1. **Statement of Work**

Describe the work your team has completed for database design. Explain the process or approach you used for this task. Additionally, List each team member and the tasks they have completed for the current database design milestone. If a member did not contribute to this deliverable (s/he may be working on another task) you should list the name of the team member and write that s/he did not contribute to this milestone.

Example

Ali Macchiato

Corrected the ERD according to the feedback

Identified the missing requirements

Validated requirements that were not associated with any GUIs

Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Ayse Mochaccino

Converted the ERD to relational schema

Validated the GUIs

Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Ayse Mochaccino

Converted the ERD to relational schema

Validated 5 GUIs : Figs 3-7

Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Latife Latte

Validated 15 GUIs : Figs 8-22

Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. **Conceptual ERD**

Include the conceptual ERD preferably drawn using Peter Chen notation.

1. **Assumptions**

List all assumptions, if any, you have made. Include any information that will help us understand your design.

1. **Relational Schema**Give the relational schema of the ERD here. Clearly indicate all primary keys, foreign keys and check constraints.

Example:

Departments(**deptno**, name, deptcode)

Deptcode: Unique

Students(**id**, firstname, lastname, gender deptno, status)

Deptno: references departments(deptno) on delete no action, on update set null

Gender: check(gender in (‘F’, ‘M’))

1. **Normalization**Verify that all tables are normalized at least up to 3NF. Explain briefly how you confirmed that the relations are normalized. If you will use any unnormalized tables explain clearly.
2. **Validation against User Transactions**

Validate all transaction requirements as indicated by the requirements and the GUI you have designed. For validation you can use SQL commands or verbal explanations.

|  |  |  |
| --- | --- | --- |
| **Student Number:** | 921391 |  |
| **Name, Surname:** | Robusta Decaff |
| **Department:** | 31 - COMPUTER PROGRAMMING AND INFORMATION TECHNOLOGY |
| **Status:** | Graduate |

Example

Figure 6.1 Student Search Results

Validation for Student Search Results:

After the user enters the student id of the student, the following query is executed in order to populate the form shown in Figure 6.1:

Select id, concat(firstname,lastname), concat(deptno,name),status

From students s,departments s

Where s.deptno=d.deptno and s.id=&studentid\_entered

1. **Unresolved Issues**

Discuss the problems/ambiguities/omissions, if any, you have faced at this stage. Explain how you are planning to solve these problems.