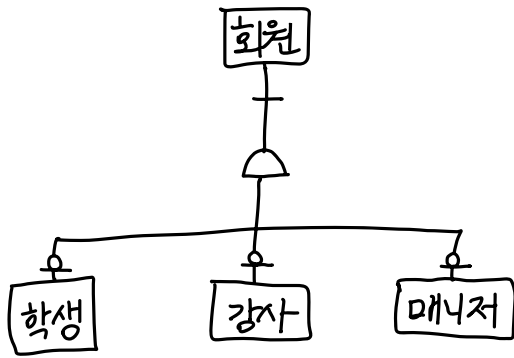


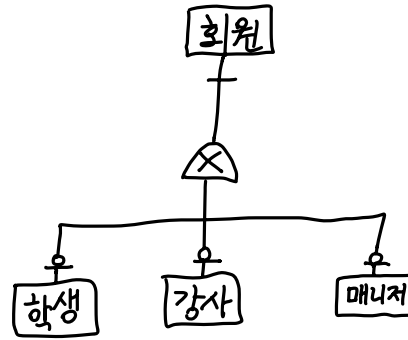
* DB 모델링 - 포함관계와 배타적 관계 (Inclusion / Exclusion)

① 포함관계



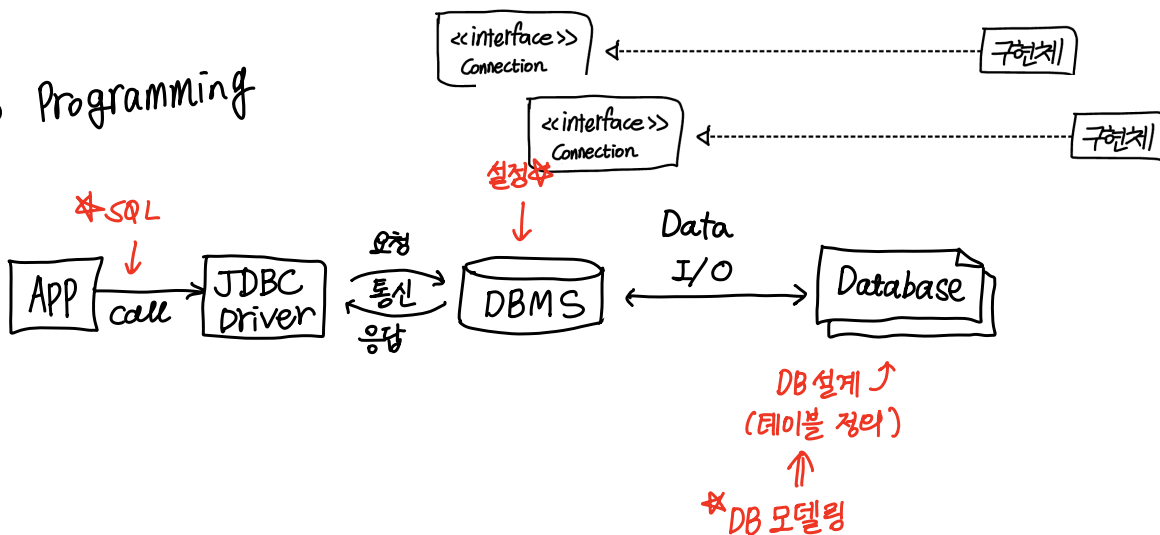
회원으로서 학생, 강사, 매니저 역할을 모두 수행할 수 있을 경우.

② 배타적 관계



회원은 학생 또는 강사 또는 매니저 중에서 한 가지 역할만 수행할 수 있는 경우

* DB Programming



* JDBC 프로그래밍

- ① Driver
- ② Driver Manager
- ③ Connection
- ④ Statement
- ⑤ ResultSet
- ⑥ PreparedStatement
- ⑦ Transaction : Commit / rollback
- ⑧ Connection Pool : DataSource

* JDBC API 와 JDBC Driver

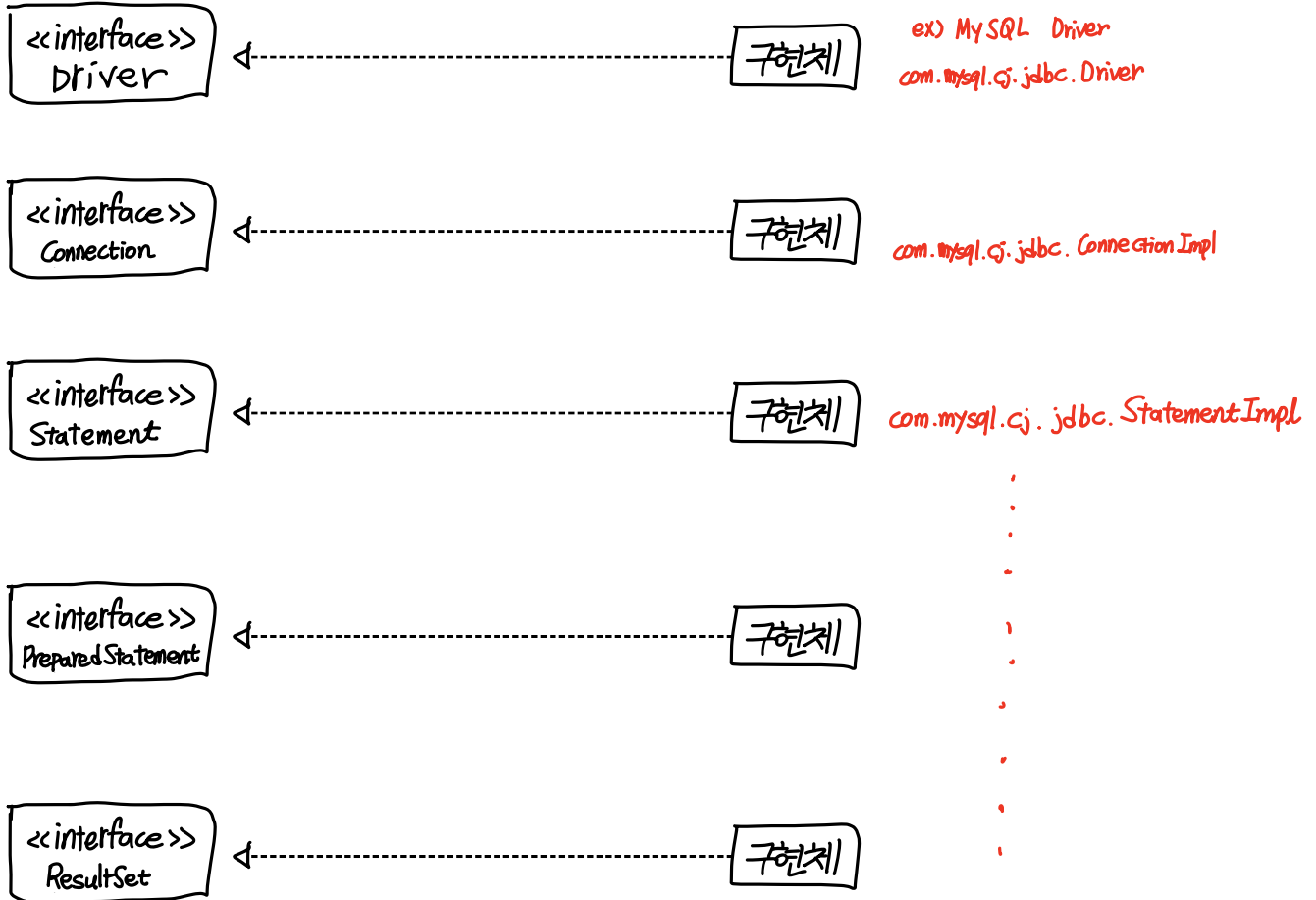
JDBC API

Java에서 제공하는 interface / class

패키지: java.sql.X 또는 javax.sql.X

JDBC Driver (.jar)

Vendor에서 제공하는 interface 구현체 및 보조 class



* Driver와 DriverManager

① Driver 구현체 등록

Driver의 인스턴스 생성

등록

<< Concrete >>
DriverManager

Driver 구현체 목록

JDBC URL	Driver Instance
jdbc:mysql	
jdbc:oracle	
⋮	⋮

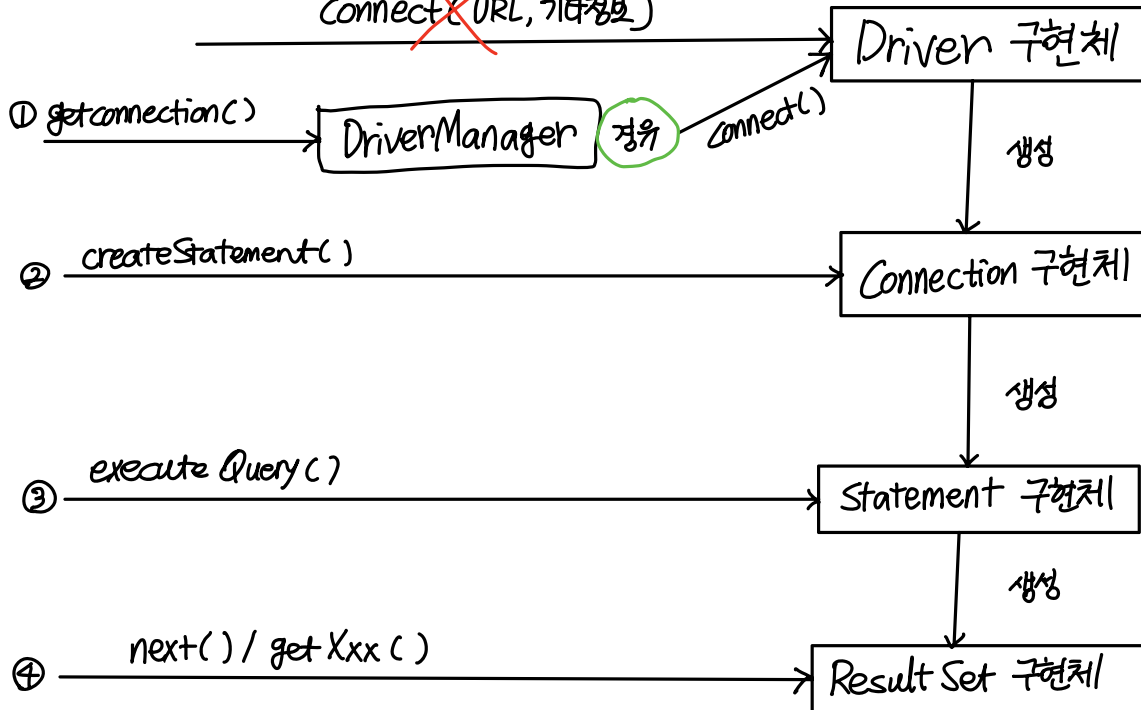
DriverManager.registerDriver(객체);

DriverManager.getDriver("JDBC URL");
Driver를 가져오는 주소

* JDBC 구현체 간의 관계

직접 사용하지 말것!

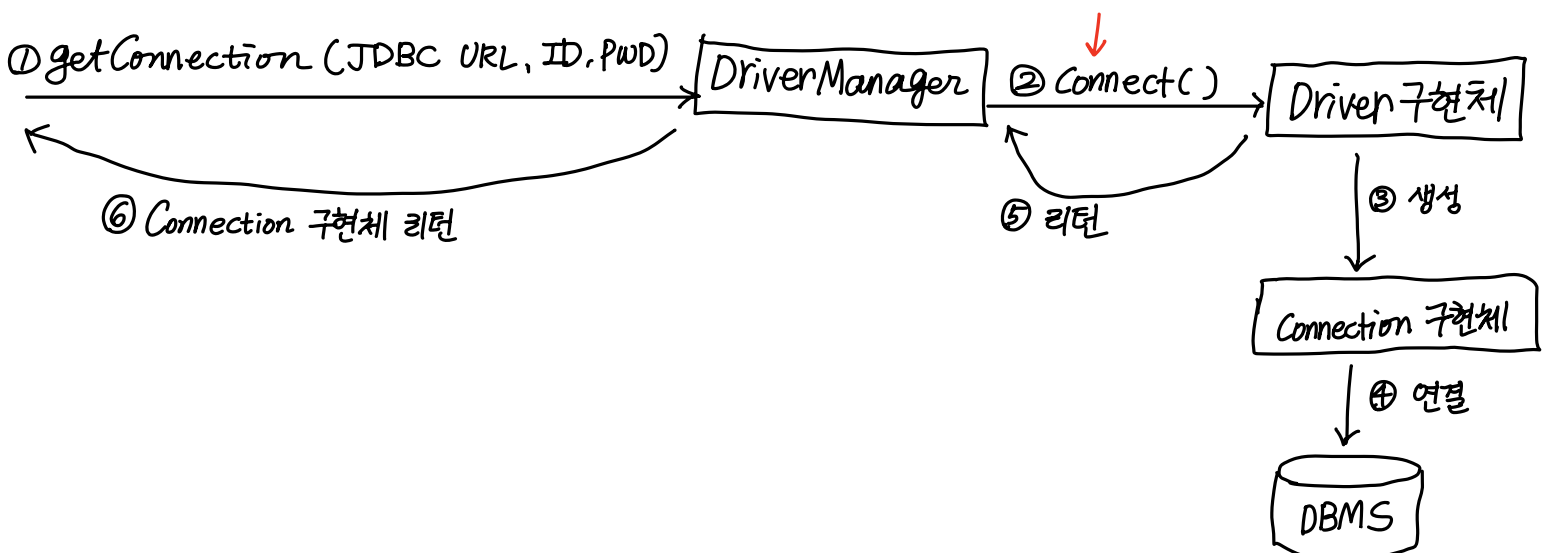
~~connect(URL, 기타정보)~~



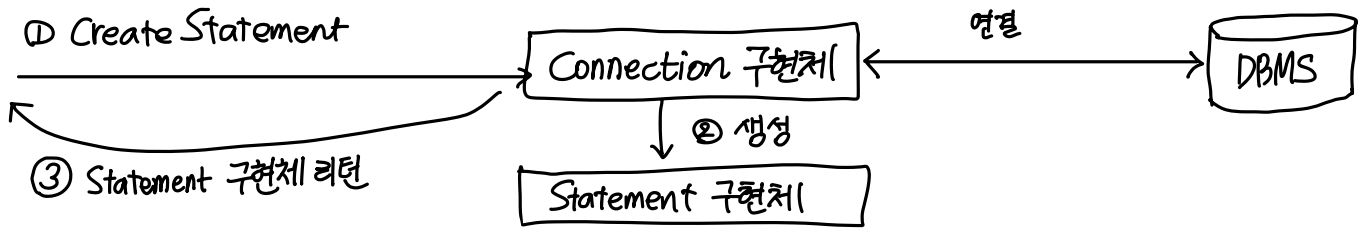
* Error : no suitable driver = 못타 or 등록안됨 (gradle)

* Connection

JDBC URL에 지정된 Driver를 찾아서

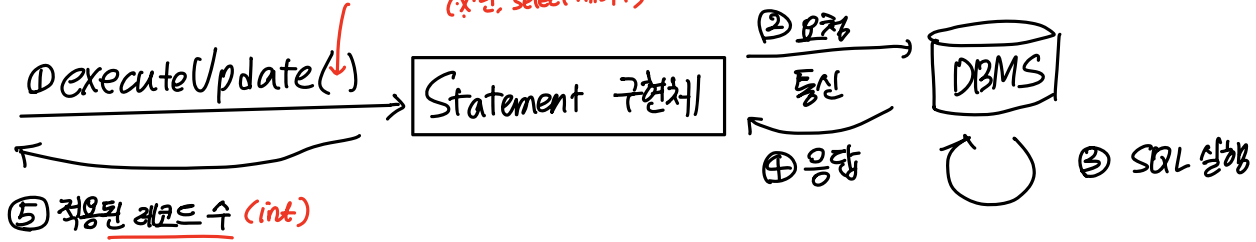


* Statement

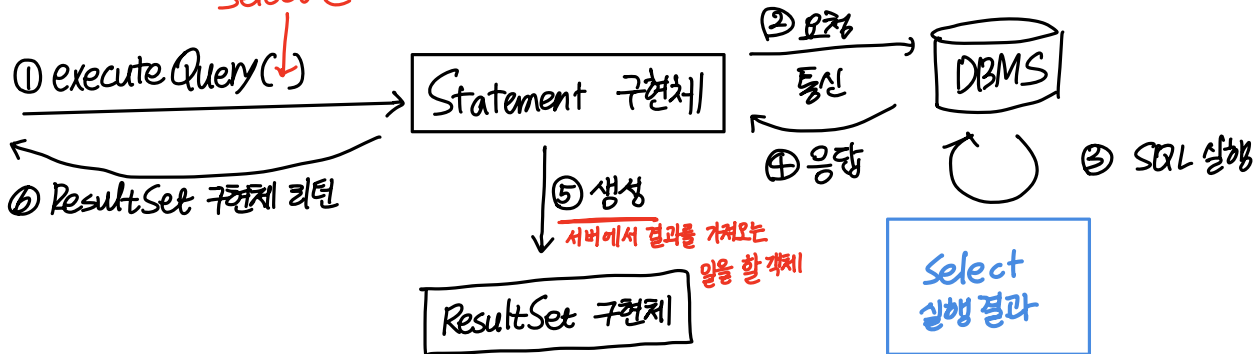


* SQL 실행

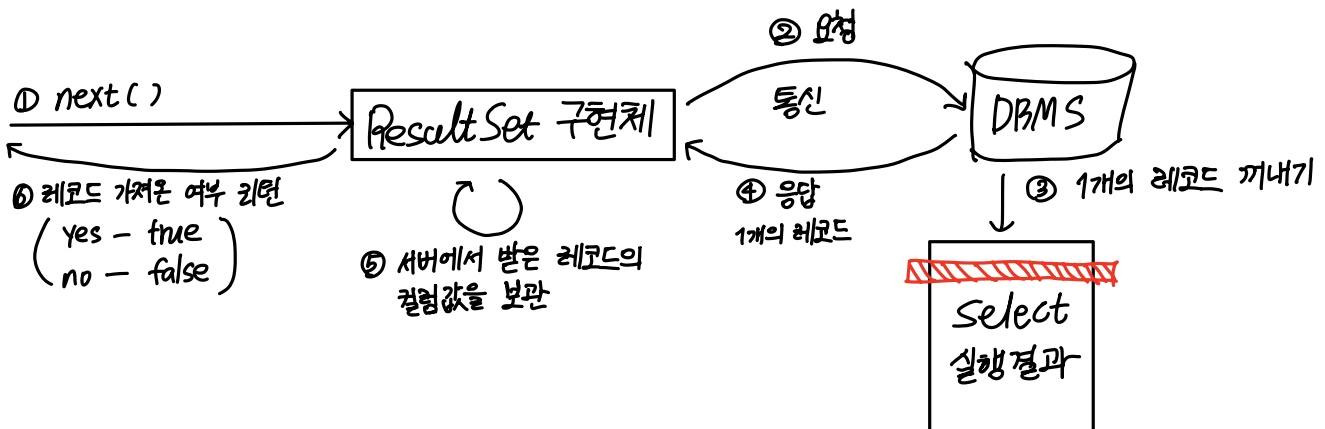
SQL 문; insert, update, delete 등
(~~이~~단, select 제외!)



Select 문



* ResultSet I



* ResultSet II

