**DBAS 1001**

**Introduction to Database Management**

**Final Project**

**Your Work:**

The Final Project for this course is a summative assessment designed to demonstrate all of the skills you have acquired through completion of DBAS 1001.

The requirement for this project is to design and implement a database application system that meets the following minimum specifications:

* Based on documented client storage and retrieval requirements;
* Database complexity must include at a minimum the physical implementation of a many to many relationship (three tables, two parents, one child);
* At least five rows of test data in each table;
* An input/edit form for each database table;
* A form that displays data from more than one table, such that the two areas of data display in synchronization with each other;
* A report that displays at least one grouping level and at least one summarization function such as a total or count; and
* An application menu system that allows navigation from a main menu, through submenus, to the application objects described above. The menu system must also be capable of exiting the DBMS.

**The Two Alternatives**

You have two alternatives for completion of this final project. The first is focused on documentation skills, whereas the second is more aimed toward production of a working prototype/product.

The first alternative is technically easier, and allows you to use much of the work you have already completed through the first nine assignments; accordingly, **the maximum score you can achieve for alternative one is 24/40 final project points**. The second alternative requires you to use a completely different scenario than the appt\_sched\_master. While there is **no hard copy documentation requirement**, you will see from the rubric that there is a detailed demonstration component that includes not only presentation of the final product meeting the technical specs, but also presentation of a complete understanding of the product and the requirements that it was based upon. **The maximum score you can achieve for alternative two is 40/40 final project points**.

As usual, please see the following two-page rubrics for details of your deliverables under each of the two options.

**DBAS 1001 FINAL PROJECT ALTERNATIVE ONE**

# Database Application System Documentation Package

**Student Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Student Number:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**IT Program Section: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

|  |  |  |  |
| --- | --- | --- | --- |
| **Marking Point** | **0** | **1..9** | **10** |
| Existing System | Not stated | Incomplete or inaccurate | The Existing System section must include information sufficient to form conclusions regarding: entities in the system, relationships between the entities, and attributes of the entities |
| Requirements | Not stated | Incomplete or inaccurate | Clear, measurable requirements for deliverables, including stage of development required i.e. design, prototype, implementation, testing |
| Analysis | **0** | **1..9** | **10** |
| ERD | None | incomplete | Technical: Contains at least the physical implementation of a M:M relationship  Supporting Analysis: For entities, relationships, keys |
| Data Dictionary | none | incomplete | Technical: Each entity has a PK, FK if necessary, and at least two descriptive fields  Supporting Analysis: For attributes, datatypes, FKs |
| Input/Edit Forms | none | Incomplete | Technical: An I/E form has been designed for each table in the ERD  Supporting Analysis: Storyboards with accompanying explanations |

|  |  |  |  |
| --- | --- | --- | --- |
| Master/Detail Form | None | Incomplete | Technical: At least one form has been designed that displays data from at least two data sources in a synchronized manner  Supporting Analysis: Storyboard with accompanying explanation, query design if necessary |
| Report | None | Incomplete | Technical: At least one report exists that displays data from one or more tables, with at least one grouping level in the report and at least one summary function at the grouping level  Supporting Analysis: Report Storyboard, analysis to identify grouping levels, summary functions, and base level query design |
| Menu | None | Incomplete | Technical: There must be a Main Menu or Switchboard that successfully uses interactive objects such as buttons to run each of the forms and reports in this project. Upon closing the called form or report, programmatic control must return to the menu. The menu must have a interactive object capable of closing the application.  Supporting Analysis: Functional Hierarchy Diagram (FHD) and storyboards with accompanying explanation for menu objects |

**DBAS 1001 FINAL PROJECT ALTERNATIVE TWO**

# Database Application System Demo

**\*\*NOTE THAT TO BE ELIGIBLE FOR THIS RUBRIC, THE PROJECT TOPIC SCENARIO CANNOT BE THE APP\_SCHED\_MASTER DATABASE\*\***

**Student Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Student Number:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**IT Program Section: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

|  |  |  |  |
| --- | --- | --- | --- |
| Marking Point | 0 | 1..9 | 10 |
| ERD | None | incomplete | Technical: Contains at least the physical implementation of a M:M relationship  Supporting Analysis: must be able to explain the business scenario underlying the data model design |
| Fields | none | incomplete | Technical: Each entity has a PK, FK if necessary, and at least two descriptive fields  Supporting Analysis: must be able to explain the purpose of each field |
| Data | none | incomplete | Each entity has at least five rows of test data |
| Input/Edit Forms | none | Incomplete | Technical: An I/E form exists for each table in the ERD, and they are working for Input, Edit, and Delete.  Supporting Analysis: you must demo test cases that prove the insert, update and delete functionality for each of your forms. |

|  |  |  |  |
| --- | --- | --- | --- |
| Master/Detail Form | None | Incomplete | Technical: At least one form exists that displays data from at least two data sources in a synchronized manner.  Supporting Analysis: you must have a test case that demonstrates the synchronization functionality of your form. |
| Report | None | Incomplete | Technical: At least one report exists that displays data from one or more tables, with at least one grouping level in the report and at least one summary function at the grouping level  Supporting Analysis: you must have a test case that demonstrates the functionality of your report. |
| Menu | None | Incomplete | Technical: There must be a Main Menu or Switchboard that successfully uses interactive objects such as buttons to run each of the forms and reports in this project. Upon closing the called form or report, programmatic control must return to the menu. The menu must have a interactive object capable of closing the application.  Supporting Analysis: your demo must successfully navigate to each application object from the main menu and return. |