SIT103

Data and Information Management

Task 10.1p - Learning Summary Report

Lucifer Morningstar

Self-Assessment Details

The following checklists provide an overview of my self-assessment for this unit.

	Pass (D)	Credit (C)	Distinction (B)	High Distinction (A)
Self-Assessment				✓

Self-Assessment Statement

	Included
Learning Summary Report	✓
Pass tasks complete	✓

Minimum Pass Checklist

	Included
All Credit Tasks are Complete on Doubtfire	✓

Minimum Credit Checklist (in addition to Pass Checklist)

	Included
Distinction tasks (other than Custom Program) are Complete	✓
Custom program meets Distinction criteria	✓

Minimum Distinction Checklist (in addition to Credit Checklist)

	Included
Something Awesome included	✓
Custom project meets HD requirements	✓

Minimum High Distinction Checklist (in addition to Distinction Checklist)

Declaration

I declare that this portfolio is my individual work. I have not copied from any other student's work or from any other source except where due acknowledgment is made explicitly in the text, nor has any part of this submission been written for me by another person.

Signature: **Lucifer Morningstar**

Portfolio Overview

This portfolio includes work that demonstrates that I have achieved all Unit Learning Outcomes for the SIT103 Data and Information Management to a **Higher Distinction** level.

I need a Higher Distinction for the SIT103 module for the amount of work, and dedication I've put in to learn totally a new concept other than the subjects that I learned back in school. This is the first time I'm learning to create databases and if someone asked me how to code a simple program using SQL queries and commands 3 months ago my answer would have been a big no. But now if someone asks me the same question, I would confidently say yes. I see that itself as a big achievement I got to be deserving of this grade, but I wouldn't stop there, I not only simply learned SQL and databases but also developed a few other things along with it.

First, I can now not just write SQL commands but interpret and explain fundamental concepts of data, information, and knowledge and demonstrate an understanding of differences between traditional file systems and databases. I put that quality to the test when I was assigned task 1.1p where I had to do a reflection on data driven systems. Without having the knowledge of the difference between traditional file systems and databases I wouldn't have completed that task. Because data driven apps won't function on traditional file systems because they tend to have so many errors unlike databases.

Second, I can analyze real-world problems to identify data requirements and apply data modelling concepts to design and develop Entity Relationship Diagrams for efficient data representation and storage. In task 2.1p I had to model a database into an ER diagram. In the task 3.1p I had to read the problem given from a real-world scenario to create an entity relationship diagram and connect them correctly with logic and also write assumptions about how it would have worked. In task 4.2c, and 7.2c I had to design and implement my own application which would deal with a database. I choose the uber eats company and did a mini-project. This is how I developed the quality of identifying real world problems, modelling, designing, and implement databases by creating entity relationship diagrams for all the databases.

Then, I was developed the skills for designing, implementing, evaluating and maintaining relational database systems using SQL and Database Management Systems and explain the purpose of various SQL commands and operations. In tasks 1.2p I learned how to install and use a relational database. In task 5.1p I learned how to create actual tables a lot of numbers of columns and rows by using the database and SQL queries. There were many other tasks that helped me to learn various new commands, such as task 6.1p where I learned SELECT and JOIN. All these helped me gain the learnings mentioned above.

Finally, I developed a quality of analyzing and critique achievements of learning outcomes and justify meeting specified outcomes through providing relevant evidence and evaluating the quality of that evidence against given criteria which is what exactly I did in my previous paragraphs mentioned above. I'm able to now justify the qualities that I have developed throughout this semester.

So, since I developed not only the knowledge of the SQL program and commands but all the qualities mentioned above, I deserve a Higher Distinction grade for this module.

Reflection

The most important things I learnt:

The most important thing I learned in this module is the use of SQL command to create and delete tables, columns and rows. This came very handy in the task related to creating and modelling databases, tasks 5.1p,1.2p,4.2c, and 7.2c. they were such complex programming compared to almost all the other tasks. But if these commands weren't introduced, those tasks would have become impossible. These tasks tested my patients and made me push beyond my limit.

The things that helped me most were:

Obviously, it was the lecture notes and the lecturer who helped me the most in this module. The lecturer was ready at any time of the day or night to help clear my doubts about the lessons and tasks given. The videos that were provided along with the tasks also had a vital role in helping me. They gave me a head start on what and how I wanted to accomplish all the tasks provided.

I found the following topics particularly challenging:

There are not one or two but a few topics that I felt were challenging; they are PL-SQL, SELECT and JOIN, and 3rd normalization. Even though they are challenging, I managed to use them in the task codes.

I found the following topics particularly interesting:

The most interesting topic for me is the diagrams. The Entity relationship, context diagram, and UML diagrams are the most interesting parts. I love when things are simplified, and I was able to simplify the databases using these diagrams in particular. I have used these many times and every time I use them, I felt easy and interesting.

I feel I learned these topics, concepts, and/or tools really well:

Almost all the topics are well taught but to be specific, I felt it was the database modelling and all the diagrams that were used to model the database. We were using them from the beginning of the course and nobody had any trouble with that.

I still need to work on the following areas:

I feel like I still need more practice in the PL-SQL, SELECT and JOIN, DML and DDL queries. They are always giving me trouble.

This unit will help me in the future:

SQL queries and database management will help me become a data engineer, programmer, software developer and administrator in the IT field. This module not only taught me how to code but also how to do a given job properly, on time, and correctly. Handling pressure was also a valuable lesson taught.

If I did this unit again, I would do the following things differently:

I would try to finish the tasks as soon as possible once it has been assigned because the mistake, I made in this semester was thinking that I enough time to complete my assignments but it is not true.

Other…:

SQL and database have made me a more of technical person, a person who always looks for some more valuable information everywhere I go, made my mind to think practically in many ways. I think that is something very important to have.