IT5507
Assignment 2

Due: due on 4pm, Friday 5th May via Moodle via Moodle

Submission requirements:

1. You are required to update and submit the **Data Dictionary Table** that you have done in assignment 1.
2. MS word document, which includes **the SQL scripts** for

   1) **CREATE TABLE SQL:** These commands build the database in SQL Server. There should be a high degree of consistency between your design (data dictionary table) and the database you build. **You are required to create tables and attributes based on the data dictionary tables.**

   2) **INSERT SQL:** These commands populate each table with at least 5 records in every "One" table, at least 10 records in every "Many" table.
      - Customer Table should have a city column and at least one customer should live in Wellington city
      - At least, one of the customers should have more than two vacations.
      - At least, one of the customers should have more than two activity bookings.
      - Staff table should have their salary records.
      - Activity should have activity_Name and cost.

   3) This command will display all Customers' names, resort names, check-in dates and checkout dates for the customers who are living in **Wellington**.

   4) This command will display the **most demanding resort name.**

   5) This command will display the **total number of activities** that each customer took and the **total activity cost** that each customer spend **per vacation.** (Use vacation id as a group).

   6) This command will display the **total number of vacations** that each customer has, and the **total number of days** that each customer stays.

   7) **Update SQL** This command will increase all staff salary by 10%

   8) **Delete SQL** This command will delete all the customer records who are living in Wellington. (Don't run this script)

Weight:
This whole assignment is worth **20%** of your final mark for this course.

Requirements to pass the course:
To pass this course, you MUST attempt all assessments and gain a minimum of 50% grade overall.

Learning Outcome
3. Create a simple database that includes tables, columns, primary keys, foreign keys and simple queries.

Purpose

The purpose of this assignment is to develop a database system based on the data model that you created.

The database system should be consistent with the design, which is one of the marking criteria. It means you may have to change data types of the data dictionary to give the consistency.

Also, the student are required to manipulate data using SQL statements to meet the various business demands, which includes retrieving, deleting and updating data.

Important rules (Read carefully):

Submission: No paper copies! Do not e-mail files to the lecturer.
You MUST submit your assignment to Moodle under the link " Assignment 2"
Submission Box. Only assignments submitted to Moodle WILL be accepted for demonstration and marking.

Late submission: The course is designed to emulate a real job situation.
What if you are working for a professional company as a programmer, and you do NOT submit your final product to your client by the agreed deadline, then what will happen?

It will occur penalty to be paid out, and your company's reputation will be damaged. Then how your boss will feel about you?
With the same reasons, any LATE submission will NOT be accepted UNLESS, you can provide an official document to back up the reason that prohibits you from doing so.

How would you do this assignment?

You do not have to follow this approach, but it is recommended as you realized that working in the IT industry requires you to be time sensitive and produce the best ROI (Return On Investment). Hence it is best to identify the best way to approach each project.

1. Read this assignment paper and underline keywords with a highlighter.
You would be shocked to find out many students ended up producing something different from what they were asked to do with their assignments. Identifying what you need to do is the first thing you must do before you jump to develop something. So please do take time to understand the requirements of this assignment first.

2. Check the ERD diagram and Data Dictionary you created
You are creating a database based on your analysis. To create the database, you will need to use the ERD diagram and data dictionary you created.

3. You must utilize your lab hours to work on your assignment.
We realise you are not only taking this paper but three other papers. Therefore, we designed the lab sessions to support you to complete your assignment.

The lab exercises are designed to teach you the basics to do the assignment. Your lecturer would offer whiteboard sessions to help you to understand the requirements of the assignment.

4. Check what you have done with the marking guide.

Your lecturer provides you with this marking guide. Your assignment will be marked according to this guide. Don't you think it would be best for you to check what you have done with the guide before you finalise and submit the assignment?

5. Submit via Moodle

Your lecturer clearly demands all the assignments must be submitted to Moodle. If you email or hand in your hard copy to your lecturer, your assignment will NOT be marked.

Marking Guide

Note: Total score will be calculated out of 20%.
A mark will be deducted from the allocated marks for each incorrect or missing answer.

Student Name

Task Description					
SQL Script	1	**CREATE TABLE** commands to build the database in SQL Server. There should be a high degree of consistency between your design (ERD) and the database you are building	5		
	2	**Insert Testing Data (**5 minimum records in every "One" table and 10 minimum records in every Many side tables) **Five data entry requirements**	5		
	3	**QUERY_ Wellington** to retrieve all Customers who are living in **Wellington**.	3		
	4	**QUERY_ Resort** to display the **most demanding resort name**	3		
	5	**QUERY_ Vacation** to display the **total number of activities** that each customer took and the **total activity cost** that each customer spends **per vacation.** (Use vacation id as a group).	3		
	6	**QUERY_ VacationDays** to display the **total number of vacations** that each customer has, and the **total number of days** that each customer stays	3		
	7	**UPDATE_Salary** to increase a staff's salary 10% in the STAFF table	3		
	8	**Delete customers** from Customer table to remove all customer all the customer records who are living in Wellington.	3		
Tables	1	Primary Keys	3		
	2	Foreign Keys	5		
Consistency with ERD	1	Data Type consistency Between Data Dictionary Table and Database	4		
		Total	40		