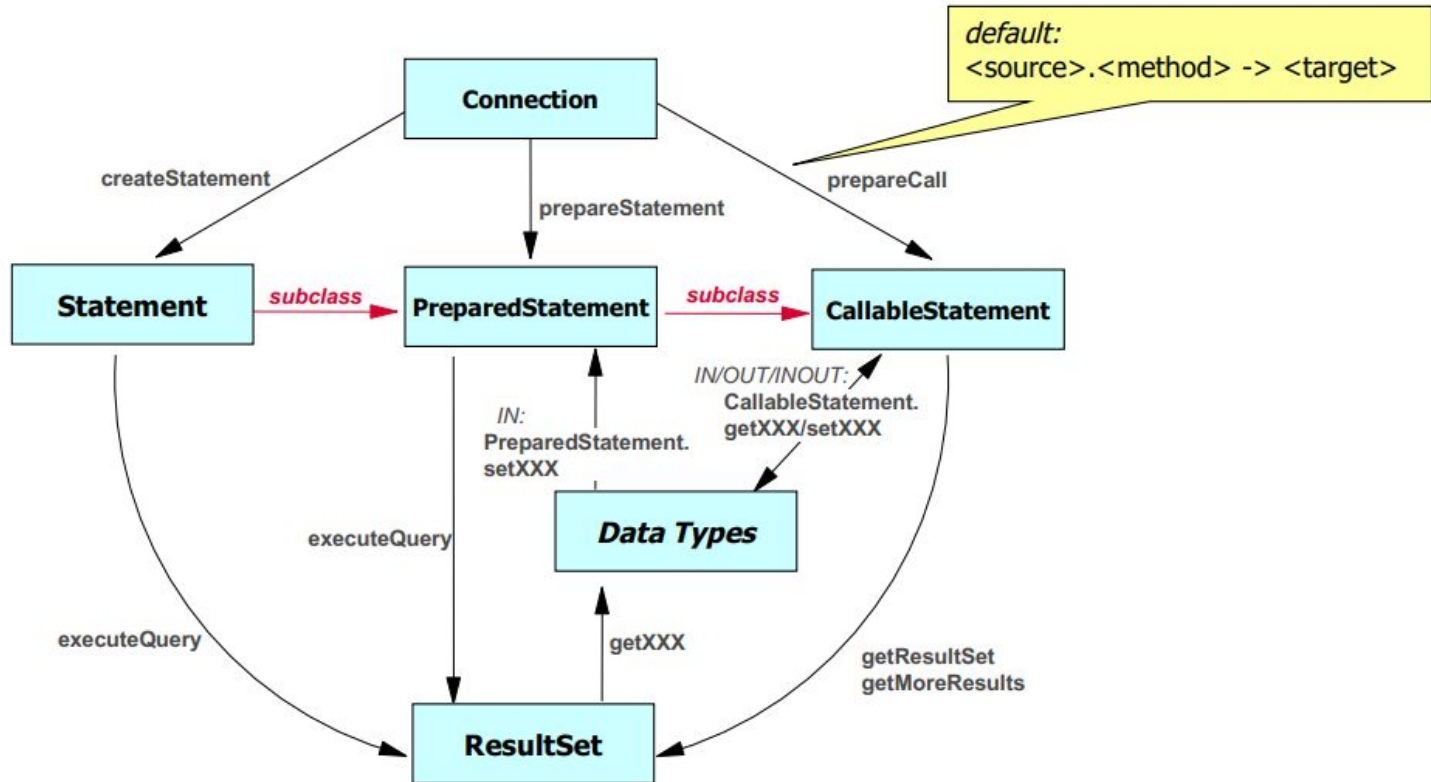


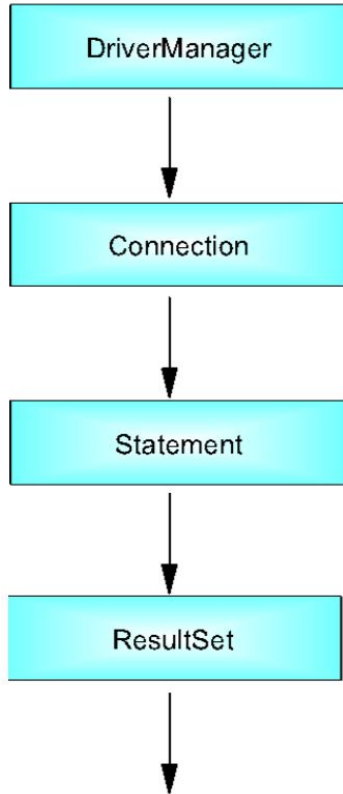
JDBC

ResultSet
Connection
JDBC
DataSource
Statement
PreparedStatement

JDBC - Core interfaces



JDBC Example



```
String url = "jdbc:db2:mydatabase";
```

```
...
```

```
Connection con = DriverManager.getConnection(url, "dessloch", "pass");
```

```
String sqlstr = "SELECT * FROM Employees WHERE dept = 1234";
```

```
Statement stmt = con.createStatement( );
```

```
ResultSet rs = stmt.executeQuery(sqlstr);
```

```
while (rs.next() ) {
```

```
    String a = rs.getString(1);
```

```
    String str = rs.getString(2);
```

```
    System.out.print(" empno= " + a);
```

```
    System.out.print(" firstname= " + str);
```

```
    System.out.print("\n");
```

```
}
```

JDBC Advantage

- Simple and Easy Database Access
- Standardized API and SQL allows for talking to DBs of different vendors
- Vendors provide native JDBC drivers

JDBC Disadvantage

- Error prone
 - Potential for Memory Leak
 - Unsafe code
- Verbose code
- Poor Exception handling
- Complicated Conversion from Result to Object
- Coupling DB model to Code

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