

next()

- next() is an inbuilt method present in the ResultSet Interface.
- It is used to check whether the next record is present in the cursor or buffer memory or not.
- It returns Boolean value but not the record.

Syntax:

```
public boolean rs.next() throws SQLException;
```

Drawbacks of Statement Interface

- Whenever we pass the query inside the loop for multiple times of execution, each time the query is sent to database and compiled first, then executed, the result is returned to the program. The problem with this kind of execution is it decreases the performance of the program.
- SQL Injection attack chances are high.

SQL Injection

- In the Req 2 program, the malicious user will not be knowing the input to be given but **1=1** is always **true**. Hence, the hacker is able to **steal** the data of all the user.
- This type of SQL injection attacks are **possible** with **Statement** Interface.
- To prevent SQL Injection, **PreparedStatement** Interface can be used.

Ex: Consider the below query:

```
"SELECT * FROM EMP WHERE FNAME=" 'SIDDARTH'
```

As the hacker doesnot know the input to be given, he just injects a true condition inside the query.

```
"SELECT * FROM EMP WHERE FNAME=" 'unknown' OR 1=1;
```