

National Unit Details			
Code(s)		Title(s)	
ICTDBS403		Create Basic Databases	
ICTDBS502		Design a Database	
ICTWEB425		Apply SQL to extract and manipulate data	
Assessment Task			
Number	AT1	Title	Build Query Challenge

Section 1 – Assessment Task Overview and Description

Download the following files/documents:

- Build_Query_Challenge_ERD.pdf
- Build_Query_Challenge_SAMPLE_DATA.xlsx
- Build_Query_Challenge_DATA_DICTIONARY.pdf
- Build_Query_Challenge_QUERIES.pdf

Setup:

- Create a (**public**) git repo for your database & clone it into a suitable local dev environment.
- Create a **SINGLE** .sql file in your git repo, put **ALL the SQL** you write in this .sql script
- Add your name and student id to the top of the .sql script (it will **need to be COMMENTED** in the sql script.)
- Using Azure / AWS or another Cloud Service: Create (and configure as necessary) an SQL Server database.

Task 1.

1. Convert the provided ERD to a Relational Schema.
2. Follow the design as provided. Do **NOT** make design changes of any kind.
3. Add your Relational schema **in a COMMENT** block inside your .sql script

Commit your work in your Git repo with the **commit message** “**Task 1 Complete**” & push it to origin.

Task 2.

1. Based **directly** on your **Relational Schema** from task 1 and the provided **Data Dictionary**, write and execute the DDL to create your database.
2. Write and **SQL Query(s)** (not the GUI) to verify that all tables have been successfully created.

Commit your work in your Git repo with the **commit message** “**Task 2 Complete**” & push it to origin.

Task 3.

- Write and execute the DML to add the provided **SAMPLE DATA** into the to your database
- **Additional Data: You MUST also add yourself to the person based (e.g. student/client/customer)**

Commit your work in your Git repo with the **commit message** “**Task 3 Complete**” & push it to origin.

Task 4.

- **Write** and run each of the 3 queries outlined in the **Build_Query_Challenge_QUERIES.pdf**. document

Commit your work in your Git repo with the **commit message** “**Task 4 Complete**” & push it to origin.

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Task 5:

- Create a View based on Query 1 from Task 4

Commit your work in your Git repo with the **commit message** “Task 5 Complete” & push it to origin.

Task 6:

- Write test queries to prove your responses to **Task 4** are returning the correct/sensible results.
- E.g. to test that **select * from student** is returning the correct number of rows you could use **select count(*) from student** and check that the number in the count query is the same as the number of rows returned by the select * query.
- Provide a (short) written explanation of how each of your ‘test’ queries verifies that the related task 3 query is correct. Add these explanations as COMMENTS after each test query in your .sql script.

Commit your work in your Git repo with the **commit message** “Task 6 Complete” & push it to origin.

Section 2 – Assessment Task Submission Information	
Submission Details	Due date:
	<p>Submit the following in the Assessment submission portal on the Swinburne LMS.</p> <ol style="list-style-type: none"> 1. Hyperlink to your (public) git repository containing your .sql file. 2. Your .sql file <p>Submissions received after the submission date must be approved by your teacher.</p>

Summary of Evidence to be Submitted
<input type="checkbox"/> Link to your public Git Repo (containing your .sql file)
<input type="checkbox"/> Your .sql file.
<p>The task will be assessed as satisfactory when all of the required evidence listed has been satisfactorily demonstrated.</p> <p>* If applicable, for graded units, the task must be satisfactorily completed before marks will be allocated. Refer to your unit outline for more information.</p>

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Section 3 – Assessment Task Criteria and Outcome	
All items/criteria must be demonstrated satisfactorily to achieve this task. The items/criteria for this activity will be assessed as S – Satisfactory or US – Unsatisfactory.	
Items/criteria	
1.	Task 1 - Relational Schema accurately reflects the ERD
2.	Task 2 - DDL executes cleanly (no errors) and accurately reflects the Relational Schema and Data Dictionary.
3.	Task 3 - DML executes cleanly (no errors) and accurately reflects the Sample data provided and contains the relevant student details.
4.	Task 4 - Queries execute cleanly (no errors) and accurately meet the specifications reflected in the provided Queries document.
5.	Task 5 – DDL to create view executes cleanly, and creates the view as specified.
6.	Task 6 - Testing Queries and Comments make sense and demonstrate the ‘sensitivity’ of your task 4 queries.
7.	General - Git repo shows appropriate contents and commit history.

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Section 4 – General Assessment Information	
Decision Making Rules	<p>Each activity in the assessment task must be satisfactorily completed for the task to be assessed as satisfactory.</p> <p>Every task must be satisfactorily completed to be assessed as competent in the unit.</p> <p><i>* For graded units, competence must be demonstrated before a mark can be given.</i></p>
Plagiarism	<p>There are serious penalties for plagiarism that may include repeating a new assessment task or being withdrawn for the unit / course.</p> <p>Students must ensure that all assessments are their own work (or group work and clearly noted as such).</p> <p>Refer to https://www.swinburne.edu.au/current-students/manage-course/exams-results-assessment/plagiarism-academic-integrity/plagiarism-misconduct/</p>
Reasonable Adjustment	<p>Students may request reasonable adjustment for assessment tasks.</p> <p>Reasonable adjustment usually involves varying:</p> <ul style="list-style-type: none"> the processes for conducting the assessment (eg: allowing additional time, varying the venue) the evidence gathering techniques (eg: oral rather than written questioning, use of a scribe, modifications to equipment) <p>However, the evidence collected must allow the student to demonstrate all requirements of the unit.</p> <p>If you have any other issue that may impact your ability to undertake the assessment, please discuss with your teacher.</p>
Re-submission (where tasks are not satisfactorily completed)	<p>Assessment tasks that are not satisfactory can be resubmitted up until the end of the unit as scheduled on the Unit Outline. The timing on this may depend on the equipment required for this assessment task.</p> <p>Resubmissions received after the scheduled unit end date may not be accepted unless approved by the teacher prior to the end date.</p> <p>Note: Assessment tasks submitted for the first time after the unit end date as scheduled in the Unit Outline will not be assessed and the student should re-enrol into the unit.</p>
Special consideration	<p>Students may apply for Special Consideration where personal circumstances have adversely affected their task result or ability to undertake an assessment. A Special Consideration form can be completed prior to, but no later than 3 days after, the date of assessment and submitted to the relevant Manager.</p>
Work Health & Safety	<p>Activities may require the use of equipment or participation in group exercises. If the teacher identifies any unsafe activity or potentially dangerous situations, the teacher can stop the assessment at any time.</p>