

JDBC PART-3

Methods of Connection interface:

- 1) public abstract java.sql.Statement createStatement() throws java.sql.SQLException;
- 2) public abstract java.sql.PreparedStatement prepareStatement(java.lang.String) throws java.sql.SQLException;
- 3) public abstract java.sql.CallableStatement prepareCall(java.lang.String) throws java.sql.SQLException;

Statement interface:

It is used to execute static SQL queries.

PreparedStatement interface:

It is used to execute dynamic SQL queries.

CallableStatement interface:

It is used to execute PL/SQL programs.

Methods of Statement interface:

- 1) public abstract boolean execute(java.lang.String) throws java.sql.SQLException;
- 2) public abstract int executeUpdate(java.lang.String) throws java.sql.SQLException;
- 3) public abstract java.sql.ResultSet executeQuery(java.lang.String) throws java.sql.SQLException;

execute() method:

It is suitable to execute DDL queries. DDL stands for Data Definition Language. Examples: CREATE, ALTER, DROP, .. etc.,

executeUpdate() method:

It is suitable to execute DML queries. DML stands for Data Manipulation Language. Examples: INSERT, UPDATE, DELETE, .. etc.,

executeQuery() method:

It is suitable to execute DQL queries. DQL stands for Data Query Language. Examples: SELECT

Program to create a table:

```
import java.sql.*;

class CreateDemo
{
    public static void main(String args[])
    {
        try{
            Class.forName("oracle.jdbc.driver.OracleDriver");
            Connection
con=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe","system","manager");

            Statement stmt=con.createStatement();

            stmt.execute("create table student(rollno number(3), name
varchar2(10), marks number(3))");
```

```
        System.out.println("Table Created Successfully");
    }catch(Exception e)
    {
        System.err.println(e);
    }
}
}
```

Program to insert a record:

```
import java.sql.*;
class InsertDemo
{
    public static void main(String args[])
    {
        try{
            Class.forName("oracle.jdbc.driver.OracleDriver");
            Connection
con=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe",
"system", "manager");
            Statement stmt=con.createStatement();
            stmt.executeUpdate("insert into student values(1,
'Venkatesh', 88)");
            System.out.println("One Record Inserted Successfully");
        }catch(Exception e)
```

```
        {  
            System.err.println(e);  
        }  
    }  
}
```

Program to retrieve data from database:

```
import java.sql.*;  
class SelectDemo  
{  
    public static void main(String args[])  
    {  
        try{  
            Class.forName("oracle.jdbc.driver.OracleDriver");  
            Connection  
con=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe",  
"system","manager");  
            Statement stmt=con.createStatement();  
            ResultSet rs=stmt.executeQuery("select * from student");  
            ResultSetMetaData rm=rs.getMetaData();  
            int n=rm.getColumnCount();  
            for(int i=1;i<=n;i++)  
            {
```

```
        System.out.print(rm.getColumnName(i)+"\t");
    }
    System.out.println();
    while(rs.next())
    {
        for(int i=1;i<=n;i++)
        {
            System.out.print(rs.getString(i)+"\t");
        }
        System.out.println();
    }
} catch(Exception e)
{
    System.err.println(e);
}
}
```

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