COLLEGE OF HEALTH, AGRICULTURE AND NATURAL SCIENCES

CIS301 DATABASE SYSTEMS

END OF SECOND SEMESTER EXAMINATIONS

APRIL/MAY 2021

LECTURER: MR MAGWAGWA

DURATION: 7 HRS

INSTRUCTIONS

You are required to answer question/s as instructed below:

When submitting your answers compress(zip) the practical and submit theoretical question as separate file in moodle

Submit an exported database to questions that use a database

Answer One(1) questions

Credit will be awarded for logical, systematic and neat presentations

Question 1

You are a database administrator for a local clinic and you have been tasked to introduce a new record management system for them. Write a Report to the Nurse in Charge outlining the following:

   a) An in-depth analysis of how databases have transformed overtime
   b) To recommend a specific database and what advantages they should expect
   c) An in-depth analysis of the security aspects to consider.

[100 Marks]

Question 2

You have been approached by District Hospital to assist with their database issues mainly redundancy and data inconsistences. Write a report to the administrator on the areas below.

   a) Describe and explain in detail the concept you would use to resolve such issues (Use a working example to answer this question)   **[50 Marks]**
   b) Explain the various ways you could correctly identify records in the database tables **[50 Marks]**

Question 3

Using a Server Scripting language of your choice, connect to a MySQL DBMS. Do the following operations:

   a) Create a database called *Healthdb*
   b) Create two tables *tbl_user* and *tbl_clients*
   c) The table should have the attributes listed:

tbl_user	*tbl_clients*
id(Auto increment)	id (Auto increment)
username(Varchar 50)	firstname(Varchar 50)
firstname(Varchar 50)	lastname(Varchar 50)
lastname(Varchar 50)	Province(Varchar 50)
description(Text)	ailment(Text)
Password(Text)	

   d) Create two HTML forms that save data in the two tables

e) Using Server scripting and MySQL languages create a page that VIEWS what has been stored in *tbl_clients* table.

f) Using Server scripting and MySQL languages create a page that DELETES what has been stored in *tbl_users* table.

g) Export your database to your machine

h) Zip the database and the PHP files. Upload the Zip file to moodle.   **[100 Marks]**