

Lab 4: Stored Procedures, Functions, Views, Triggers, Indexes

assigned week 9/10 – due week 11/12

Consider the database created for the first lab.

- a. Implement a stored procedure for the INSERT operation on 2 tables in 1-n relationship; the procedure's parameters should describe the entities / relationships in the tables; the procedure should use at least 1 user-defined function to validate certain parameters.
- b. Create a view that extract data from at least 3 tables and write a SELECT on the view that returns useful information for a potential user.
- c. Implement a trigger for a table, for INSERT, UPDATE or/and DELETE; the trigger will introduce in a log table, the following data: the date and the time of the triggering statement, the trigger type (INSERT / UPDATE / DELETE), the name of the affected table and the number of added / modified / removed records.
- d. Write a query that contains at least 2 of the following operators in the execution plan (by using WHERE, ORDER BY, JOIN's clauses):
 - ◆ clustered index scan;
 - ◆ clustered index seek;
 - ◆ nonclustered index scan;
 - ◆ nonclustered index seek;
 - ◆ key lookup.