

# Unit Testing T-SQL code with tSQLt

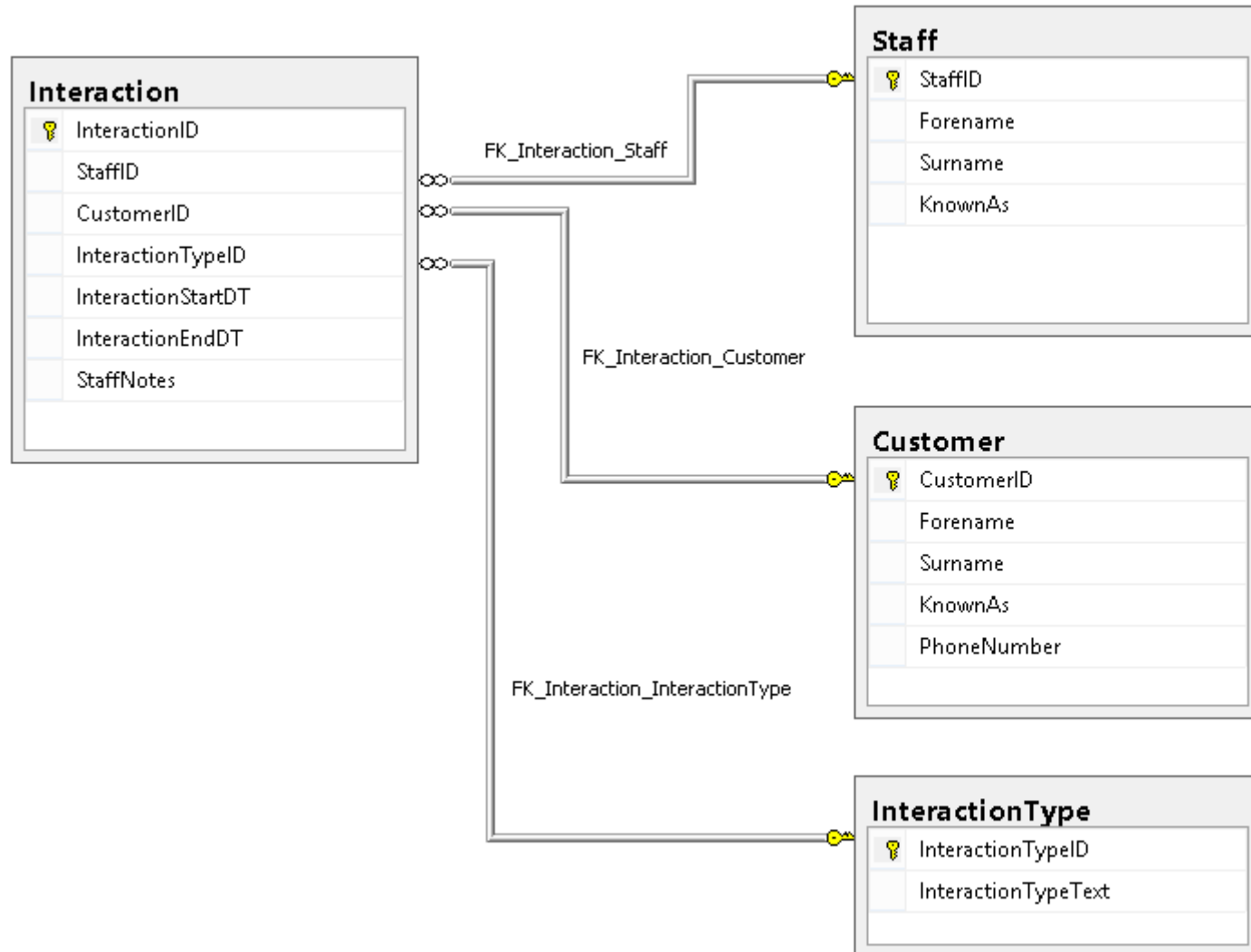
How to write your first unit test

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# CustomerManagement Database



# Incomplete tests

- Test procedure created before test is completely working
- Test written in advance of procedure
- tSQLt *assumes* the test passes
  - ... Until it is explicitly told the test has failed
  - ... Or an assertion is called which is not proved to be correct
- If no assertions are called, this can create a false impression of success

# Report contacts and average duration

- **For Each Contact Type**
  - How many contacts have taken place
  - How much time in total was used?
- **From this the presentation layer can generate average (mean) contact time, and order appropriately.**
- **Example output:**

InteractionTypeText	Occurrences	TotalTimeMins
Meeting	150	50000
Introduction	200	20450
Phone Call	230	34572

# Possible tests

- Does the solution exist?
- Does it have the right output format?
- Is the output what you would expect?
  - ... if there is no data to display?
  - ... if there is only a small amount of data to display?
  - ... if there is a large quantity of data to summarize?

# Testing our output

- Data table to be returned
- Expected set of data
- Capture output of object under test
- Assert they are the same
- See if our assertion is met

# Summary

- Introduction to the database and tables
- Implemented our first test
- Implemented a test of output data
- False test passes
- Our tests initially failed, and we made them pass