The final exam may contain any (or all) of the following skills. You may only use SQL commands to complete each task, unless specifically instructed that using the GUI is permissible.

This exam is an individual, open book and open note assignment. Your instructor(s) will announce the time allotted to complete the Exam at the beginning of the exam.

It’s recommended that you practice labs 5 and 6 in your personal database.

Minimum Required Skill Set:

* Import data from an Excel spreadsheet by using the Management Studio data import wizard.
* Create and save a table (including PK, FK and relationship(s) to other tables)
* Create and save a Management Studio ERD for your database.
* Create and save views:
	+ That show data from multiple tables
	+ That use existing system functions, such as Count(), Sum(), Average()
	+ That use DISTINCT, GROUP BY, ORDER BY, and/or WHERE
	+ That use OUTER JOIN to show records from one table and a related table. (That is, show all required records from Table A, whether or not there is a matching record in Table B.)
* Create *bulk* UPDATE for changing data in fields and *bulk* INSERT statements for adding new data rows. (Joining two source tables with FROM and JOIN clauses may be required.)
* Create and save basic Functions
	+ Also, you must be able to write/use an EXEC command or a SELECT command to use the function
* Backup your database and transaction log files. (RESTORE will **not** be required.)
* Create and save an index on a field or on multiple fields in a table.
* Apply any minor skills related that have been practiced this quarter, even though they are not explicitly listed above. For example, you should know basics, such as *how to create an alias for each table* in a SELECT command.)