what you must be able to demonstrate that you can do in your assignment in order to achieve the unit.* |
| **The learner will:** | | **The learner can:** |
| 1. Be able to implement a database system | | 1.1 Build the data structure using tables to include a range of integrity constraints and data validation procedures.  1.2 Build the processing requirements using a range of queries, forms, reports and a menu structure. |
| 2. Be able to manipulate information in the database | | 2.1 Extract information from multiple tables using complex queries  2.2 Update, append, delete, and create information, by using queries.  2.3 Display information from several tables on a customised form for a given specification.  2.4 Present information using reports. |
| 3. Be able to test a database system | | 3.1 Plan, execute and document testing of the database system to ensure that it functions correctly and meet user requirements. |

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| **Level 3 units only: Database Project Development**  Learners achieve a Pass if they meet all Level 3 Assessment Criteria for a unit. You will achieve a Merit or Distinction by meeting the following Grade Descriptors. Your tutor will give you feedback for all three grades. | | |
| **Grade Descriptor** | **Merit**  *(Choose one or more relevant grade components)* | **Distinction**  *(Choose one or more relevant grade components)* |
| **GD3: Application of Skills** | Apply appropriate techniques with **very good** levels of creativity and accuracy. | Apply appropriate techniques with **excellent** levels of creativity and accuracy. |
| **GD6: Autonomy / Independence** | makes **generally** sound judgements about how to complete work  specifies problems for completing work and **promptly seeks** clarification and/or guidance  responds promptly and effectively to guidance  demonstrates very good time-management | makes **consistently** sound judgements about how to complete work  specifies problems for completing work and **independently generates** and pursues solutions  works effectively with a high level of independence  demonstrates excellent time-management |
| **GD7: Quality** | The work taken as a whole, demonstrates a **very good** response to the demands of the brief/assignment. | The work taken as a whole, demonstrates an **excellent** response to the demands of the brief/assignment. |
| **MERIT:** *(e.g. To achieve a Merit your work will show…..)*  To achieve **Merit** for the unit **Database Project Development** your data base project must be created with **little or no assistance**, within the set time. The planning and design documents will demonstrate **very good** levels of organisation. The project must, **in general**, maintain the integrity of data**,** and set **mostly appropriate** relationships between database tables**.** You willdemonstrate **very good** level of creativity, accuracy, and analyticalskillsin the design stage of the project. In general, you are expected to create data model with **very good** level of efficiency applying normalisation techniques **on most of the data** in the design stage before starting the implementation of the data base. You have to produce sound and functional data base elementswithout significant errors. Meet very well all the requirements of the assignment and show quality, skills and independence of work which go **beyond** the requirements of the assessment criteria and what has been taught within lessons. | | |
| **DISTINCTION:** *(e.g. To achieve a Distinction your work will show…..)*  To achieve **Distinction** for the unit **Database Project Development** your data base project must be created completely **without assistance**, within the set time. The planning and design documents will demonstrate **excellent** levels of organisation. The project **must thoroughly** maintain the integrity of data and set **fully appropriate and accurate** relationships between database tables**.** You willdemonstrate **excellent** level of creativity, accuracy, and analytical skillsin the design stage of the project. You are expected to create data model with **excellent** level of efficiency applying normalisation techniques **on all data** in the design stage before starting the implementation of the data base. You have to produce sound and functional data base elementswithout errors. Meet very well all the requirements of the assignment and show quality, skills and independence of work which go **far beyond** the requirements of the assessment criteria and what has been taught within lessons. | | |
| **Level 3 units only: Database Implementation**  Learners achieve a Pass if they meet all Level 3 Assessment Criteria for a unit. You will achieve a Merit or Distinction by meeting the following Grade Descriptors. Your tutor will give you feedback for all three grades. | | |
| **Grade Descriptor** | **Merit**  *(Choose one or more relevant grade components)* | **Distinction**  *(Choose one or more relevant grade components)* |
| **GD3: Application of Skills** | Generally selects appropriate   * techniques   Applies appropriate   * skills * techniques   with **very good** levels of   * confidence * consistency * precision * accuracy * efficiency | consistently selects appropriate   * techniques   Applies appropriate   * skills * techniques   with **excellent** levels of   * confidence * consistency * precision * accuracy * efficiency |
| **GD7: Quality** | - taken as a whole, demonstrates a **very good** response to the demands of the brief/assignment. | - taken as a whole, demonstrates an **excellent** response to the demands of the brief/assignment. |
| **Grade Guidance:** Learners must carefully read the guidance below which is linked to the components above | | |
| **MERIT**  Throughout the data base **implementation and testing** tasks of the assignment (tasks 4 and 5), you have **to** demonstrate application of **appropriate** techniques with a **very good** level of creativity and accuracy. You will show a **confidence** in using **very good** **analytical skills** and **well developed data base technical skills** in support of creating a wide range of data structures, functions and user interface features with very good quality.  The data base implementation taken as a whole, will demonstrate a **very good response** to the demands of the assignment tasks 4 and 5. You have to create a data base with components which exhibit **high** levels of data integrity, efficiency. You have produced sound and functional data base components without significant errors | | |
| **DISTINCTION:**  Throughout the data base **implementation and testing** tasks of the assignment (tasks 4 and 5), you have **to** demonstrate application of **highly** **appropriate** techniques with a **very good** level of creativity and accuracy. You will show a **high confidence** in using **advanced** **analytical skills** and a **wide range of** **well developed data base technical skills** in support of creating a wide range of data structures, functions and user interface features with very good quality.  The data base implementation taken as a whole, will demonstrate an **excellent response** to the demands of the assignment tasks 4 and 5. You have to create a data base which components exhibit **outstanding** levels of data integrity, process efficiency and functional usability. You have produced a sound and functional data base components without errors. | | |

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| **Part A: Feedback on credit level (Database Project Development)** | | | | | | | | | | | | | | |
| **AC no** | | **Credit achieved (L3)** | | **Location of evidence** | | | **Tutor/Assessor comments on assessment criteria**  *(the assessor may also indicate on the work itself where each AC is met)* | | | | | | | |
| 1.1 | |  | |  | | |  | | | | | | | |
| 1.2 | |  | |  | | |
| 2.1 | |  | |  | | |
| 2.2 | |  | |  | | |
| 3.1 | |  | |  | | |
| 4.1 | |  | |  | | |
| 5.1 | |  | |  | | |
| Level achieved | |  | | Tutor/Assessor’s signature: | | | | |  | | Date: | |  | |
|  | | | | | | | | | | | | | | |
| **Resubmission** (if applicable) *If any of the assessment criteria for this assignment have not been met at Level 3, a resubmission may be permitted. Resubmission must follow the QAA guidelines and be permitted only once.* | | | | | | | | | | | | | | |
| Requirements for resubmission/new Task set: | | | | | | | | | | | | | | |
| Date Set: |  | | | | | Date due: | |  | | Date Submitted: | | | |  |
| Feedback on resubmission: | | | | | | | | | | | | | | |
| **Level achieved**  **after resubmission:** | | |  | | **Tutor/Assessor’s signature:** | | |  | | Date: | |  | | |
| **Part B: Feedback on grading** (Applicable only if all assessment criteria achieved at Level 3) | | | | | | | | | | | | | | |
| **Grade Descriptor** | | **Tutor/Assessor comments against grade descriptors** | | | | | | | | | **Grade indicator**  **(P/M/D)**  *Please enter the final grade on page 1 based on this grade profile e.g. PPM=P* | | | |
| **GD3: Application of Skills** | |  | | | | | | | | |  | | | |
| **GD6: Autonomy / Independence** | |  | | | | | | | | |  | | | |
| **GD7: Quality** | |  | | | | | | | | |  | | | |
| **Tutor/Assessor’s reason for final grade decision (if applicable):** | | | | | | | | | | | | | | |
| **Areas for development** *(how will the learner be able to use and improve on what they have learnt on this unit and the skills that they have used in their further studies?)* | | | | | | | | | | | | | | |
| **Part A: Feedback on credit level (Database Implementation)** | | | | | | | | | | | | | | |
| **AC no** | | **Credit achieved (L3)** | | **Location of evidence** | | | **Tutor/Assessor comments on assessment criteria**  *(the assessor may also indicate on the work itself where each AC is met)* | | | | | | | |
| 1.1 | |  | |  | | |  | | | | | | | |
| 1.2 | |  | |  | | |
| 2.1 | |  | |  | | |
| 2.2 | |  | |  | | |
| 2.3 | |  | |  | | |
| 2.4 | |  | |  | | |
| 3.1 | |  | |  | | |
| Level achieved | |  | | Tutor/Assessor’s signature: | | | | |  | | Date: | |  | |
|  | | | | | | | | | | | | | | |
| **Resubmission** (if applicable) *If any of the assessment criteria for this assignment have not been met at Level 3, a resubmission may be permitted. Resubmission must follow the QAA guidelines and be permitted only once.* | | | | | | | | | | | | | | |
| Requirements for resubmission/new Task set: | | | | | | | | | | | | | | |
| Date Set: |  | | | | | Date due: | |  | | Date Submitted: | | | |  |
| Feedback on resubmission: | | | | | | | | | | | | | | |
| **Level achieved**  **after resubmission:** | | |  | | **Tutor/Assessor’s signature:** | | |  | | Date: | |  | | |
| **Part B: Feedback on grading** (Applicable only if all assessment criteria achieved at Level 3) | | | | | | | | | | | | | | |
| **Grade Descriptor** | | **Tutor/Assessor comments against grade descriptors** | | | | | | | | | **Grade indicator**  **(P/M/D)**  *Please enter the final grade on page 1 based on this grade profile e.g. PPM=P* | | | |
| **GD3:**  **Application of Skills** | |  | | | | | | | | |  | | | |
| **GD7: Quality** | |  | | | | | | | | |  | | | |
| **Tutor/Assessor’s reason for final grade decision (if applicable):** | | | | | | | | | | | | | | |
| **Areas for development** *(how will the learner be able to use and improve on what they have learnt on this unit and the skills that they have used in their further studies?)* | | | | | | | | | | | | | | |