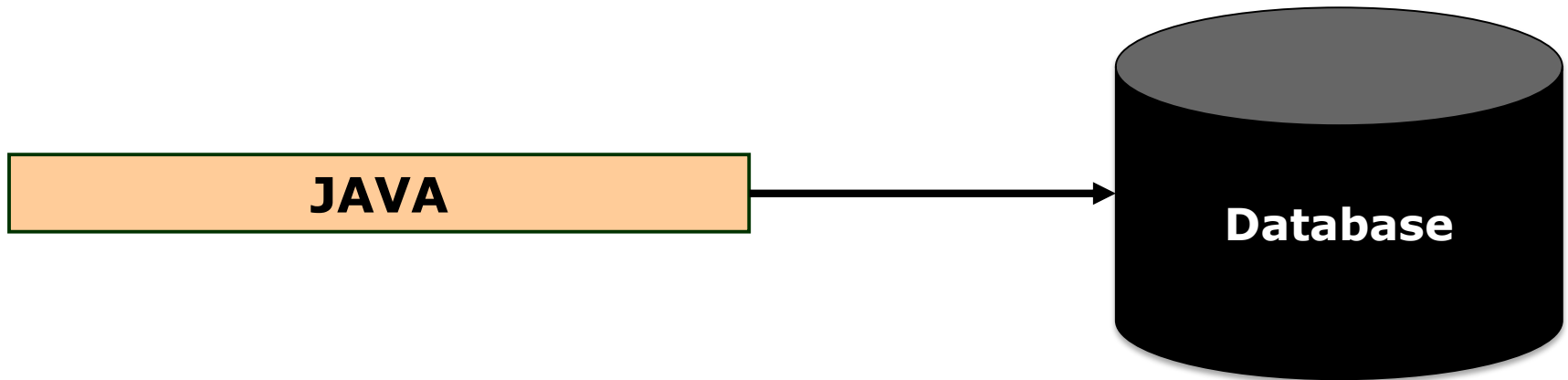


---

# JDBC

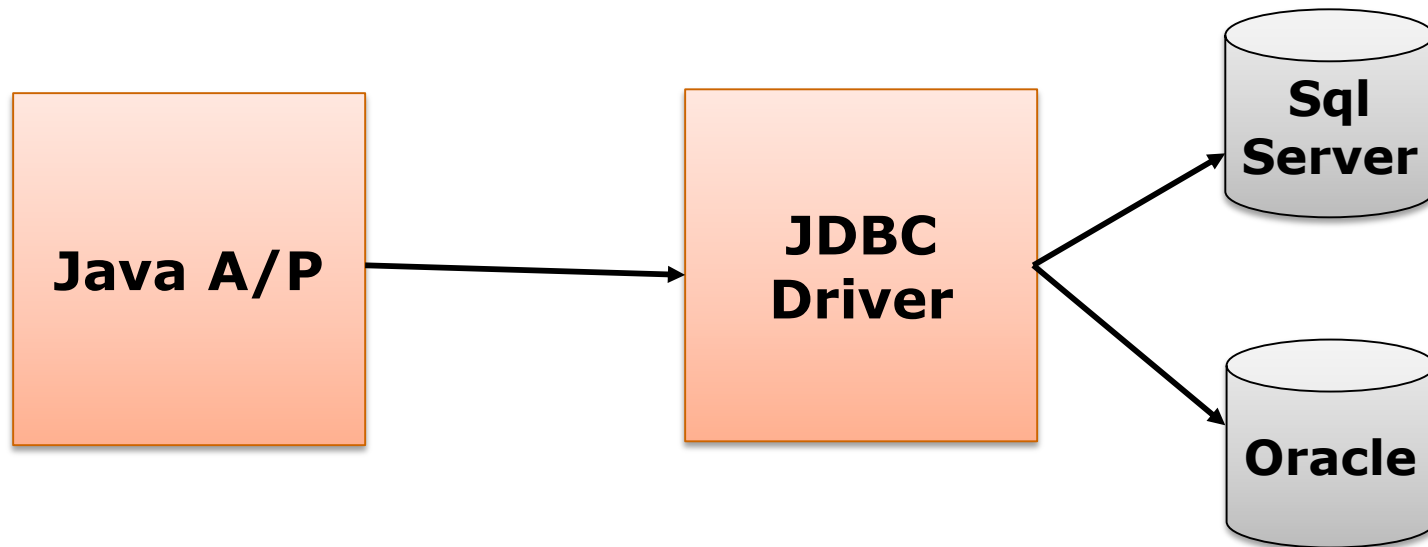
# Java DataBase Connectivity

---



# JDBC driver

---



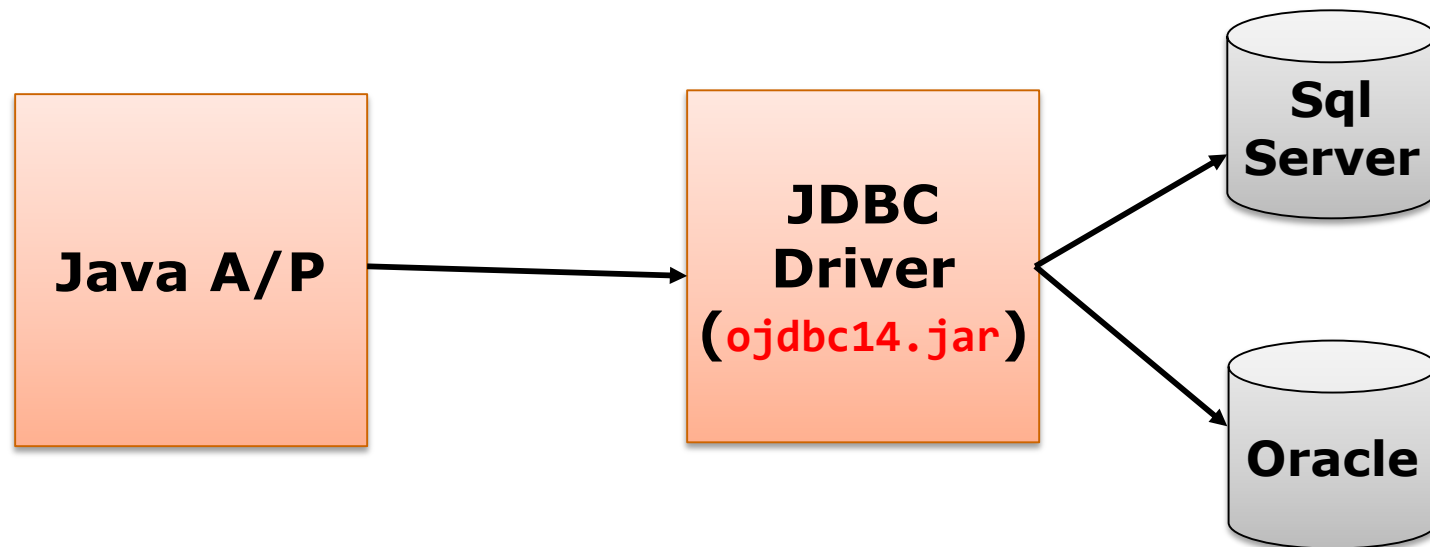
# JDBC Drivers

---

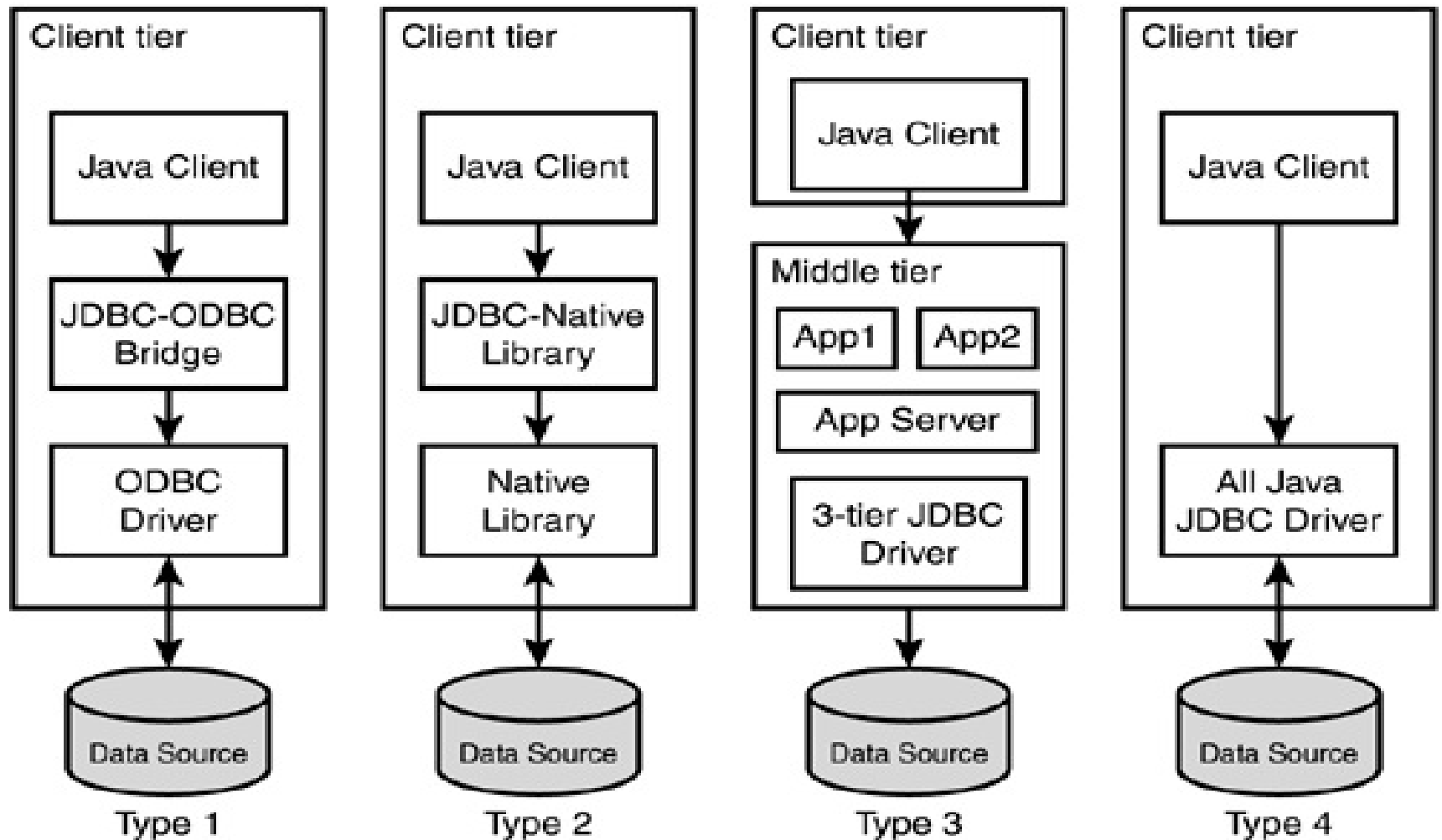
- 1) JDBC-ODBC bridge driver
- 2) Native-API driver (partially java driver)
- 3) Network Protocol driver (fully java driver)
- 4) Thin driver (fully java driver)

# JDBC driver

---




# JDBC Drivers



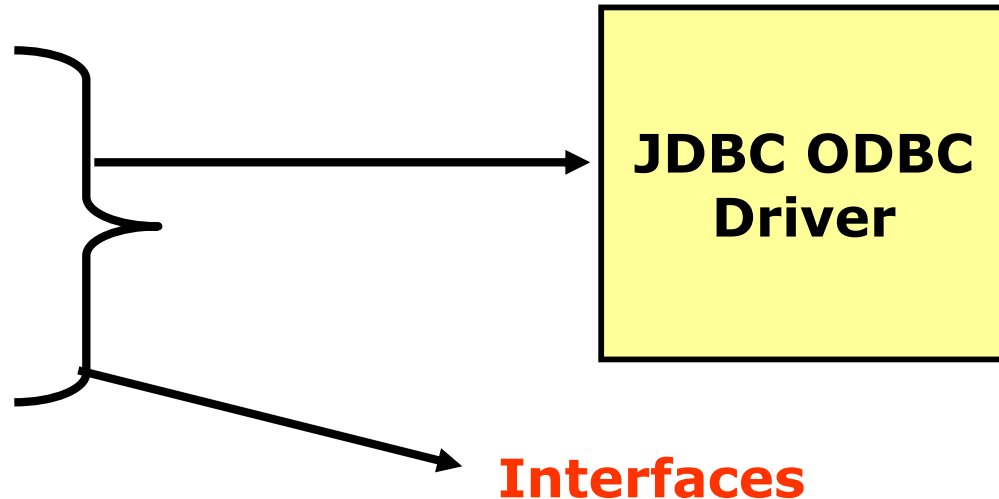
# JDBC API

---

▣ java.sql.\*;

DriverManager  **Class**

Connection  
Statement  
ResultSet



# JDBC Steps

---

- 1) Loading the Driver
- 2) Creating Connection
- 3) Creating Statement
- 4) Executing Statements



# Procedures

---

```
Class.forName("oracle.jdbc.driver.OracleDriver");
```

DriverManager

Connection getConnection("String");

Statement createStatement();

int executeUpdate(String);

ResultSet executeQuery(String);

# Application

```
1. Class.forName("oracle.jdbc.driver.OracleDriver");

2. Connection con=DriverManager.getConnection
    ("jdbc:oracle:thin:@127.0.0.1:1521:XE","test","sql");

3. Statement st=con.createStatement();

4. String query="insert into emp1 values('Senthil','cbe')";

5. st.executeUpdate(query);

6. con.close();
```

# Types of Statements

---

- Statement
- PreparedStatement
- CallableStatement

---

```
select * from emp1;
```

```
select * from emp1 where eid=1;
```

```
insert into emp1 values('hari','cbe');
```

```
update emp1 set city='bangalore' where eid=2;
```

```
create table employee(eid number,ename varchar2(15),city varchar2(15));
```

```
create or replace procedure setEmployeeDetails(eid number,ename varchar2,city varchar2)
is
    begin
        insert into employee values(eid,ename,city);
        commit;
    end;
/
```