

Oracle 9i

ORDBMS
RDBMS



Oracle9i:Object Relational Database Management System

-
-
- SQL(Structured Query Language)
가
-
-
- SQL PL/SQL

Relational Database Terminology

				ID
020036			2	23
991199			1	23
000011				
123456			2	45

ID	
23	
45	

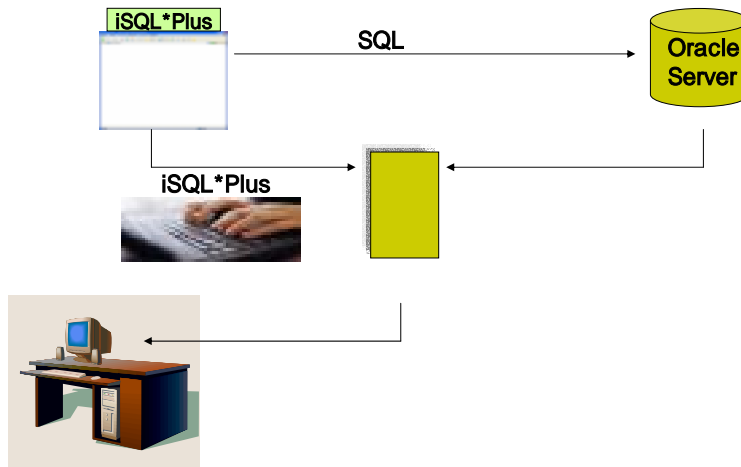
1. - 가
2. - , 가
3. - 가
4. - ,
5. Null 가
- 6.

Oracle 9i

iSQL*Plus
 SQL*Plus



SQL iSQL*Plus



SQL iSQL*Plus

- | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> • SQL <ul style="list-style-type: none"> • ANSI • • | <ul style="list-style-type: none"> • iSQL*Plus <ul style="list-style-type: none"> • Oracle • • |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

가

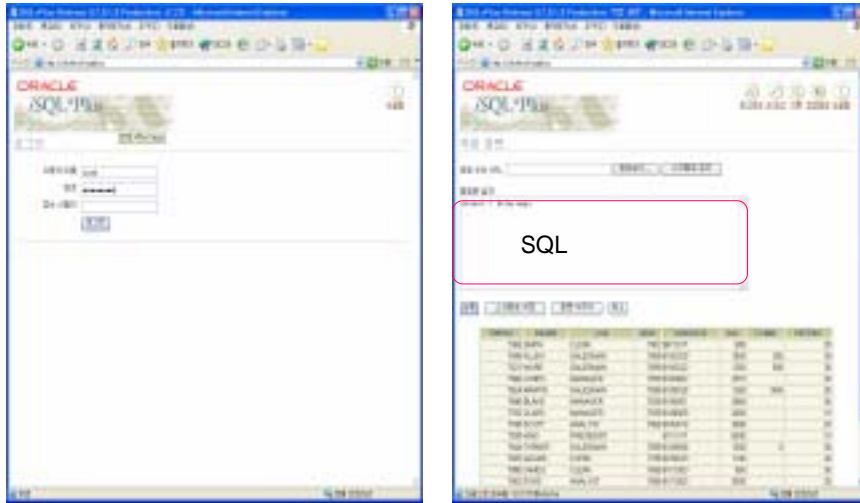
iSQL*Plus

-
- SQL
- SQL*Plus SQL
- SQL SQL
- 가
-
- iSQL*Plus

iSQL*Plus

- - [] - [] - [Oracle - OraHome90] - [Oracle HTTP Server] - [Apache HTTP Server]
 - [] [Oracle HTTP Server]
 - MSDOS
 - Apache \ Apache \ Apache
- - http://host .domain/isqlplus

iSQL*Plus



SQL*Plus

-
-
- [] [] Oracle On Home90
[Application Development] [SQL*Plus]
- MSDOS
- Sqlplus

	EDIT { }	
	SAVE { }	
	START { } = @	SQL
	GET { }	
	SPOOL	
	SPOOL OFF	
	HOST	(shell)
	EXIT	(O/S prompt)
	CONNECT { / }	
	A { }	가
	C	
	L	List
	I	가
	DEL n	
	N()	
	CLEAR BUFFER	

	START { }	SQL
	@ { }	SQL
	RUN { } = /	
	SET ECHO {off on}	SQL
	SET FEED[BACK] {n off on}	
	SET HEAD[ING]	
	SET LINE[SIZE] {80 n}	
	SET PAGE[SIZE] {24 n}	
	SET PAU[SE] {on off}	()
	SET SQLPREFIX {# c}	SQL SQL*Plus
	SET NULL {text}	Null text
	SET SPACE {1 n}	
	SET UNDERLINE { on off}	underline
	SET WRAP {on off}	linesize
	COLUMN	format
	TTITLE	
	BTITLE	
	BBREAK	

iSQL*Plus

(Substitution variable)
Script



(Substitution variable)

- iSQL*Plus Substitution variable
 - - & :
 - && :
 - DEFINE <> UNDEFINE
 - SQL

- WHERE
- ORDER BY
-
-
- SELECT

&

- SELECT employee_id, last_name
FROM employee
WHERE employee_id = &employee_num;

ORACLE
SQL*Plus

대체 변수

SQL*Plus의 실행할 대체 변수 값 입력

변수 값
employee_num 7560

확인 취소

구 3 WHERE employee_id = &employee_num
실행 3 WHERE employee_id = 7560

EMPLOYEE_ID	LAST_NAME
7560	DUNCAN

&

- SELECT employee_id, last_name
FROM employee
WHERE last_name = &lname;

구 3: WHERE last_name = &lname
신 3: WHERE last_name = SMITH

WHERE last_name = SMITH

3행에 오류:
ORA-00904: 컬럼이 부적합함...이다

&

- SELECT employee_id, last_name
FROM employee
WHERE last_name = '&lname';

구 3: WHERE last_name = &lname
신 3: WHERE last_name = 'SMITH'

EMPLOYEE_ID	LAST_NAME
7369	SMITH

- SELECT employee_id, last_name, &column_name
FROM &table_name
WHERE &condition
ORDER BY &order_column;

오류 메시지 > 실행 변수

실행 변수

스크립트의 실행할 대의 변수 값 입력:

변수 값

column_name job_id

table_name employee

condition last_name = 'SMITH'

order_column last_name

실행 취소

```

구 1: SELECT employee_id, last_name, &column_name
선 1: SELECT employee_id, last_name, job_id
구 2: FROM &table_name
선 2: FROM employee
구 3: WHERE &condition
선 3: WHERE last_name = 'SMITH'
구 4: ORDER BY &order_column
선 4: ORDER BY last_name
    
```

EMPLOYEE_ID	LAST_NAME	JOB_ID
1769	SMITH	667

DEFINE variable = value

-

DEFINE variable = value	.
DEFINE variable	., ., .
DEFINE	., ., .

- DEFINE e_id = 7560
- DEFINE l_name = SMITH
- DEFINE l_name
- UNDEFINE l_name
- DEFINE l_name
- DEFINE l_name = SMITH
- DEFINE
- DEFINE l_name = "SMITH" (CHAR)
- SP2-0135: l_name UNDEFINED
- DEFINE _CONNECT_IDENTIFIER = "kdoOra" (CHAR)
- DEFINE _SQLPLUS_RELEASE = "902000100" (CHAR)
- DEFINE _EDITOR = "Notepad" (CHAR)
- DEFINE _O_VERSION = "Oracle9i Enterprise Edition Release 9.2.0.1.0 - Production With the Partitioning, OLAP and Oracle Data Mining options JServer Release 9.2.0.1.0 - Production" (CHAR)
- DEFINE _O_RELEASE = "902000100" (CHAR)
- DEFINE E_ID = "7560" (CHAR)
- DEFINE L_NAME = "SMITH" (CHAR)

- DEFINE e_id = 7560
- DEFINE l_name = SMITH
- SELECT *
FROM employee
WHERE employee_id = &e_id
OR last_name = '&l_name';

구 2: where employee_id = &e_id
 실행 2: where employee_id = 7560
 구 3: OR last_name = '&l_name'
 실행 3: OR last_name = 'SMITH'

EMPLOYEE_ID	LAST_NAME	FIRST_NAME	HI	JOB_ID	MANAGER_ID	HIRE_DATE	SALARY	COMMISSION	DEPARTMENT_ID
7369	SMITH	JOHN	D	667	7902	84/12/17	800		20
7560	DUNCAN	SARAH	S	670	7506	85/05/31	1250		23

&&

- SELECT employee_id, last_name, &&column_name
FROM employee
ORDER BY &column_name;

구 1: SELECT employee_id, last_name, &&column_name
신 1: SELECT employee_id, last_name, job_id
구 2: ORDER BY &&column_name
신 3: ORDER BY job_id

스크립트에 실행할 대용 변수 값 입력:

변수 값

column_name job_id

EMPLOYEE_ID	LAST_NAME	JOB_ID
7838	SMITH	SA
7876	ADAMS	CLERK
7839	SCOTT	ANALYST
7840	JAMES	CLERK
7844	MILLER	CLERK
7845	MURRAY	CLERK
7846	WATSON	CLERK

구 1: SELECT employee_id, last_name, &&column_name
신 1: SELECT employee_id, last_name, job_id
구 2: ORDER BY &&column_name
신 3: ORDER BY job_id

EMPLOYEE_ID	LAST_NAME	JOB_ID
7838	SMITH	SA
7876	ADAMS	CLERK
7839	SCOTT	ANALYST
7840	JAMES	CLERK
7844	MILLER	CLERK
7845	MURRAY	CLERK
7846	WATSON	CLERK

Script

작업 화면

파일 또는 URL:

명령문 입력:

```
SET VERIFY OFF

DESC employee;
select * from employee;

SELECT employee_id, last_name
FROM employee
WHERE employee_id = sc_name;

SET VERIFY ON
```

iSQL*PLUS

- SET
- SHOW

SET system_variable value
 SHOW system_variable

SET

ARRAY[SIZE] { <u>20</u> n}	(fetch)
ECHO {OFF ON}	SQL
FEED[BACK] { <u>6</u> n OFF ON}	
HEA[DING] {OFF <u>ON</u> }	
LONG { <u>80</u> n}	
COL[UMN] {column option}	format
TTI[TLE] {text OFF ON}	
BTI[TLE] {text OFF ON}	
BRE[AK] {ON report_element}	

VERIFY

- SET VERIFY OFF
- SELECT employee_id,
last_name
FROM employee
WHERE employee_id
= &c_name;
- SET VERIFY ON
- SELECT employee_id,
last_name
FROM employee
WHERE employee_id
= &c_name;

```
SQL> SET VERIFY OFF
SQL> SELECT employee_id = &c_name
```

EMPLOYEE_ID	LAST_NAME
7582	DUNCAN

EMPLOYEE_ID	LAST_NAME
7582	DUNCAN