# **Higher Nationals**

# **Assignment Brief – BTEC (RQF)**

**Higher National Diploma in Computing**

|  |  |
| --- | --- |
| **Student Name /ID Number** | **Aaron Mascarenhas** |
| **Unit Number and Title** | **Unit 4 – Database Design & Development** |
| **Academic Year** | **2017- 2018** |
| **Unit Assessor** | **Gurjeet Singh Kohli** |
| **Assignment Title** | **Assignment 2 Design & Development of Sainsbury’s / Argos SQL Database System** |
| **Issue Date** | **18.03.2019** |
| **IV Name** | **Cameron Connick** |
| **Draft submission date** | **22.04.2019** |
| **Final submission date** | **06.05.2019** |
| **Re-submission date (if required)** |  |

**Plagiarism**

Plagiarism is a particular form of cheating. Plagiarism must be avoided at all costs and students who break the rules, however innocently, may be penalised. It is your responsibility to ensure that you understand correct referencing practices. As a university level student, you are expected to use appropriate references throughout and keep carefully detailed notes of all your sources of materials for material you have used in your work, including any material downloaded from the Internet. Please consult the relevant unit lecturer or your course tutor if you need any further advice.

**Student Declaration**

|  |
| --- |
| **Student declaration**  I certify that the assignment submission is entirely my own work and I fully understand the consequences of plagiarism. I understand that making a false declaration is a form of malpractice.  Student signature: Aaron Date: 25/03/2019 |

**Learning Outcomes and Assessment Criteria**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | Grading Criteria | Met | Grading Criteria | Met | Grading Criteria | Met |  |
| **LO3** | P4 |  | M4 |  |  |  |  |
|  |  |  |  |  |  |  |  |
| **LO4** | P5 |  | M5 |  | D3 |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

L

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Assessor Feedback:**  \*Please note that constructive and useful feedback should allow students to understand:   1. Strengths of performance 2. Limitations of performance 3. Any improvements needed in future assessments   Feedback should be against the learning outcomes and assessment criteria to help students understand how these inform the process of judging the overall grade.  Feedback should give full guidance to the students on how they have met the learning outcomes and assessment criteria. | | | | |
| **Grade:** | **Assessor Signature:** | | | **Date:** |
| **Resubmission Feedback:** | | | | |
| **Grade:** | | **Assessor Signature:** | **Date:** | | |

|  |
| --- |
| Submission Format: |
| Assignment 1 Submission:   1. The submission is in the form of an individual written report. This should be written in a concise, formal business style using single spacing and font size 12. 2. You are required to make use of headings, paragraphs and subsections as appropriate, and all work must be supported with research and referenced using the Harvard referencing system. 3. Please also provide a bibliography using the Harvard referencing system. The recommended word limit is 2,500–3,500 words, although you will not be penalised for exceeding the total word limit. 4. For the PowerPoint task please create a professional Presentation with all the comments in the notes section and structured in a logical way with key designs extensively explained and documented. 5. Submit the SQL Database as a zip file onto Google Classroom with your assignment.   Assignment 2 Submission:   1. 1,500 word report on the test justification 2. Produce either a 2 guides (technical and user) or produce 2 separate screencast videos |
| Unit Learning Outcomes: |
| **LO3** Test the systems against user and system requirements  **LO4** Produce technical and user documentation |
| Assignment Brief and Guidance: |
| **Case Study**  You have been employed as a **Junior SQL Database Consultant** for **Sainsbury’s Online sector**. The company has recently bought **Argos Pvt** and has planned that the logistics operations of these two companies should be combined.  As a junior Database consultant, you have been given a number of tasks to help with the creation of new business processes and map the already existing processes into a new system. The main elements for you to consider are that the strategic plan for Sainsbury’s Pvt is to develop and create a joint operations system which allows **Sainsbury’s** to utilise the existing logistics operations of Argos and combine the delivery systems to make the whole operations more efficient and ultimately save money on the operations to boost their share price in the current market.  This position will require you to have a look at existing business process documents to further develop your understanding of the business process to either amend or re-establish them for more efficiency.  It’s your own professional judgement on how to analyse the given artefacts and analyse them to produce system designs and plans to then implement a substantial system to hold information on orders from customers from both Sainsbury’s and Argos.  You have been asked by your manager to investigate the system requirements; design, and create/implement the joint SQL system.  **Things to remember:**  There are a number of things to remember when planning the design and implementation of your proposed solution. Items/products are the key element of an e-retailer, shoppers who pick items from the store or warehouse and people who eventually deliver the goods to the customer on the doorstep. Please make any reasonable assumptions based on the scenario if you not 100% sure on the assumptions you are making please speak to your Subject Tutor.  Attached herewith are various system documentations, for your consideration in this project.  **Task 1**  Once the system has been developed, you will test the system and your manager will complete a witness statement indicating how your tests are performing against user and system requirements.  You will produce a brief report assessing the effectiveness of the testing, including an explanation of the choice of test data used.   * Produce a Test Table with 15 test with screenshots.   **Task 2**  Lastly you will produce technical and user documentation which will be given to the company.  You want to provide some graphical representations for ease of reference in the technical guide, so you have decided to produce a technical and user documentation for a fully functional system, including diagrams showing movement of data through the system, and flowcharts describing how the system works.   * Produce 2 screencast videos * Produce Data Flow Diagrams * Produce Flowcharts |

|  |  |  |
| --- | --- | --- |
| **LO3** Test the systems against user and system requirements | |  |
| **P4** Test the system against user and system requirements. | **M4** Assess the effectiveness of the testing, including an explanation of the choice of test data used. |
| **LO4** Produce technical and user documentation | | |
| **P5** Produce technical and user documentation. | **M5** Produce technical and user documentation for a fully functional system, including diagrams showing movement of data through the system, and flowcharts describing how the system works. | **D3** Assess any future improvements that may be required to ensure the continued effectiveness of the database system. |

