**Submission cover sheet**

# and declaration

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Learner number:** | | **807135473** | **Learner name:** | | Alex Goulden | |
| **Unit code:** | | **ICTPRG425** | **Unit name:** | | **Use structured query language** | |
| **Assessment event number** | | **1** | **Assessment title** | | Portfolio | |
| **Learner declaration** | | | | | | |
| This assignment is my original work and no part of it has been copied from any other source except where due acknowledgement is made.  No part of this assignment has been written for me by any other person except where such collaboration has been authorised by the assessor concerned.  I understand that plagiarism in the presentation of the work, idea or creation of another person as though it is your own. Plagiarism occurs when the origin of the material used is not appropriately cited. No part of this assignment is plagiarised.  I understand that TAFE NSW is required to retain copies of all my completed assessments, where practical, for a period of 3 years (or in accordance with regulatory/licencing requirements) after the completion of my studies | | | | | | |
| **Learner Signature:** |  | | | **Date**: | | 2/7/2020 |

**Information Technology/Ultimo**

RTO 90003

|  |  |  |  |
| --- | --- | --- | --- |
| **Unit code** | ICTPRG425 | **Unit name and release number** | **Use structured query language (Release 1)** |

**Please note that TAFE NSW is required to retain copies of all completed assessments, where practical, for a *minimum* period of three (3) years (or in accordance with regulatory/licencing requirements) after the completion of a learner’s studies. *Refer to procedure to determine the retention period required.***

|  |  |  |
| --- | --- | --- |
| **Assessment Instructions** | | **This is assessment event number** 1 **of** 2 events for this unit |
| **Assessment overview** | **Practical tasks** | |
| **Instructions for Written Assessment** | Write your name and ID on each page of this assessment task  Fill and sign submission cover sheet and declaration  Add reference when necessary. | |
| **Submission instructions** | * Print the SQL file with your queries * Print this document * Delivery both files in class. | |
| **What do I need to do to achieve a satisfactory result?** | To successfully complete this assessment event **all questions** must be answered correctly | |
| **Due date** | Final printed version: Week 18 | |
| **Assessment feedback, review or appeals** | Feedback must be provided to you no later than 10 days after all assessment activities have been conducted.  If you want a review of your results or if you have any concerns about your results, you can contact the teacher/assessor or your Head Teacher.  You have three weeks from the date you receive your results in which to make an appeal and/or request a review.  You should receive a response within ten days of the receipt of the request.  Teachers and their Head Teacher will address any appeal in accordance with [Assessment Guidelines for TAFE NSW.](https://staff.tafensw.edu.au/policies-procedures/student-administration/assessment-guidelines/) | |

# Specific task instructions

In addition to the practical assessment questions you completed in term 1, complete the tasks below:

|  |
| --- |
| **Task 1**: |
| The following list is a sample ecommerce store - Northwind. You are required to design and build a database accordingly. You should create a database “testdb” and the tables as required: Categories, Suppliers, Products, Employees, Orders, OrderDetails, Shippers and Customers.  <https://docs.google.com/document/d/1T2yRrdsTJMXh5XKtQAJ5VOEhNNNsXo8Iike2e5kF6Zw/edit?usp=sharing> Queries   * Identify entities, attributes and relationships - draw an Entity Relationship Diagram specifying the attributes and relationships between Categories, Suppliers and Products.      * Analyse the data and adjust the columns accordingly (you may add columns, for instance). Identify the required columns, data types, keys, indexes and constraints - List the columns for each table and their respective data types and constraints. Make sure to include Primary key and foreign key where required.   Primary Key – Main ID identifier for table’s content  Foreign Key – Secondary ID identifier, for linked table’s content  Varchar(255) – Variable Character, text string with a maximum of 255 characters  Int – numerical value, used for ID’s, prices, inventory, ect.  Date – YYYY-MM-DD formatted date   * Create tables that implement the required elements using MySQL. Populate the tables with the information provided. Use the relevant naming conventions for database elements. Provide the Query for the creation of database and tables and insertion of values. |
| **Task 2**: write SQL statements that |
| * Use functions and operators.   SELECT \* FROM products  WHERE price > 20.00;     * Write and execute SQL sub-queries.   SELECT \* FROM products  WHERE supplierID IN (SELECT supplierID  FROM products  WHERE supplierID = 1);     * Alter the product table to include a column for product photo.   ALTER TABLE products  ADD Photo varchar(255); |
| **Task 3:** write SQL statements that |
| * Create and use views for the Products   CREATE VIEW "Prices above average" AS  SELECT ProductName, Price  FROM products  WHERE Price > (SELECT AVG(Price) FROM products); |
| **Task 4:** write SQL statements that |
| * Create and use a stored procedure to update an Employee. Use this stored procedure in your PHP page to update and show evidence.     UPDATE employees SET FirstName = '$firstname', LastName = '$lastname', BirthDate = '$birthdate', Photo = '$photo', Notes = '$notes' WHERE ID='$id'; |
|  |
| Submission:   * SQL script file and screenshots. |

|  |
| --- |
| Make sure you have written your name on each page of your submission before attaching the cover sheet and submitting to your teacher/assessor for marking |

**Assessment Feedback**

NOTE: This section must have the assessor signature and student signature to complete the feedback.

**Assessment Checklist**

All questions must be answered correctly in order to satisfactorily complete this assessment event

**Task 1** correct ☐ Yes ☐ No

**Task 2** correct ☐ Yes ☐ No

**Task 3** correct ☐ Yes ☐ No

**Task 4** correct ☐ Yes ☐ No

**Assessment outcome**

☐ Satisfactory

☐ Unsatisfactory

**Assessor Feedback**

☐ Was the assessment event successfully completed?

☐ If no, was the resubmission/re-assessment successfully completed?

☐ Was reasonable adjustment in place for this assessment event?

If yes, ensure it is detailed on the assessment document.

Comments:

**Assessor name, signature and date:**

|  |
| --- |
|  |

**Student acknowledgement of assessment outcome**

|  |
| --- |
| Would you like to make any comments about this assessment? |

**Student name, signature and date**

|  |
| --- |
| Alex Goulden 14/07/2020 |