

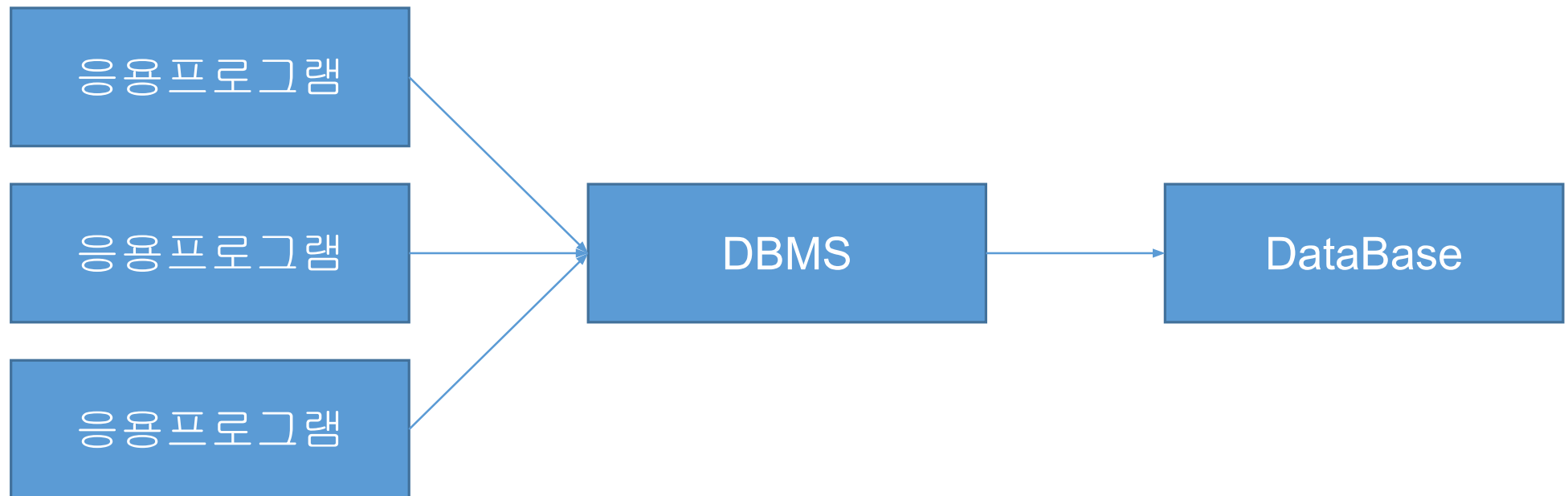
**테이터베이스 for Spring**

데이터 베이스 : 데이터의 추가, 삭제, 검색, 이동 등

DBMS : 데이터 베이스를 관리하는 도구, DataBase Management System

RDBMS(Relational DataBase Management System)

> 오라클(Oracle)



## Oracle Express 11g XE

- <https://www.oracle.com/database/technologies/xe-prior-release-downloads.html>

## sqldeveloper

- <http://www.oracle.com/technetwork/developer-tools/sql-developer/downloads/index.html>

## MySQL 5.7 & Workbench

- <https://www.mysql.com/downloads/>
- <https://downloads.mysql.com/archives/installer/>

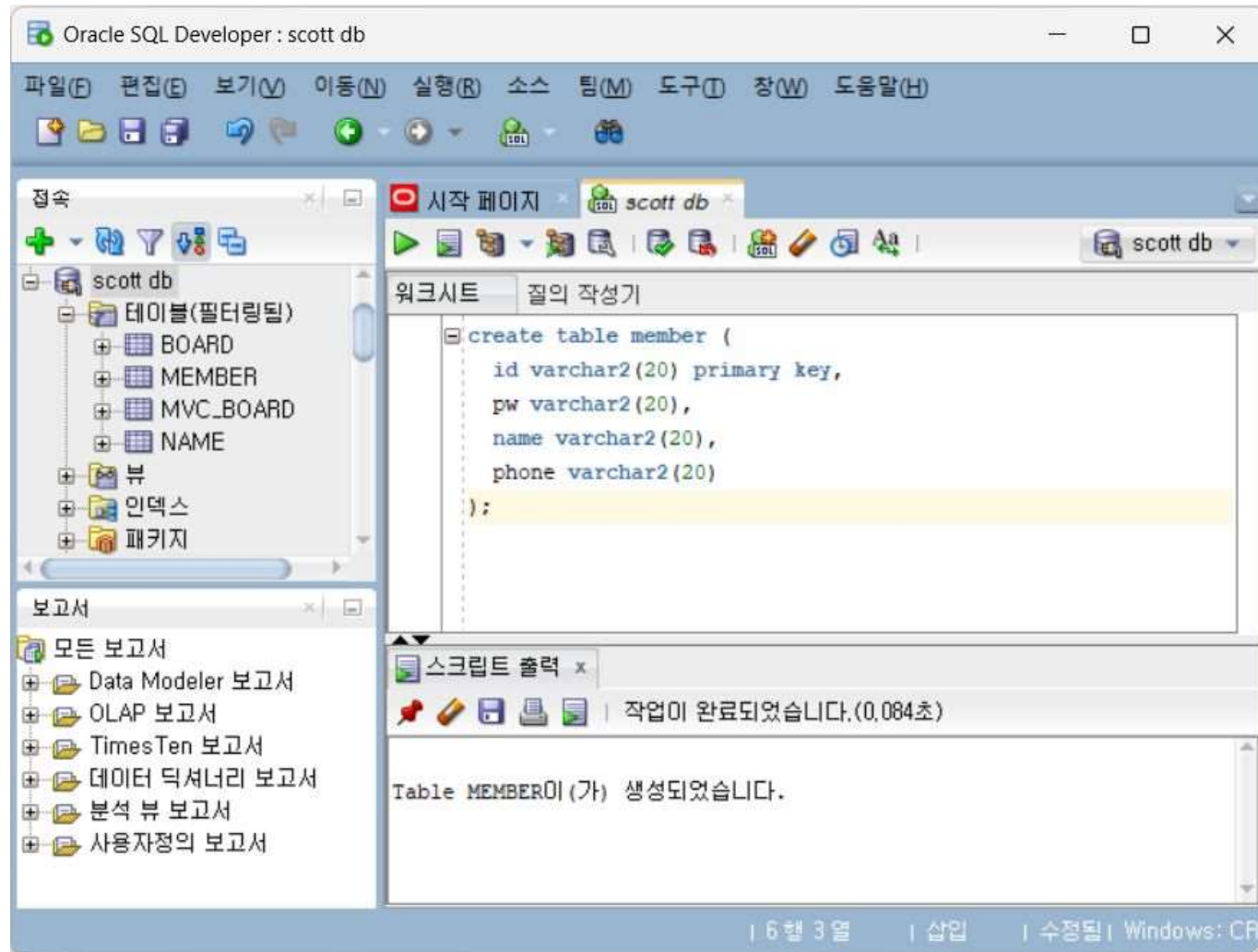
### 17-3. 기본적인 SQL문

#### 테이블 생성

- ✓ `create table` 테이블명  
(컬럼명 자료형);

#### 자료형

- ✓ `number` : 수치 데이터형
- ✓ `char` : 고정 문자열
- ✓ `varchar2` : 가변길이  
문자열



테이블 검색

Select \* from tab;

The screenshot shows the Oracle SQL Developer interface. On the left, the 'Connections' pane shows a connection to 'scott db'. The 'Database Explorer' pane shows the schema structure, including tables like BOARD, MEMBER, MVC\_BOARD, and NAME. The 'Query Editor' pane contains the following SQL code:

```
create table member (  
  id varchar2(20) primary key,  
  pw varchar2(20),  
  name varchar2(20),  
  phone varchar2(20)  
);  
select * from tab;
```

The 'Results' pane at the bottom shows the output of the query, displaying a list of tables with their names, types, and cluster IDs.

| TNAME       | TABTYPE | CLUSTERID |
|-------------|---------|-----------|
| 1 BOARD     | TABLE   | (null)    |
| 2 MEMBER    | TABLE   | (null)    |
| 3 MVC_BOARD | TABLE   | (null)    |
| 4 NAME      | TABLE   | (null)    |

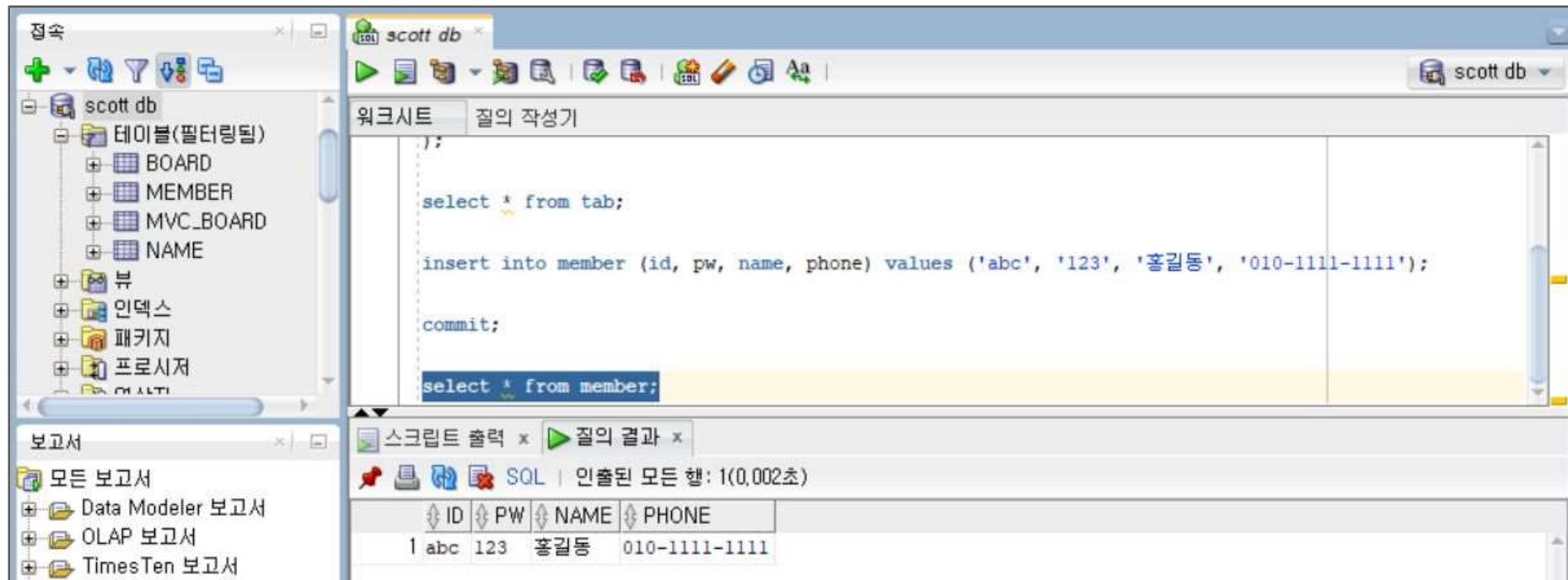
## 레코드 추가

Insert into 테이블이름 (컬럼이름, 컬럼이름, ..... ) values (데이터, 데이터, ....);  
commit;



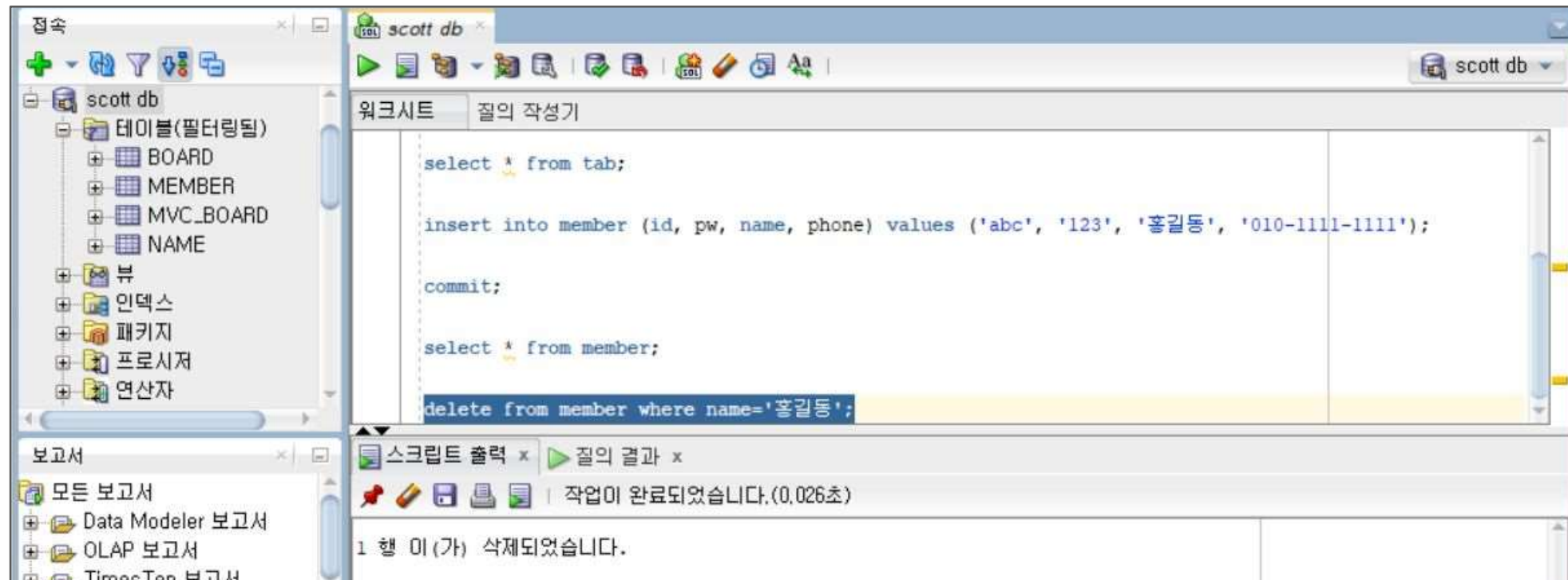
레코드 검색

select 컬럼이름 from 테이블이름



레코드 삭제

delete from 테이블이름 (조건)

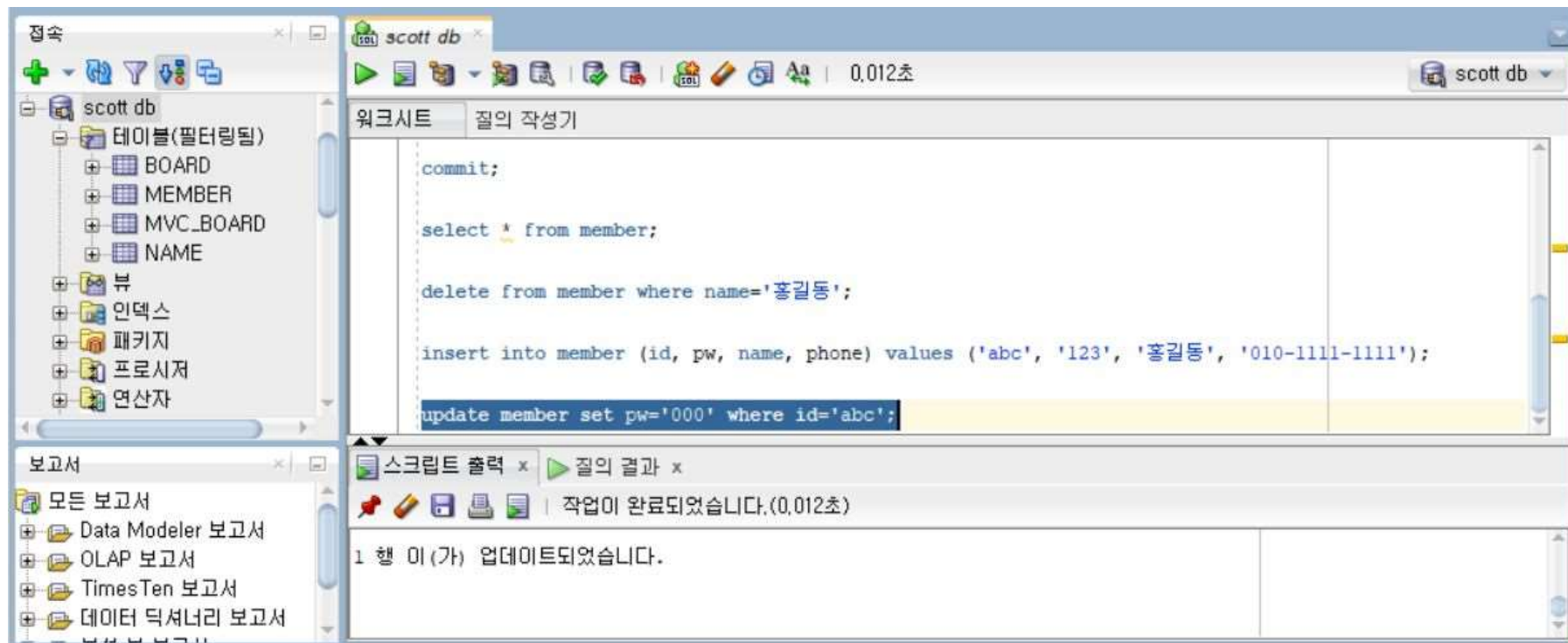




## 데이터 변경

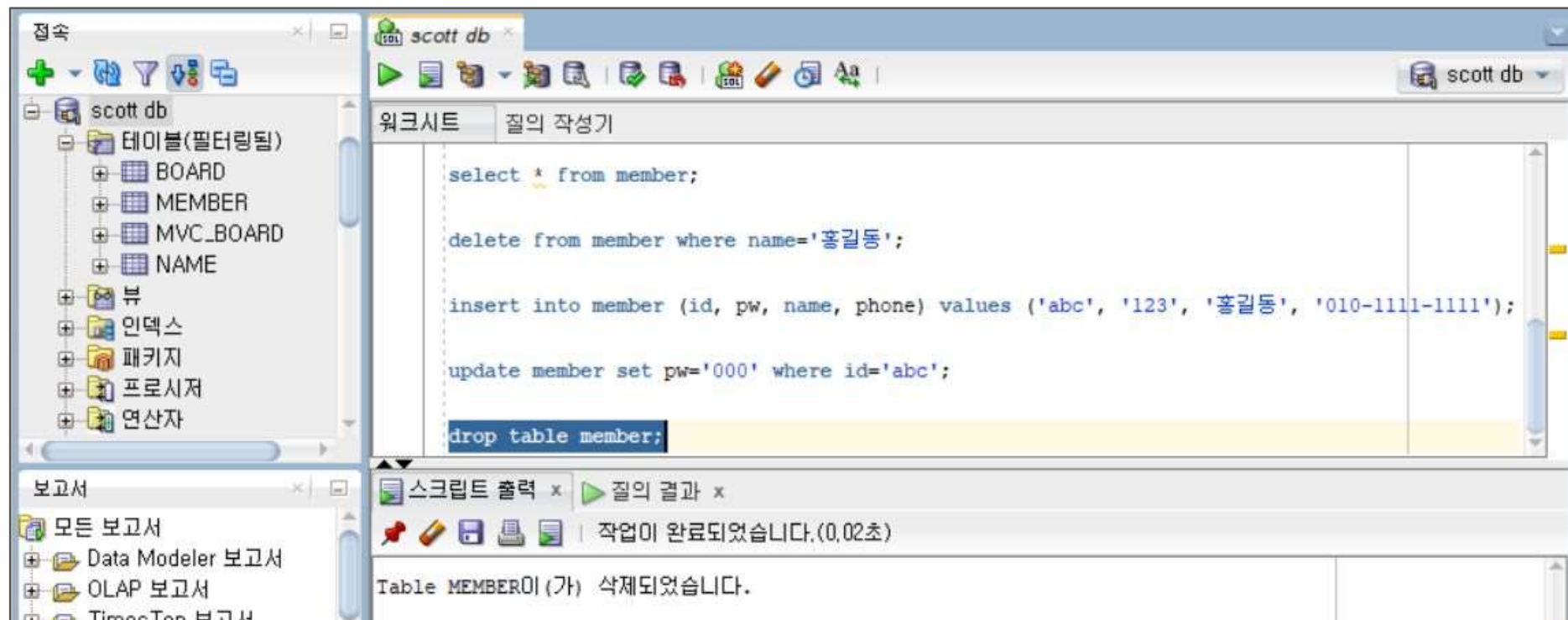
update 테이블이름 set 컬럼이름=값, 컬럼이름=값, .... 조건

[조건] where 컬럼이름=값



테이블 삭제

drop table 테이블이름





## 요약

create table 테이블명 (컬럼명 자료형);

select \* from tab;

insert into 테이블이름(컬럼이름, 컬럼이름, ... ) values (데이터, 데이터, ...);

select 컬럼이름 from 테이블이름;

delete from 테이블이름 (조건);

update 테이블이름 set 컬럼이름=값, 컬럼이름=값, ... 조건;

[조건] where 컬럼이름=값

drop table 테이블이름;

commit;