**SE 2222 DATABASE SYSTEMS**

**DATABASE PROJECT/ASSIGNMENT PROCEDURES**

**PHASE 1:** DATABASE DESIGN—ERD **(29 OCTOBER- 4 NOVEMBER)---50 points/COMPLETED**

* Purpose of the database
* Tables required for the purpose of storing information
* **Columns should be designed in the table**
* **Identification of the primary keys**
* **Design relationship between the tables**

Students asked to prepare at least 4 tables (at least 3 of them has 5 or more fıelds). **They completed the Requirements Analyis, Cardinality and ER Diagrams.** They were recommended to use "https://www.lucidchart.com/" OR any other free tool

**PHASE 2:** FILLING THE TABLES, NORMALIZATION RULES, SQL, CONSTRAINTS, TRIGGER, ASSERTION EXAMPLES **(27 NOVEMBER-10 DECEMBER)----100 Points**

* Review the final design
* Fill the tables with at least 10 records (Any program you developed will bring additional points)
* Apply normalization rules (1NF,2NF,3NF)---All tables
* One SQL example for each table (Select, Distinct, Where, AND/OR, Between, Order By, Group By) with different clauses**.----4 example**
* SQL INSERT INTO, UPDATE Statements, SQL ALTER TABLE, SQL Joins **------3 examples**
* SQL indexes----- **for each table**
* Triggers-----**2 for database**
* Assertion----**2 for database**

**PHASE 3:** DESKTOP OR MOBILE INTERFACE **(7-17 DECEMBER)----150 points**

* **Prepare a front-end program to display database modifications**
* Can be desktop, mobile native or web based
* **Be ready to answer immediate questions---for each team member 2 questions at least**
* **Prepare a presentation for database, tables and relations with SQL examples---10 slides with a running application**
* Research assistans will control and ask questions after presentation
* Lecturer will evaluate again if necessary