

## INTRODUCTION TO DATABASES

### PROJECT – 2. PHASE

The names and current photos of the students should be on the first page and the following text should be inserted and signed.

**Şerefim ve inandığım tüm değerler adına yemin ederim ki bu sınavda hiçbir yerden kopya çekmedim ve etik kurallarına karşı gelmedim.**

**I swear on behalf of my honor and all the values I believe in that I did not cheat in this exam from anywhere and I did not violate the ethic rules.**

The tables that you designed in the first phase of your project should be created in MS SQL. There must be sufficient and meaningful data and reasonable constraints for each table. SQL queries should be technically explained with one sentence. The rules:

- At least, 30 meaningful SQL SELECT commands must be written:
  - Simple or meaningless SQL queries (such as SELECT \* FROM Table1 or queries that mean nothing technically) are not accepted. Different commands, functions etc. must be used in the queries (aggregate functions, GROUP BY, HAVING, EXISTS, IN, UNION, INTERSECT, EXCEPT etc.)
  - 15 queries should contain JOIN clause.
  - The outputs of the SELECT queries should be saved in the Word file.
- At least 5 INSERT, 5 UPDATE and 2 DELETE sentences must be written.
- The corresponding CREATE clauses must be written for each table and at least 5 ALTER TABLE and 2 DROP TABLE clauses must be written for the entire database.
- At least 5 views must be created and the corresponding SQL commands must be displayed with the outputs (ie at least 5 CREATE VIEW clauses, 5 SELECT FROM view clauses and the associated outputs).
- At least 5 indices (except for the primary key) must be created and the corresponding SQL clauses must be shown.
- The report must be properly prepared. All answers must be displayed in order. The report (including the first phase) should be uploaded (Word file (docx) and MS SQL files - MDF and LDF). Hard copy of the report (docx file) should be brought to the final exam.

**NO E-MAIL!**

Deadline: Final exam