

CallableStatement in JDBC

- The CallableStatement interface is used to call the stored procedures and functions.
- We can have business logic on the database by the use of stored procedures and functions that will make the performance better because these are precompiled.
- The CallableStatement interface is a sub interface of PreparedStatement.
- The prepareCall() method of Connection interface returns the instance of CallableStatement.
- To call the stored procedure, we need to create it in the database, which is as follows:
 - Open MySQL command line or MySQL workbench
 - First, select your database using sql command like for database sis- “use sis;”
 - Now, we can create stored procedure for table entries of selected database like-
 - DELIMITER &&
CREATE PROCEDURE showemp()
BEGIN
 SELECT * FROM emp;
END &&
DELIMITER ;
 - In the given sql statement above showemp() is a name of stored procedure.
 - If the query above executes well then, we can call the stored procedure from your Java program.
- The Java program with calling of stored procedure is as follows:

```
import java.sql.*;
public class JDBCCallable
{
    public static void main(String[] args) throws Exception
    {
        Class.forName("com.mysql.cj.jdbc.Driver");
        Connection
con=DriverManager.getConnection("jdbc:mysql://localhost:3306/sis","root","12345678");

        CallableStatement stmt=con.prepareCall("{call showemp()}");
        ResultSet rs=stmt.executeQuery();
        while(rs.next())
        {
            System.out.println(rs.getInt(1)+" "+rs.getString(2)+" "+rs.getString(3));
        }

        System.out.println("success");
    }
}
```

```
C:\Program Files\Java\jdk-11.0.12\bin\Manish>java JDBCCallable
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102 Aanish Jaipur
103 Abhishek Ajmer
104 Abhay Kota
105 Kuldeep Pali
106 Mahesh Dausa
107 Aalok Bikaner
111 Ronak Udaipur
112 Rohan Bharatpur
success
```