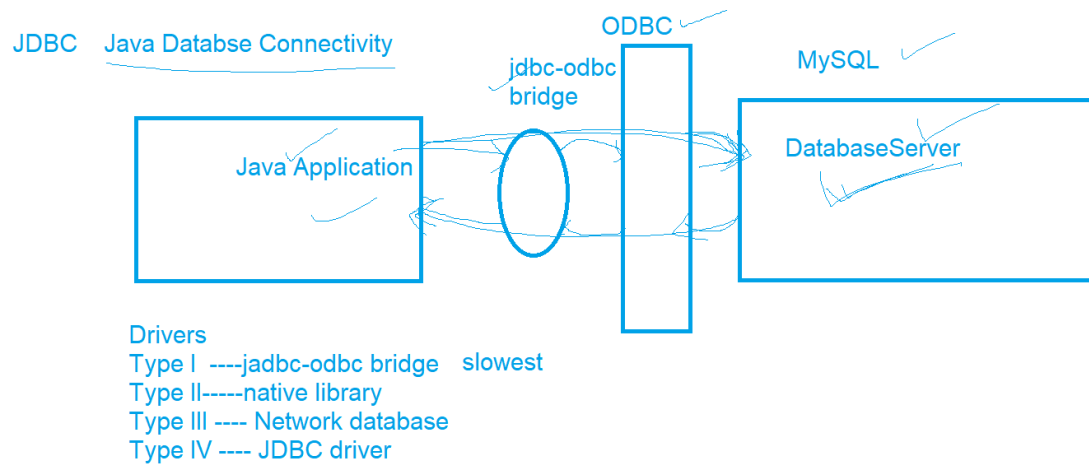
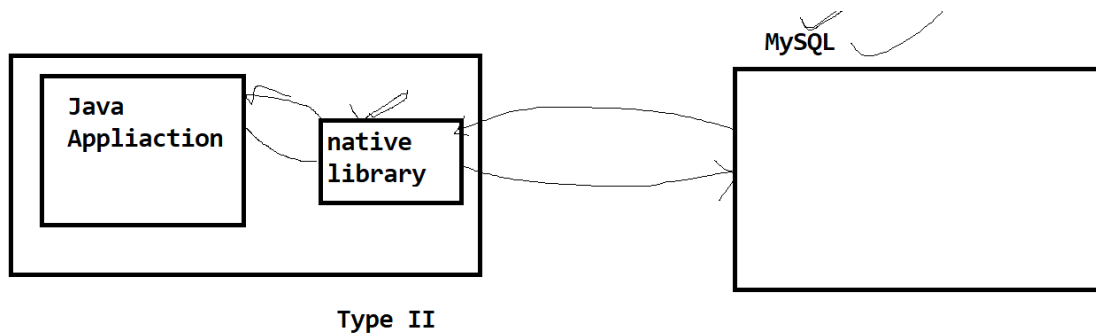


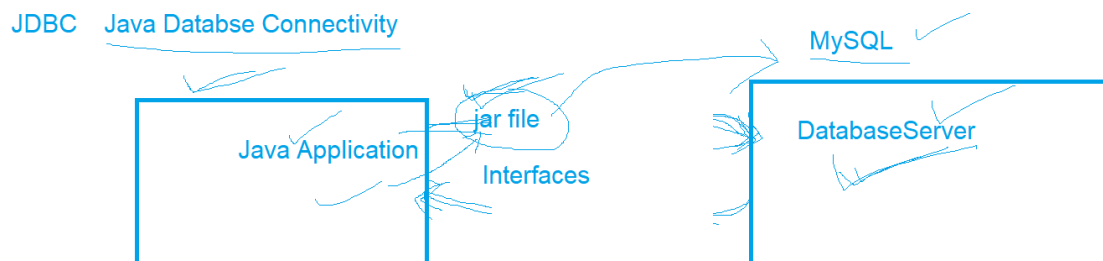
Type -I



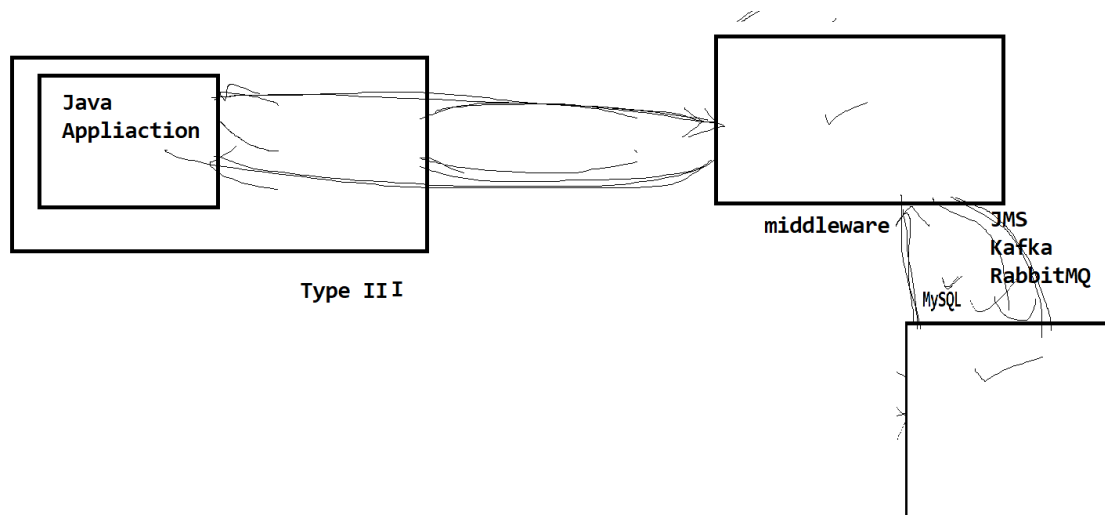
Type -II



Type IV



Type III



Steps to connect to database

1. Register the driver


```
DriverManager.registerDriver(new com.mysql.cj.jdbc.Driver());
Class.forName("com.mysql.cj.jdbc.Driver");
```
2. getConnection
3. String url= jdbc:mysql://localhost:3306/test


```
Connection conn=DriverManager.getConnection(url,username,password);
```
4. create a statement


```
//To call different queries using same statement
Statement st=conn.createStatement();
PreparedStatement pst=conn.prepareStatement("select * from student where sid=20");
database will generate plan of execution---> and then the query will get executed.
```

```
CallableStatement cs =conn.prepareCall({call getCnt(?)});
```
5. execute statement


```
st.executeQuery(String);---->function returns ResusltSet hence it is used with select
statement.
pst.executeQuery();
st.executeUpdate(String ); -----function returns integer hence use it with DML
operatiron (insert, delete, update)
st.execute() ----- function return true or false used with callable statement
```
6. Navigate through ResultSet.


```
ResulSet rs=sr.executeQuery("select * from product");
rs.next() -----will return true -->if next row is found and it will return false if next row not
found.
```

```
while(rs.next()){
    rs.getInt(1);
    rs.getString(2)
```

```
}
```

7. close the connection
conn.close();

stored procedure for callable statement

create procedure getcnt1(p_pid int,out p_cnt int)

-> begin

-> select count(*) into p_cnt

-> from myproduct

-> where pid>p_pid;

-> end//