

Day 18

📅 Created	@Mar 31, 2021
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☰ Tags	Java

[XML Enabled EDI](#)

[Database](#)

[JDBC](#)

[JDBC Driver](#)

[Driver Types](#)

[JDBC URLs](#)

[How to make Connection](#)

[Query](#)

[How to query the Database](#)

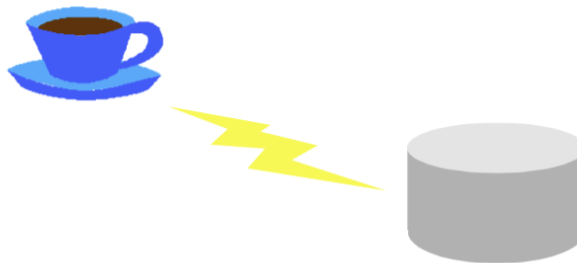
XML Enabled EDI

- HTTP

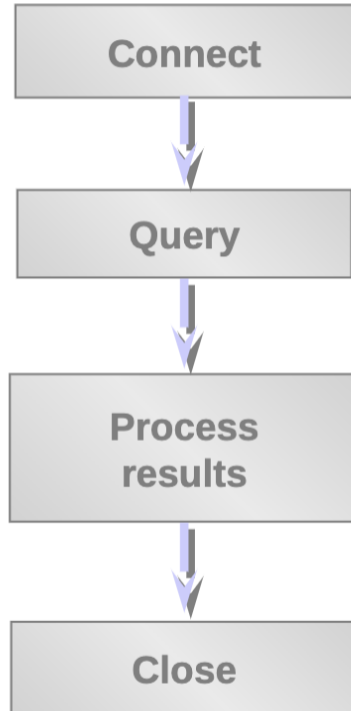
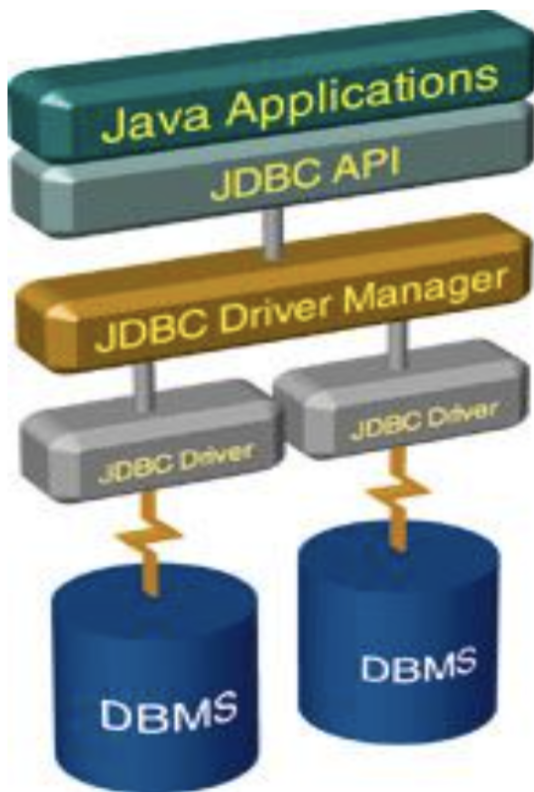
Database

JDBC

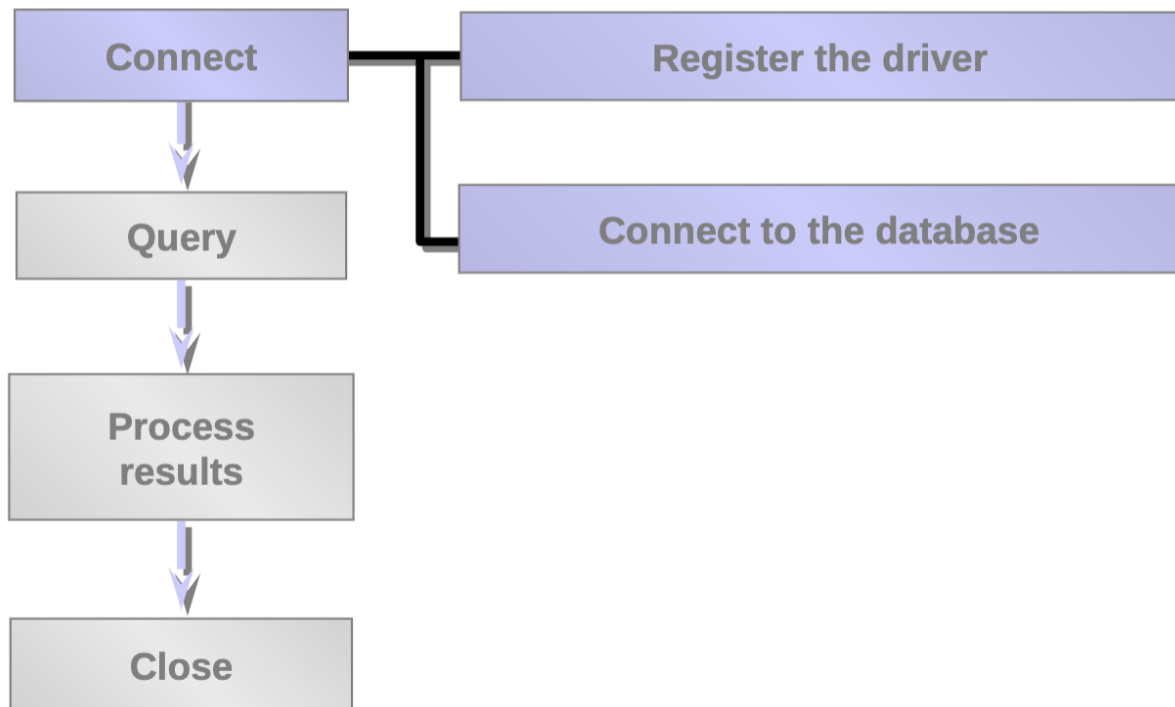
- JDBC is a standard interface for connecting to relational databases from Java
- The JDBC classes and interfaces are in the `java.sql` package



Architecture and Querying With JDBC

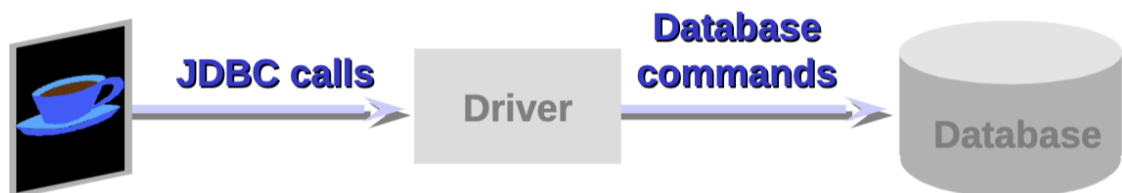


Stage 1: Connect



JDBC Driver

- Is an interpreter that translates JDBC method calls to vendor-specific database commands
- Implements interfaces in java.sql
- Can also provide a vendor's extensions to the JDBC standard

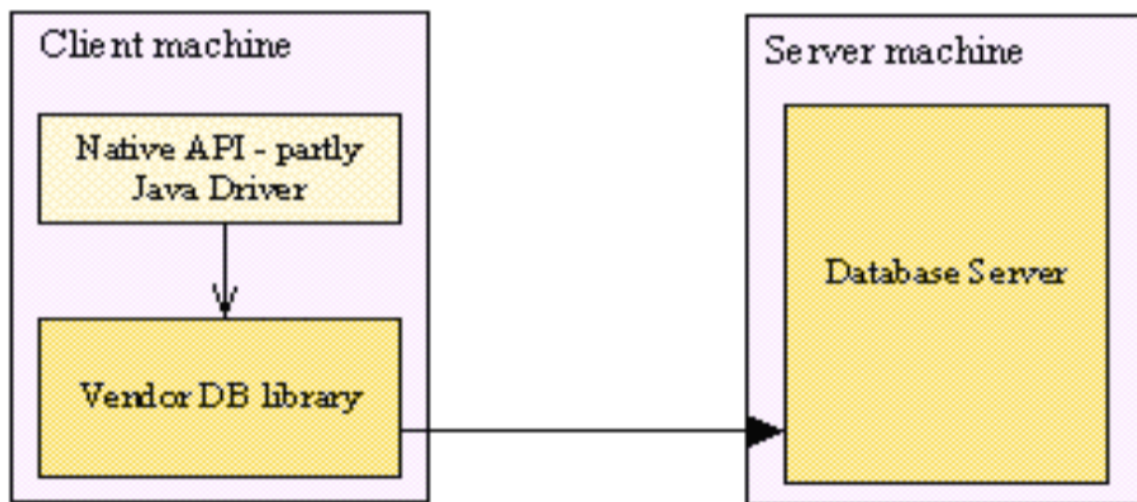


Driver Types

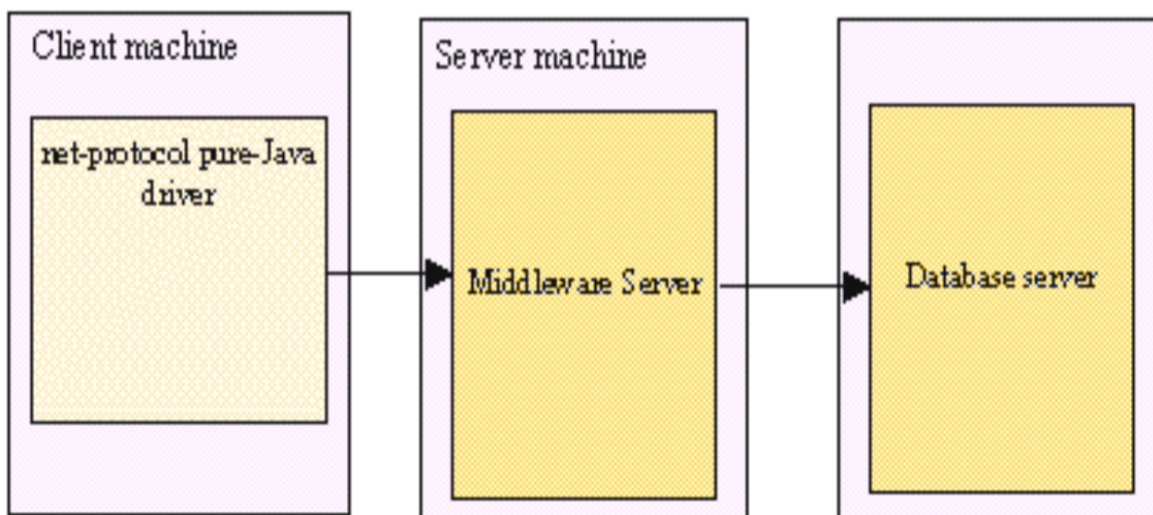
- Type 1 (JDBC-ODBC Bridge Driver)



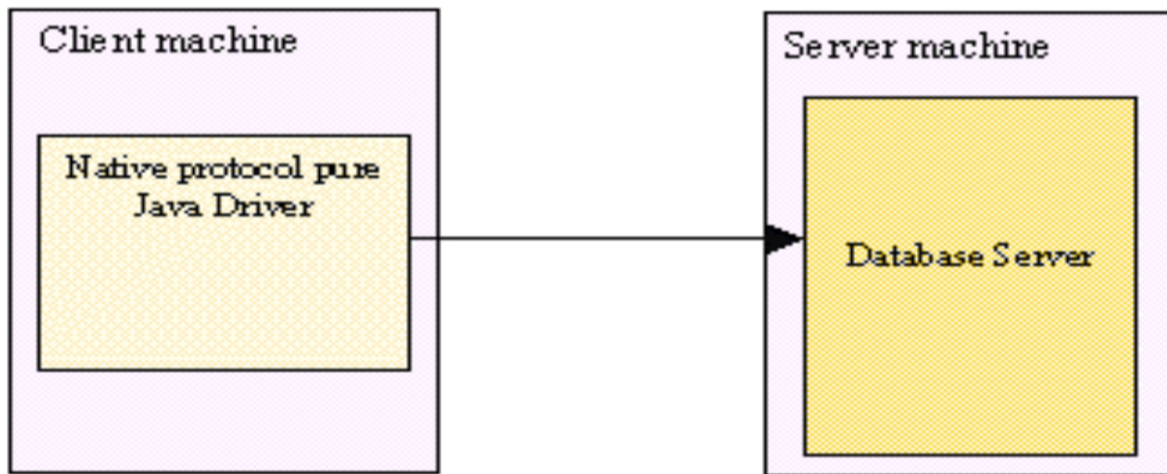
- Type 2 (Native JDBC Driver)



- Type 3 (All Java JDBC Net Drivers)

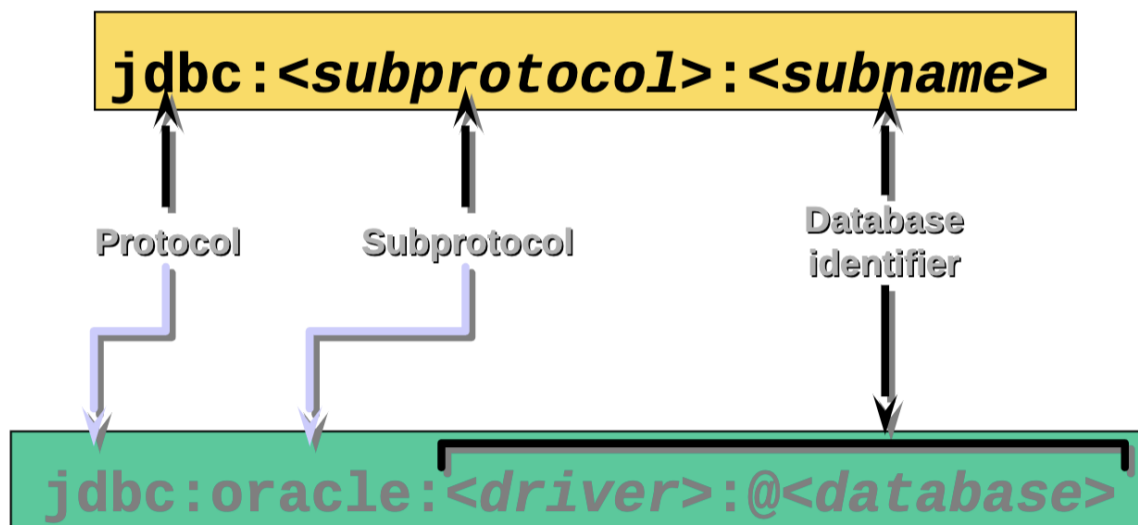


- Type 4 (Native Protocol All Java Drivers)



JDBC URLs

- JDBC uses a URL to identify the database connection.



- JDBC-ODBC driver

```
jdbc:odbc:jdbcodbcDriverDsn
```

- OCI Driver

```
jdbc:oracle:oci8:@<TNSNAMES Entry>
```

How to make Connection

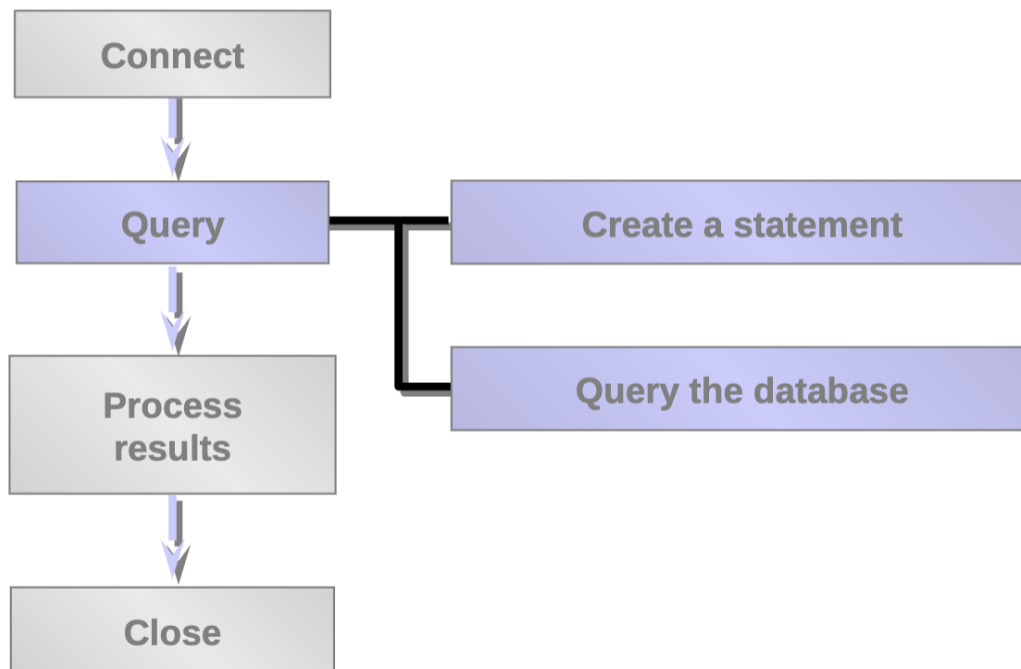
- Register the driver

```
Class c = Class.forName("oracle.jdbc.driver.OracleDriver");  
  
Class c = Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
```

- Connect to the database

```
Connection conn = DriverManager.getConnection(URL,userid,password);  
Connection conn = DriverManager.getConnection("jdbc:oracle:thin:@myhost:1521:orcl",  
"scott", "tiger");
```

Query



- Statement Object
 - A Statement object sends your SQL statement to the database
 - You need an active connection to create a JDBC statement
 - Statement has three methods to execute a SQL statement:
 - `executeQuery()` for QUERY statements
 - `executeUpdate()` for INSERT, UPDATE, DELETE, or DDL statements
 - `execute()` for either type of statement

How to query the Database

- Create an empty statement object

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

- Execute the statement

```
ResultSet rset = stmt.executeQuery(statement);
int count = stmt.executeUpdate(statement);
boolean isQuery = stmt.execute(statement);
```

- Example

- Execute Select Statement

```
Statement stmt = conn.createStatement();
ResultSet rset = stmt.executeQuery ("select RENTAL_ID, STATUS from ACME_RENTALS");
```


- Execute Delete Statements

```
Statement stmt = conn.createStatement();
int rowcount = stmt.executeUpdate ("delete from ACME_RENTAL_ITEMS where rental_id = 1011");
```

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