DAO Testing

Note 1: In a slight change of order, we will be doing Data Security tomorrow. There will be reading for data security, but no quiz, no tutorial, and most exciting of all, no exercises.

Note 2: Due to family circumstances, I will be flying to Boston on Friday. There will probably be no review day, but there will be pairs work for the weekend. I will be largely unavailable.

DAO sequence to understand

```
/* Create a string which is your SQL command, using a ? for each parameter */
String sql = "SELECT meetup id, name FROM meetup WHERE meetup id = ?";
/* If you want rows back, use jdbcTemplate.queryForRowSet with one parameter per ? */
SqlRowSet results = jdbcTemplate.queryForRowSet(sql, meetupId);
/* If you expect to receive multiple rows, use while */
while (results.next()) {
 meetups.add(mapRowToMeetup(results));
}
/* If you only expect one row, use if */
if (results.next()) {
  meetup = mapRowToMeetup(results);
}
/* For INSERT INTO, use the RETURNING part and jdbcTemplate.queryForObject */
String sql = "INSERT INTO project (name, from date, to date) VALUES (?, ?, ?)
RETURNING project id;";
Long newId = jdbcTemplate.queryForObject(sql, Long.class,
        newProject.getName(),
        newProject.getFromDate(),
        newProject.getToDate());
return getProject(newId);
/* For dates that might be null, get the date then the */
Date myDate = rowSet.getDate("date established");
if (myDate != null) {
   park.setDateEstablished(myDate.toLocalDate());
```