

Statement and Prepared Statement – advantages and disadvantages

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Why should I care about database?

- Most of the time the performance bottleneck is located in the I/O operations (database)
- Poor understanding of concepts can ruin a good middle tier architecture
- It's not only DBA responsibility
- There are many things to take into consideration, for the moment let's stick to statements

Statement

- `Connection conn = getConnection();`
- `String sql = "insert into dummy(name) values ('test')";`
- `Statement st = conn.createStatement(sql);`
- `st.executeUpdate();`

PreparedStatement

- `Connection conn = getConnection();`
- `String sql = "insert into dummy(name) values (?)"`;
- `PreparedStatement st = conn.prepareStatement(sql);`
- `st.setString(1,"test");`
- `st.executeUpdate();`

Advantages of using PreparedStatement

- When you execute a query this query is rewritten and compiled and then by the database server
- Protected against SQL injection

Advantages of using Statements

- The execution plan is always recomputed taking into account the new values
- Only one round trip