



Core Java

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Reader and Writer

Character Encoding

'A' \rightarrow 65 \rightarrow 00000000 01000001
HB LB

→ ASCII 65

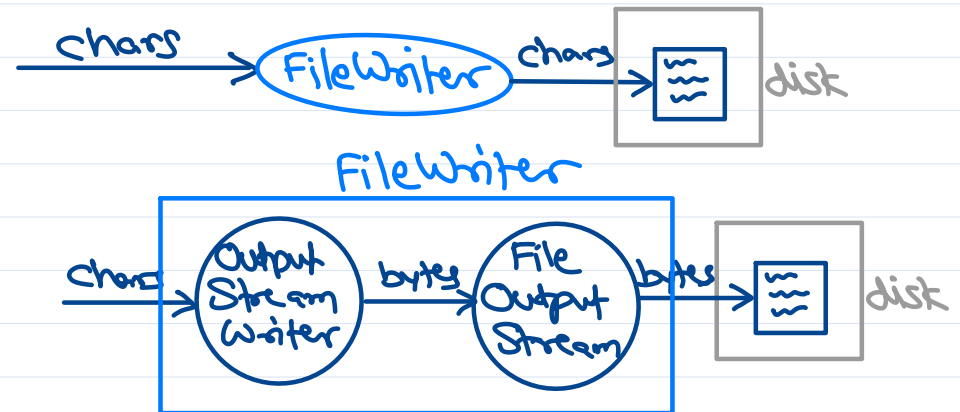
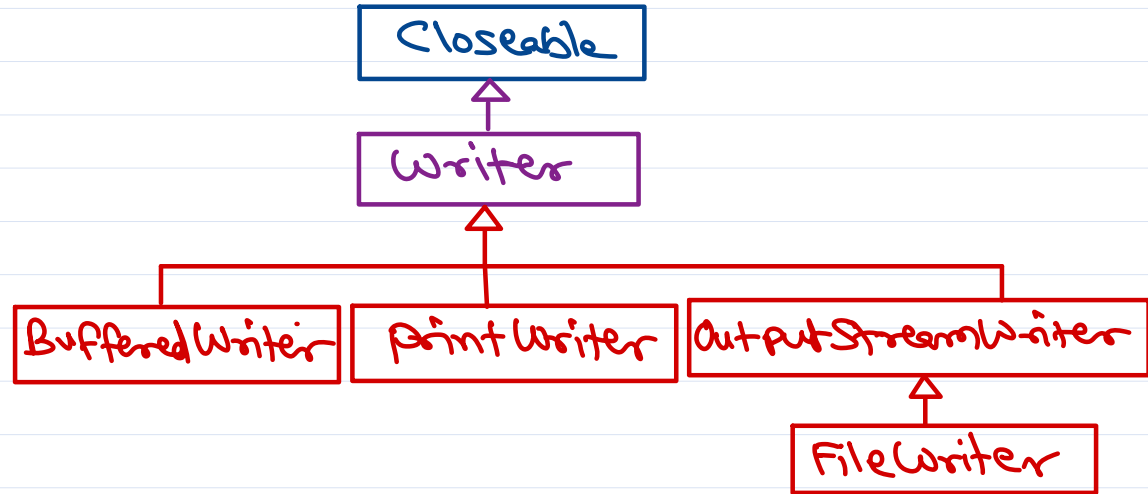
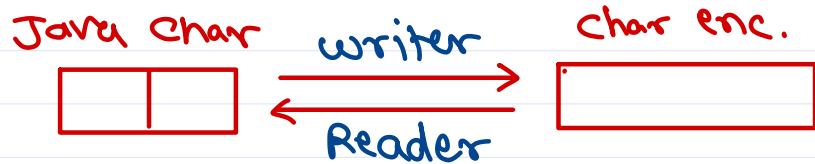
→ UTF-16

→ BE

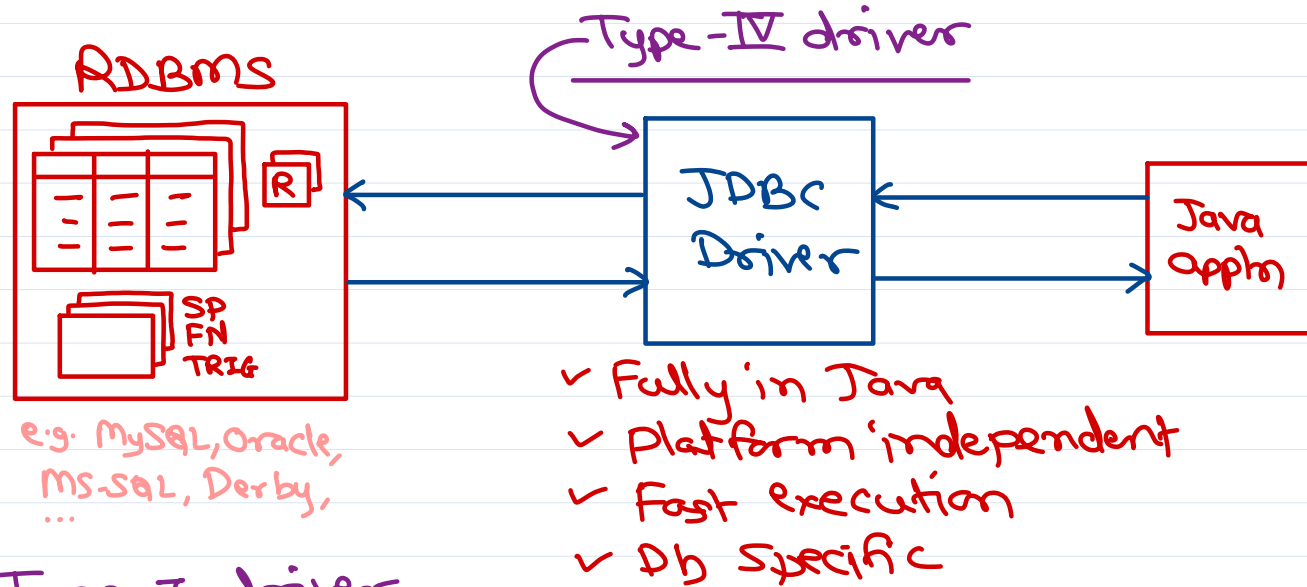
100	101
0	65

→ LE

100	101
65	0



JDBC

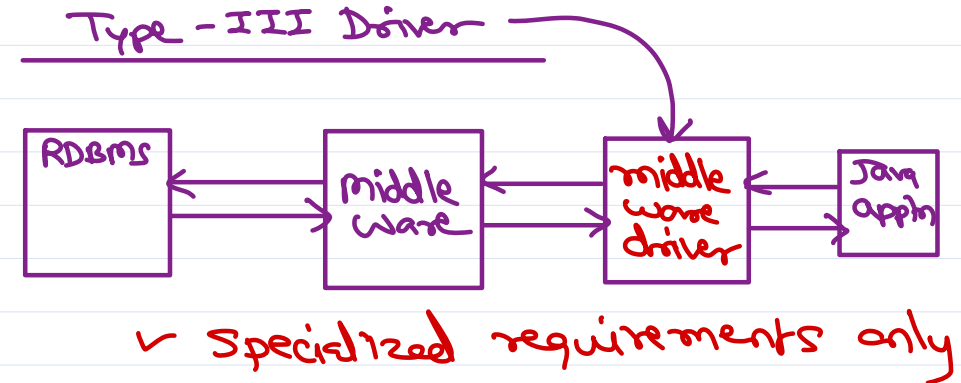
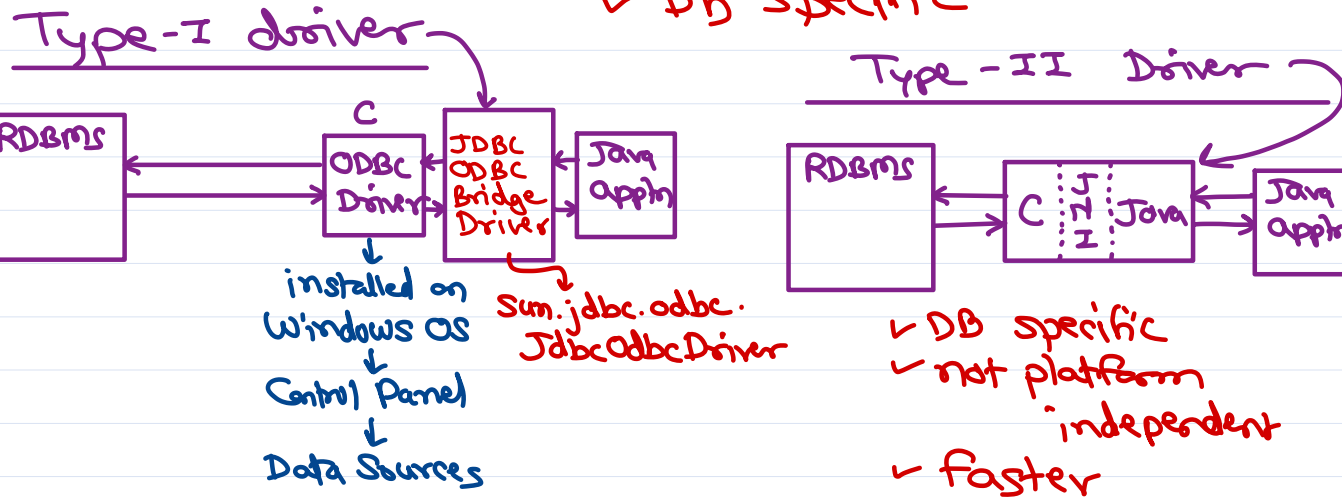


JDBC specification - interfaces & classes

- ① Driver
- ② Connection
- ③ Statement
- ④ ResultSet
- ⑤ DriverManager

java.sql package

All jdbc drivers impl these interfaces in a set of classes & publish in for jdbc driver jar.
e.g. mysql-connector-j-xyz.jar



JDBC steps

① Add JDBC driver in Java project/classpath.

Eclipse → Java Project → Properties → Java Build Path → Libraries → Add external Jar... → Select jdbc driver jar
to classPath
→ OK

② Load & register JDBC driver class.

```
Class.forName("driverClass Name");
```

③ Create db connection.

```
Connection con = DriverManager.getConnection("dbUrl", "dbUser", "dbPasswd");
```

④ Create statement to execute SQL query.

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

⑤ Execute SQL query and process the result.

OR

```
int cnt = stmt.executeUpdate("non-select query");
```

```
ResultSet rs = stmt.executeQuery("select query");
```

```
while (rs.next()) {  
    val1 = rs.getInt("col1");  
    val2 = rs.getString("col2");  
    ...  
}
```

```
rs.close();
```

⑥ Close statement & connection.

```
stmt.close();  
con.close();
```





Thank you!

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