



[오라클 실습] SQL

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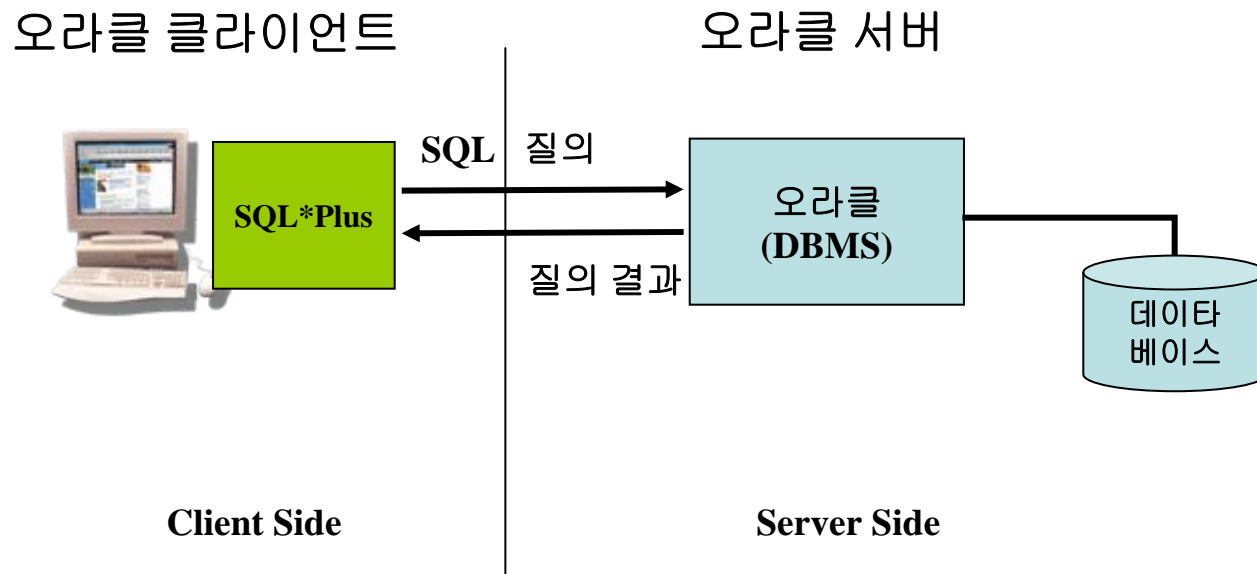
오라클 서버 접속 (1/2)



❖ SQL*Plus

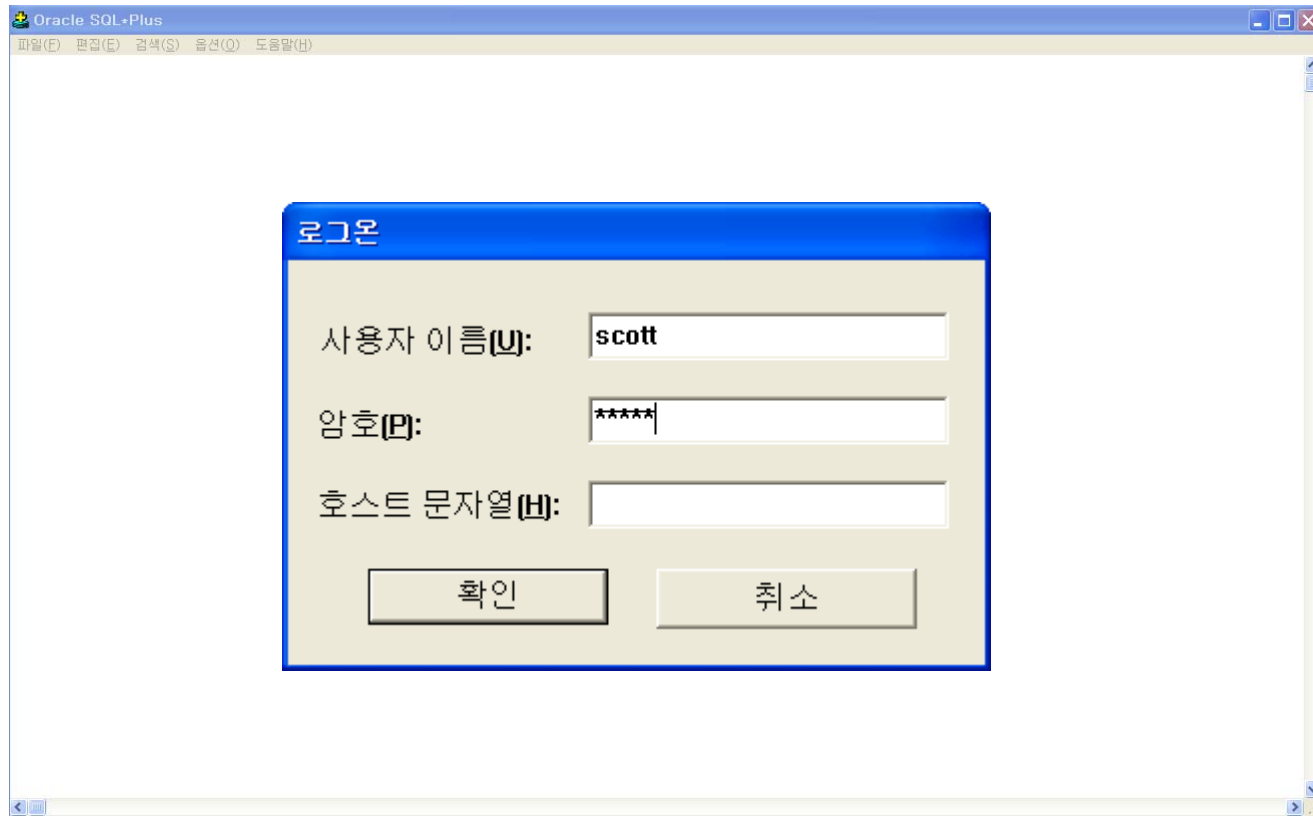
- ◆ 사용자가 SQL문을 이용하여 오라클 데이터베이스에 접속할 수 있도록 인터페이스를 지원하는 도구

❖ 오라클 서버 접속



오라클 서버 접속 (2/2)

- ❖ 오라클 SQL*Plus를 이용하여 접속
 - ◆ 사용자 이름 : scott
 - ◆ 암호 : tiger



기본 테이블 생성 (1/2)



- ❖ 작업
 - ◆ 테이블 생성 (CREATE TABLE)
 - ◆ 기본 튜플 삽입 (INSERT)
- ❖ 실행 방법
 - ◆ SQL>@prepare.sql

```
Oracle SQL*Plus
파일(F) 편집(E) 검색(S) 옵션(O) 도움말(H)

SQL*Plus: Release 10.2.0.1.0 - Production on 월 10월 29 18:35:58 2007

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다음에 접속됨:
Oracle Database 10g Enterprise Edition Release 10.2.0.1.0 - Production
With the Partitioning, OLAP and Data Mining options

SQL> host
SQL> @prepare.sql
```



기본 테이블 생성 (2/2)



❖ 작업 테이블 스키마

- employee(employee_name varchar2(15), street varchar2(10), city varchar2(10));
- works(employee_name varchar2(15), company_name varchar2(15), salary number(9));
- company_name varchar2(15), salary number(9));
- company(company_name varchar2(15), city varchar2(10));
- manages(employee_name varchar2(15), manager_name varchar2(15));

- 테이블 확인

```
SQL> desc employee;
```

이름	길이?	유형
EMPLOYEE_NAME		VARCHAR2(15)
STREET		VARCHAR2(10)
CITY		VARCHAR2(10)

```
SQL> desc works;
```

이름	길이?	유형
EMPLOYEE_NAME		VARCHAR2(15)
COMPANY_NAME		VARCHAR2(15)
SALARY		NUMBER(9)

```
SQL> desc company;
```

이름	길이?	유형
COMPANY_NAME		VARCHAR2(15)
CITY		VARCHAR2(10)

```
SQL> desc manages
```

이름	길이?	유형
EMPLOYEE_NAME		VARCHAR2(15)
MANAGER_NAME		VARCHAR2(15)



Sql*Plus 명령어 (1/4)

- ❖ SQL>spool 화일명.lst
 - ◆ 작업한 내용(결과 포함)을 화일에 저장
- ❖ SQL>spool off

result.lst 화일 확인

result.lst 화일 생성

```
203.252.164.200 (9) - SecureCRT
File Edit View Options Transfer Script Tools Window Help
SQL> spool result.lst
SQL> select * from employee;

EMPLOYEE_NAME  STREET  CITY
-----
CLARK           Newtown New york
JONES           Newtown New york
SCOTT           Congress Boston
KING            Canyon  San Diego
ADAMS           Summer  LosAngeles
FORD            Broad   Columbus
JAMES           Canyon  San Diego
SCALET          Summer  LosAngeles
Ray             Canyon  San Diego
Erold           Broad   Columbus

10 rows selected.

SQL> spool off
SQL>
```

```
203.252.164.200 (9) - SecureCRT
File Edit View Options Transfer Script Tools Window Help
SQL> host vi result.lst
SQL> select * from employee;

EMPLOYEE_NAME  STREET  CITY
-----
CLARK           Newtown New york
JONES           Newtown New york
SCOTT           Congress Boston
KING            Canyon  San Diego
ADAMS           Summer  LosAngeles
FORD            Broad   Columbus
JAMES           Conyon  San Diego
SCALET          Summer  LosAngeles
Ray             Canyon  San Diego
Erold           Broad   Columbus

10 rows selected.
```

Sql*Plus 명령어 (2/4)

- ❖ SQL>get 파일명.sql
 - ◆ 파일의 내용을 보여줌
- ❖ SQL>@파일명.sql
 - ◆ 파일의 내용을 실행
 - ◆ SQL>start 파일명.sql과 동일

```
203.252.164.200 (9) - SecureCRT
File Edit View Options Transfer Script Tools Window Help
SQL> get prepare.sql
1  //////////////////////////////////////////////////
2  drop table employee;
3  drop table works;
4  drop table company;
5  drop table manages;
6  drop view salinfo;
7  create table employee(employee_name varchar2(15),
8  employee_id number(4), city varchar2(10));
9  create table works(employee_name varchar2(15),
10 works_id number(4), salary number(9));
11 create table company(company_name varchar2(15),
12 company_id number(4));
13 create table manages(employee_name varchar2(15),
14 manager_name varchar2(15));
Ready ssh2: AES-128 16, 6 16 Rows, 6
```

```
203.252.164.200 (9) - SecureCRT
File Edit View Options Transfer Script Tools Window Help
SQL> @prepare.sql
////////////////////////////////////
*
ERROR at line 1:
ORA-00900: invalid SQL statement

Table dropped.

Table dropped.

Table dropped.

Table dropped.

drop view salinfo
Ready ssh2: AES-128 21, 6 21 Rows, 41 Cols VT100
```

Sql*Plus 명령어 (3/4)

- ❖ SQL>list
 - ◆ 마지막 요청된 SQL문을 보여줌
- ❖ SQL>run
 - ◆ 버퍼에 저장된 SQL문을 실행
- ❖ SQL>clear buffer
 - ◆ 버퍼에 저장된 SQL문을 삭제

```
203.252.164.200 (9) - SecureCRT
File Edit View Options Transfer Script Tools Window Help
SQL> select * from works;
EMPLOYEE_NAME  COMPANY_NAME  SALARY
-----
CLARK           First Bank   10000
JONES           First Bank   9900
JAMES           Small Bank   9500
SCOTT           Small Bank   9200
KING            Small Bank   18000
ADAMS           First Bank   17000
FORD            First Bank   9500
SCALET          Woori Bank   125000
Ray             Woori Bank   22000
Erold           Et Bank      11000

10 rows selected.

SQL> list
1* select * from works
SQL> run
1* select * from works

EMPLOYEE_NAME  COMPANY_NAME  SALARY
-----
CLARK           First Bank   10000
JONES           First Bank   9900
JAMES           Small Bank   9500
SCOTT           Small Bank   9200
KING            Small Bank   18000
ADAMS           First Bank   17000
FORD            First Bank   9500
SCALET          Woori Bank   125000
Ray             Woori Bank   22000
Erold           Et Bank      11000

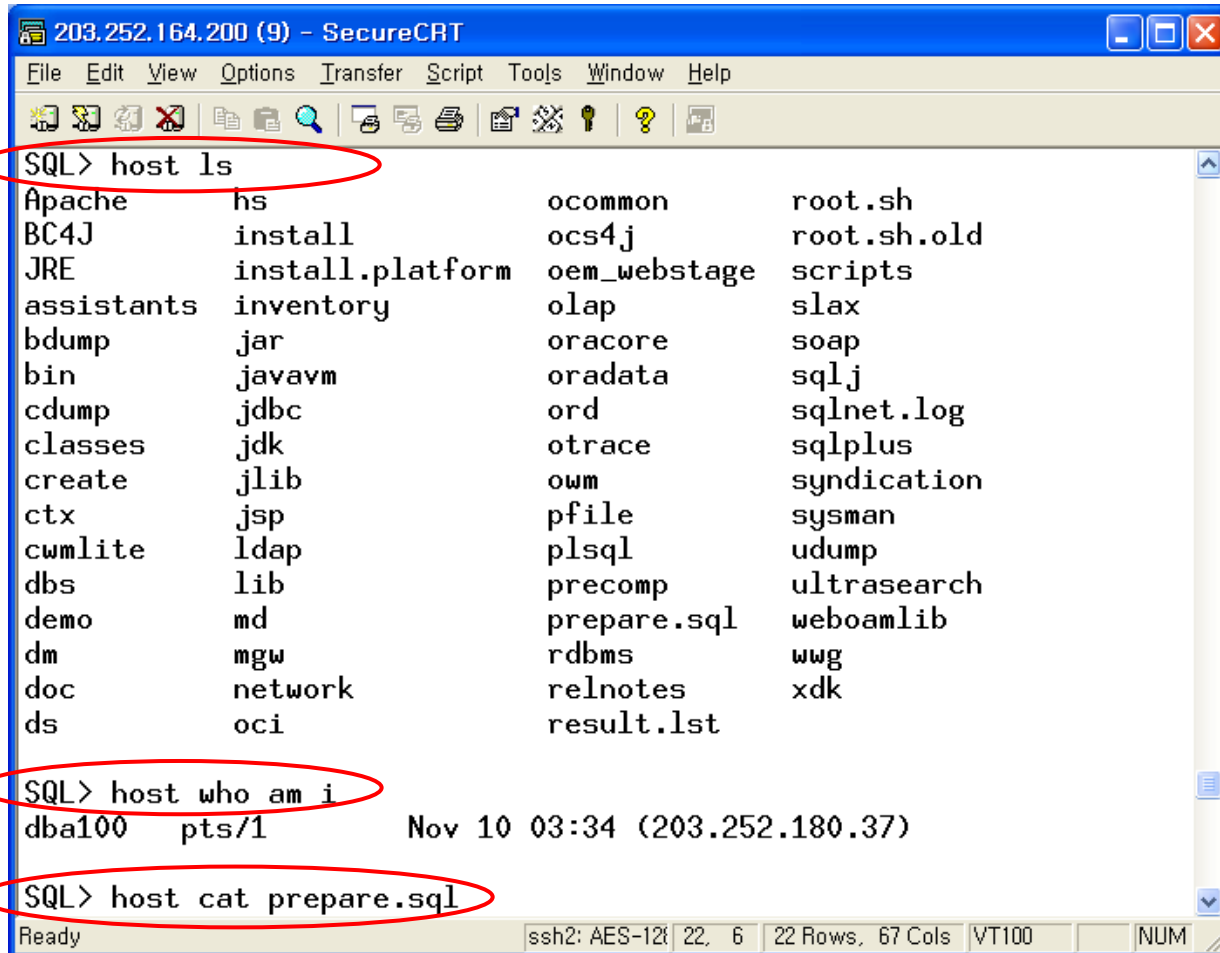
10 rows selected.

SQL>
Ready  ssh2: AES-128 38, 6 38 Rows, 58 Cols VT100 NUM
```


Sql*Plus 명령어 (4/4)

❖ SQL>host 호스트명령어

- ◆ SQL*Plus를 중단하지 않고 호스트 운영체제의 명령어를 실행



The screenshot shows a SecureCRT terminal window titled "203.252.164.200 (9) - SecureCRT". The terminal displays the following commands and outputs:

```
SQL> host ls
Apache      hs          ocommon    root.sh
BC4J        install    ocs4j      root.sh.old
JRE         install.platform oem_webstage scripts
assistants inventory  olap       slax
bdump       jar        oracore    soap
bin         javavm    oradata    sqlj
cdump       jdbc      ord        sqlnet.log
classes     jdk       otrace     sqlplus
create      jlib      owm        syndication
ctx         jsp       pfile     sysman
cumlite     ldap      plsql     udump
dbs         lib       precomp   ultrasearch
demo        md        prepare.sql weboamlib
dm          mgw       rdbms     wwg
doc         network   relnotes  xdk
ds          oci       result.lst

SQL> host who am i
dba100 pts/1      Nov 10 03:34 (203.252.180.37)

SQL> host cat prepare.sql
```

The status bar at the bottom of the terminal shows "Ready", "ssh2: AES-128", "22, 6", "22 Rows, 67 Cols", "VT100", and "NUM".

참고 사이트



- ❖ SecureCRT (쉐어웨어) 다운로드
 - ◆ <http://search.naver.com/search.naver?where=nexearch&query=secureCRT&hw=1>
- ❖ ORACLE Oracle9i Database Online Documentation (Release 2 (9.2))
 - ◆ <http://www.oracle.com/pls/db92/db92.homepage>
- ❖ Oracle Technology Network
 - ◆ <http://otn.oracle.com>

