JOHN EDMONDSON HIGH SCHOOL
Assessment Notification

Faculty: Technology   **Course: IST**   **Year: 10 - ROSA**

Assessment Task: Database Design

Assessment Weighting: 20%   Due: Term 1 (2024)   Week: 10   Date: 3/4/2024

Task Type: Hand in Task ☒   In Class Task ☐   Practical Task ☐

Outcomes assessed (NESA)
5.2.1 Describes and applies problem-solving processes when creating solutions
5.2.2 Designs, produces and evaluates appropriate solutions to a range of challenging problems
5.2.3 Critically analyses decision-making processes in a range of information and software solutions
5.5.2 Communicates ideas, processes and solutions to a targeted audience

Task Description/Overview
Your group (*maximum of 4*) is to create a relational database (**Microsoft Access**) that will solve a fictitious problem. E.g. creating a database for a library or a video store.

Detailed Assessment Task Description

Database Solution – **60 marks**
1. Minimum of three tables
2. More than 20 records per table.
3. Forms for the tables
4. Minimum of 2 queries sorted in ascending order by selected fields.
5. Minimum of 2 reports

Written Design portfolio – **40 marks**
1. Identify the fictitious problem situation and identify the target audience. (approx 200 words)
2. Designing possible solutions – produce at least three possible solutions, listing the benefits for each solution and a list of at least 5 criteria to evaluate its success.
3. Design technique – Data Dictionary of the tables
4. Produce the Solution (approx 200 words)
5. Evaluation – final evaluation of database design, using the evaluation criteria listed in question two. (approx 300 words)
6. Management plan – a clear time schedule in form of a Gantt chart.
7. Plan (in table form) of activities undertaken by each member and time spent on task. As per example below (These should have a match to the Gantt Chart);

Student (each student may perform more than one activity)	Activity	Details of how the activity was performed	Time taken on the activity

Peer review – **15 marks**
Students will self-reflect on their contribution to the group task and also assess the contributions from each student group member

Test/Examination Structure	
Section Description	**Marks Available**
Database Solution	60
Written Design Portfolio	40
Peer review	15
Total Marks for this task	**115**

Satisfactory completion of courses

A course has been satisfactorily completed, when the student has:

- Followed the course developed/endorsed by the NSW Educational Standards Authority (NESA)
- Applied himself/herself with diligence and sustained effort to the set tasks and experiences provided in the course.
- Achieved some or all of the course outcomes

Assessment Marking Guidelines / Criteria

5.2.1 Describes and applies problem-solving processes when creating solutions. 5.2.3 Critically analyses decision-making processes in a range of information and software solutions	Marks
Written Portfolio	
An EXCELLENT task has • Detailed description of problem situation outlining the problems it causes, target audience and the need to find an appropriate solution. • Generates three or more realistic ways of solving the problem, benefits of each proposal and outlines four or more criteria of the success of each. • A data dictionary for six or more fields and each section filled in detail (field name, data type, explanation). • A gantt showing in detail the tasks to be completed, the total time frame for task and logical sequence of events. • A detailed plan of activities taken by each participant.	30-40
A SUBSTANTIAL task has • A reasonable description of problem situation, target audience outlining some problems it causes. • Suggests two or more ways of solving the problem, benefits of each proposal is outlined. At least three criteria of the success mentioned for each. • A data dictionary for six or more fields and each section filled in detail (field name, data type, explanation). • A gantt showing in time frame for tasks and sequence of events. • A reasonably good plan of activities taken by participants.	20-30
A SATISFACTORY task • Satisfactory description of problem situation outlining the problems it causes. Some target audience identified. No mention of the need to find an appropriate solution. • Generates 1-2 ways of solving the problem, benefits of each proposal outlined. A few criteria mentioned for evaluating the success of each. • A data dictionary for all fields listed but details missing or incorrect.(Field name, data type, explanation). • An attempt made of a Gantt chart but information contained is brief and sequence not practical or has faults. • A brief plan of activities taken by participants. Fine details like dates and time not included.	10-20
A UNSATISFACTORY task • A very brief mention of problem situation. No mention of problems it causes and the need to find an appropriate solution. No target audience identified. • Outlines only one way of solving the problem, No or few benefits of proposal outlined. None or few criteria for success listed. • An attempt made to do the data dictionary but information is not complete or contains errors. (field name, data type, explanation). • Some attempt made of a gantt chart but the events and sequence not realistic or incorrect. • No plan of activities taken by participants.	0-10

5.2.2 Designs, produces and evaluates appropriate solutions to a range of challenging problems. 5.5.2 Communicates ideas, processes and solutions to a targeted audience **Database Solution**	Marks
An EXCELLENT task • All design objects completed 3 or more tables, minimum 20 records per table, forms, 2 reports, 2 queries completed in detail. • Well designed, successful solution. • Worked according to proposed plan • Easy to navigate. Tables, forms, queries reports named properly • Detailed evaluation using 5 or more criteria. • Clear evidence of a plan being followed.	45-60
A SUBSTANTIAL task will • All design objects completed to minimum requirements: Data dictionary attempted but some errors in detail to information. Two tables, 15-20 records, a form, a query and a report completed successfully. • Adequately designed, successful solution. Easy to navigate. Some problems. • Good evaluation using 3 or more criteria. • Good evidence of plan followed.	30-45
A SATISFACTORY task • Most design objects completed to minimum. Satisfactory designed, successful solution. Data dictionary attempted but not complete, 20 records attempted but details not complete at least a form/ query/or report completed. • A very brief evaluation done but not clear criteria identified. • Some evidence of following the plan.	15-30
A UNSATISFACTORY task • Some design objects completed to minimum or less. Poorly designed, partly successful solution. Only a table created less than 4 fields, less than 20 records, no attempt of reports, queries, or forms. • Problems with navigation. • No indication plan followed.	0-15

Self and Peer Review

Name: _____		5 (Exceeds Expectations)	3 (Meets Expectations)	1 (Below Expectations)
Name: _____ /15 Grade: _____	Responsibility:	I stayed on task and did my work without being asked by my group members or a teacher.	I stayed on task and did my work when asked by my group members.	I did not stay on task or do my work.
	Quality of Work:	My work was my best, I am proud of what I contributed.	My work was of good quality and my contributions meet the expectations.	My work was not my best; maybe my work should be re-done.
	Attitude:	My group was more successful because I was a member of the team.	I worked with my group and did not contribute significantly positively or negatively.	I had a negative attitude and it impacted my groups' success.
#1 _____ /15 Grade: _____	Responsibility:	(#1) stayed on task and did their work without being asked by group members or a teacher.	(#1) stayed on task and did their work when asked by group members.	(#1) did not stay on task and/or do their work.
	Quality of Work:	(#1) did their best work, they should be proud of what they contributed.	(#1)'s work was of good quality and their contributions meet the expectations.	(#1)'s work was not their best; maybe their work should be re-done.
	Attitude:	The group was more successful because (#1) was a member of the team.	(#1) worked with the group and did not contribute significantly positively or negatively.	(#1) had a negative attitude and it impacted the groups' success.
#2 _____ /15 Grade: _____	Responsibility:	(#2) stayed on task and did their work without being asked by group members or a teacher.	(#2) stayed on task and did their work when asked by group members.	(#2) did not stay on task and/or do their work.
	Quality of Work:	(#2) did their best work, they should be proud of what they contributed.	(#2)'s work was of good quality and their contributions meet the expectations.	(#2)'s work was not their best; maybe their work should be re-done.
	Attitude:	The group was more successful because (#2) was a member of the team.	(#2) worked with the group and did not contribute significantly positively or negatively.	(#2) had a negative attitude and it impacted the groups' success.
#3 _____ /15 Grade: _____	Responsibility:	(#3) stayed on task and did their work without being asked by group members or a teacher.	(#3) stayed on task and did their work when asked by group members.	(#3) did not stay on task and/or do their work.
	Quality of Work:	(#3) did their best work, they should be proud of what they contributed.	(#3)'s work was of good quality and their contributions meet the expectations.	(#3)'s work was not their best; maybe their work should be re-done.
	Attitude:	The group was more successful because (#3) was a member of the team.	(#3) worked with the group and did not contribute significantly positively or negatively.	(#3) had a negative attitude and it impacted the groups' success.
#4 _____ /15 Grade: _____	Responsibility:	(#4) stayed on task and did their work without being asked by group members or a teacher.	(#4) stayed on task and did their work when asked by group members.	(#4) did not stay on task and/or do their work.
	Quality of Work:	(#4) did their best work, they should be proud of what they contributed.	(#4)'s work was of good quality and their contributions meet the expectations.	(#4)'s work was not their best; maybe their work should be re-done.
	Attitude:	The group was more successful because (#4) was a member of the team.	(#4) worked with the group and did not contribute significantly positively or negatively.	(#4) had a negative attitude and it impacted the groups' success.