

# Chapter 11b

## ISTA-420, T-SQL Fundamentals

1. What is *dynamic SQL*?
2. In executing dynamic SQL, what are the differences between using the EXEC command and the *sp\_executesp* stored procedure?
3. What is a *SQL injection* attack? Give an example of an attack.
4. How do you execute the EXEC command? Write a complete example using the TSQLV4 database.
5. Describe the use of input parameters and output parameters for the *sp\_executesql* stored procedure.
6. What are the three kinds of *routines* that T-SQL recognizes?
7. What is the difference between a *stored procedure*, a *user defined function*, and a *trigger*?
8. What is the primary function of a UDF? This is not specifically stated in the book but is clear from the context of the discussion in the book.
9. (Not in book.) What are *side effects*, and why are they dangerous?
10. What is the principle distinction between a UDF and a stored procedure?
11. Given that you cannot execute a trigger explicitly, what is the advantage of using triggers?
12. In using error handling in T-SQL, can you mimic a finally block? If so, how?
13. Write a user defined function that returns a Boolean as to whether a customer may purchase alcohol as of the instant that the function runs.
14. Write a trigger that places a customer in the OFF\_LIMITS table if he attempts to purchase alcohol when he is underage.
15. Write a stored procedure that deletes customers from the OFF\_LIMITS table when they have reached their 21st birthday.