VaanNila

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Spring NamedParameterJdbcTemplate

The `NamedParameterJdbcTemplate` class helps you specify the named parameters insted of classic placeholder('?') argument. Named parameters improves readiablity and are easier to maintain.

```
01.  package com.vaannila.dao;
02.
03.  import java.sql.ResultSet;
04.  import java.sql.SQLException;
05.  import java.util.HashMap;
06.  import java.util.Map;
07.
08.  import javax.sql.DataSource;
09.
10.  import org.springframework.jdbc.core.RowMapper;
11.  import org.springframework.jdbc.core.namedparam.MapSqlParameterSource;
12.  import org.springframework.jdbc.core.namedparam.NamedParameterJdbcTemplate;
13.  import org.springframework.jdbc.core.namedparam.SqlParameterSource;
14.
15.  import com.vaannila.domain.Forum;
16.
17.  public class ForumDAOImpl implements ForumDAO {
18.
19.      private NamedParameterJdbcTemplate namedParameterJdbcTemplate;
20.
21.      public void setDataSource(DataSource dataSource) {
22.          this.namedParameterJdbcTemplate = new
                 NamedParameterJdbcTemplate(dataSource);
23.      }
24.
25.      public void insertForum(Forum forum) {
26.          String query = "INSERT INTO FORUMS (FORUM_ID, FORUM_NAME,
                 FORUM_DESC) VALUES (:forumId,:forumName,:forumDesc)";
27.          Map namedParameters = new HashMap();
28.          namedParameters.put("forumId", Integer.valueOf(forum.getForumId()));
29.          namedParameters.put("forumName", forum.getForumName());
30.          namedParameters.put("forumDesc", forum.getForumDesc());
31.          namedParameterJdbcTemplate.update(query, namedParameters);
32.      }
33.
34.      public Forum selectForum(int forumId) {
35.          String query = "SELECT * FROM FORUMS WHERE FORUM_ID=:forumId";
36.          SqlParameterSource namedParameters = new
                 MapSqlParameterSource("forumId", Integer.valueOf(forumId));
37.
38.          return (Forum) namedParameterJdbcTemplate.queryForObject(query,
39.                  namedParameters, new RowMapper() {
40.              public Object mapRow(ResultSet resultSet, int rowNum)
41.                      throws SQLException {
42.                  return new Forum(resultSet.getInt("FORUM_ID"),
                         resultSet.getString("FORUM_NAME"),
                         resultSet.getString("FORUM_DESC"));
43.              }
44.          });
45.      }
46.
47.  }
```

The named parameter values can be specified using a map, where the parameter name serves as the key. You can also map the sql parameters using the `MapSqlParameterSource` class.

You can download and try the example here.

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