We are using Type 4 driver .(local as well as global)

In case of type 4 driver we can create our statement for execution using 3 different approach

1. Statement : By using statement we can prepare a statement as a string. Now consider a situation *“select \* from user where id =”+1+” and pass=+””god’12’234””*.Here password is *”god’12’234”* but it won’t be parsed correctly. So for this we are required another approach.
2. PreparedStatement : By using this we can pass the value to the query string by using an wildcard character “?”.And after building the query string we can set the value according to the wildcard character by using an 1-based index system.

Ex : Preparestatement stmt=con.preparestatement(*“select \* from user where id*

*=? and pass=?”*)

stmt.setInt(1,12);

stmt.setString(2,””god12234””);

1. CallableStatement : In case of using prepare statement there is also a problem. Suppose there are more than one execute query are ready to execute, But we can not execute these simultaneously. Because there may be an system performance issue.

In this case we have to write one procedure to execute more than one query in one single shot. And result will be returned accordingly.

Connection Pooling:

If there are more then one prepared execute query and ready to be executed, we cannot execute them instantly, Because there may a system issue(delay). So, in that case we have to use connection pooling. There is only one Connection but multiple objects can be prepared from that which means reuse the same object multiple objects and execute multiple queries through each of one.

Always load the jdbc driver statically, So that the class is loaded only once. It is done by using a static block.