
























TOAD[®]

Version 7.4



**QUEST
SOFTWARE**

	SQL Edit	
	Schema Browser	
	Procedure Edit	
	SQL Modeler	
	Explain Plan	
	DBMS Output	
	Object Search	
	Save all Options	TOAD ,
	TOAD Reports	
	Offline Text Editor	(Oracle)
	Toggle PL/SQL Profiling On/Off	
	Toggle Compiling with Debug	
	Configure TOAD Options	
	Integrated Tools	
	Run Script	
	Configure/Execute External Tools	
	Project Manager	
	Commit any changes to this schema	
	Rollback any changes to this schema	
	Show windows by connection	MDI (child window) Oracle MDI .
	Open a new Oracle connection to the database	

(Project Manager)



- 1 DB .
- 2 가
- 3 Add > Project Add Item Project
- 4 가 Add a Folder
- 5 Add > Folder Add Item Folder .
- 6 (Copy) FTP ,
- 7 , FTP
- 8 .
- 9 .
- 10 .
- 11 .
- 12 .
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- 96 .
- 97 .
- 98 .
- 99 .
- 100 .

SQL (SQL Editor)

- 1 SQL Editor , . TOAD
- 2 SQL Edit . SQL Edit
- 3 .
- 4 .
- 5 Data, Explain Plan, Auto Trace, DBMS
- 6 Output Script Output . 가

PL/Formatter

Code Statistics

(horizontal splitter)

SQL Editor Toolbar



Previous SQL

Personal SQL

SQL

SQL

(!) SQL

SQL

SQL

가

가

Oracle SQL

strip

Explain Plan

SQL

SQLab Xpert

가

F1

F1

<ALT><UP> <ALT><DOWN> SQL

가

F4

(, , , ,).

Procedure Editor

SQL Editor

, , ,

F4

Object Describe

Object Describe

Schema Browser

F6

SQL Editor

F10

가

()

<CTRL>T

?

<ALT><UP>

가

<ALT><DOWN>

가

<HOME>

<CTRL><HOME>

가

<END>

<CTRL><END>

가

: <CTRL><END>

TOAD

가

가

(refine)

Select * from table Where primary_key > value

(KEYSTROKE)	
F1	TOAD SQL Editor
F2	Editor Editor/Results Panel
<SHIFT>F2	
F3	
<SHIFT>F3	
F4	, , , ,
F5	
F6	Editor Results Panel
F7	
F8	SQL) (SQL Statement Recall
F9	
<CTRL>F9	()
<SHIFT>F9	
F10	
F12	
<CTRL>A	
<CTRL>C	
<CTRL>D	Procedure Arguments

<CTRL>E	Execute Explain Plan .
<CTRL>F	.(Find Text)
<CTRL>G	.(Goto Line)
<CTRL>L	.
<CTRL>M	(Code Statement) .
<CTRL>N	Named SQL Statement .(SQL Statement Recall)
<CTRL>O	.
<CTRL>P	.
<CTRL>R	(Find and Replace Text)
<CTRL>S	
<SHIFT><CTRL>S	
<CTRL>T	.
<CTRL>U	.
<CTRL>V	
<CTRL>X	
<SHIFT><CTRL>Z	.
<ALT><UP>	.
<ALT><DOWN>	(<ALT><UP>)
<CTRL><HOME>	가 , ' .
<CTRL><END>	' . 40
<CTRL><SPACE>	.
<CTRL><TAB>	MDI Child .
<CTRL><ENTER>	SQL .
<CTRL>.()	.

SQL Editor

Select dept.rowid, dept.* from dept

<CTRL><ENTER> F9

View > Options > Data Grids- Data Show ROWID
ROWID가

, TOAD EDIT ROWID SELECT SQL

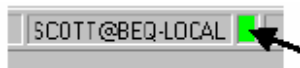
Edit dept

<CTRL><ENTER> F9

가

가

가



: = 가 = 가

(Single Record View)

Single Record View TOAD

	DEPTNO	DNAME	LOC
	10	ACCOUNTING	NEW YORK
	20	RESEARCH	DALLAS
▶	30	SALES	CHICAGO
	40	OPERATIONS	BOSTON

Single Record View

Single Record View

가



Explain Plan

TOADPREP.SQL

- 1 SYS SYSTEM DBA
- 2 File > Open File
- 3 TOAD > TEMPS
- 4 TOADPREP.SQL
- 5 TOADPREP.SQL SQL Editor
- 6 Script Execute

Explain Plan

- 1 SQL Script SQL Editor
- 2 Select, Insert, Update, Delete SQL
- 3 SQL -Window > Explain Plan Current SQL
- 4 Explain Plan

View Explain Plan

- 1 View > Explain Plan
 - 2 Explain Plan
 - 3 Explain Plans
- TOAD TOAD SQLS.DAT

<ALT> <UP> <ALT> <DOWN> SQL Editor

SQL Edit

F9 Execute Statement

caret/cursor
<SHIFT> F9 <CTRL><ENTER>
Run Current Statement

SQL Scripts

SQL Edit DDL Insert SQL
가 SQL *Plus TOAD가 SQL
가 SQL *Plus
SQL-Window > Execute SQL Window via SQL*Plus

/

가

ALIASES.TXT TOAD \ TEMPS

table_name=alias

such as:

AAX_ACCESSGROUP_APPLICATION=aax

ACA_ACTIVITY_ACTION=aca

(Tablename Completion)

dep <CTRL>. , dep

TOAD \ TEMPS

▪ (Bookmarks)

SQL Editor

10

<CTRL><SHIFT># # 0 9
가

<CTRL># # 0 9

▪ (Code Completion Templates)

Auto Replace Substitution

(<CTRL><SPACE>)

[Language]가 HTML, INI, JAVA, PLSQL, TEXT가
TOAD \ TEMPS DCI

Editor Options

Editor Options (SQL Edit Procedure Edit)

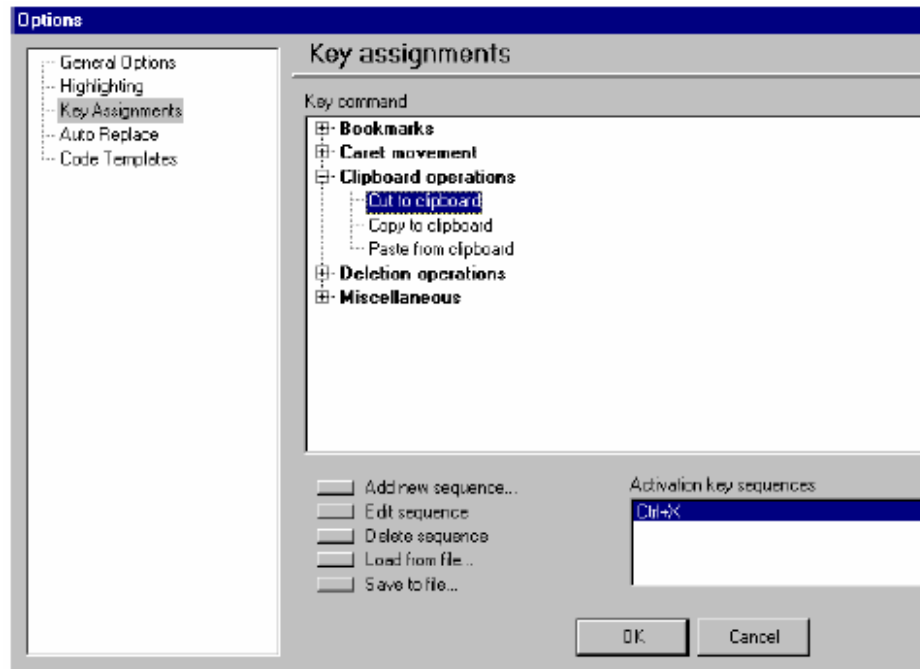
Edit > Editor Options

, 가

Editor Options

General Options, Highlighting, Key

Key Assignments



Key Assignments

Key Assignments

Key

Bookmarks

Caret movement

Clipboard operations

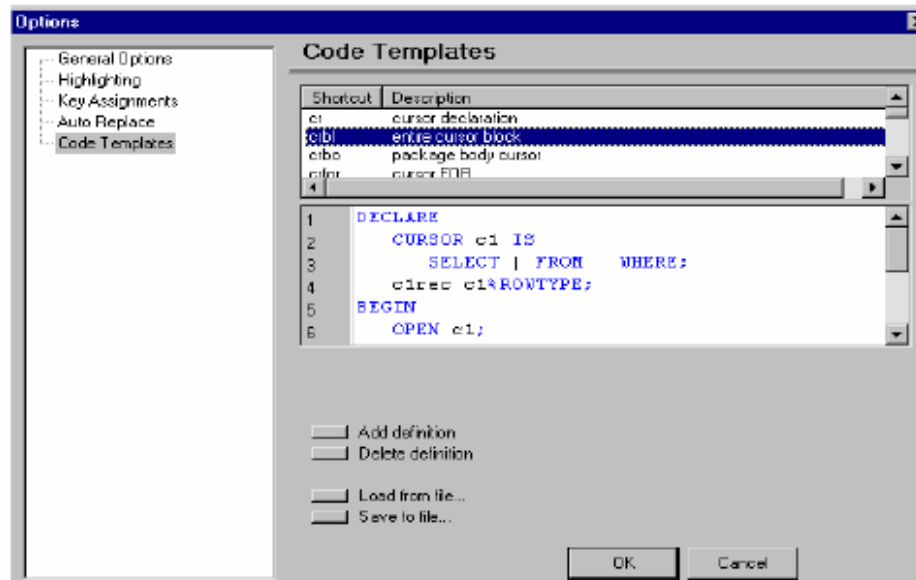
Deletion operations

Miscellaneous

가 Activation

(Code Templates)

Code Templates



가 / (Shortcut/Description)

가(Add definition)

(Delete definition)

SQL Editor

F10

(Optimizer Mode)

Choose,

Default, Rule, First Rows, All Rows가

SQL (Results Panel)

SQL Results Panel Data, Explain Plan, Auto Trace, DBMS, Output,
Script Output . PL/Formatter
Code Statistics .

(Data tab)

가 (Editable Data Grid)

가 SQL , 가
가 . 가
ROWID . , 가 가 .

select * from employee

, 가 가 .

select employee.*, rowid from employee

, TOAD가 가

EDIT .

:

edit employee

, 가 View > Options > Data
Grid ? Data > Default to Read-Only

.

가 (), 가 ()
가 .

View > Options > Data Grids 가 Popup memo editor on
double-click .

,

Explain Plan tab

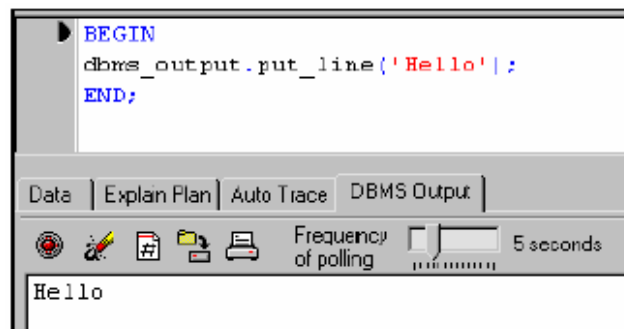
View > Explain Plan Explain Plans
TOADPREP.SQL .






Auto Trace tab

Auto Trace

DBMS Output

가 DBMS Output , DBMS Output
DBMS Output가



-  Turn Output On/Off, DBMS Output , DBMS Output OFF , DBMS Output ON
-  Clear window
-  Set Output Buffer Size, 가 Set DBMS Output
-  Save to File
-  Print Output window

Frequency of polling

. (2 15).

Open a new DBMS Output , DBMS Output



Open a new DBMS Output window

DBMS Output

Procedure Editor

Script Output

가

> Print

Script

Output

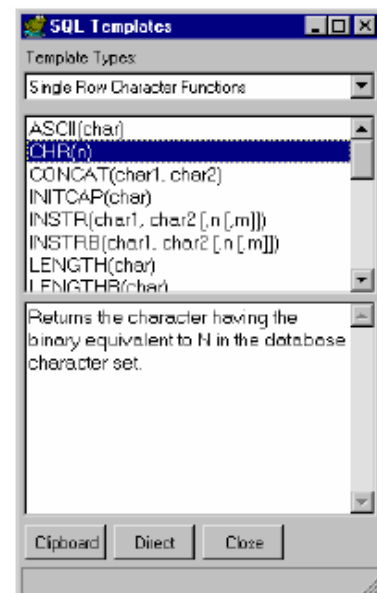
SQL (SQL Templates)

SQL Templates() Oracle SQL

TOAD

, TEMPS

STRFUNCS.TXT	Single Row Character Functions
NUMFUNCS.TXT	Single Row Number Functions
GRPFUNCS.TXT	Group Functions
DATFUNCS.TXT	Date Functions
DATEFMTS.TXT	Date Format Options
CNVFUNCS.TXT	Data Conversion Functions
MSCFUNCS.TXT	Other Misc. Functions
NMBRFMTS.TXT	Number Format Options
PSEUDO.TXT	Oracle Pseudo Columns
OPTHINTS.TXT	SQL Optimizer Hints
PREFXCP.TXT	Defined Exceptions



SQL Templates

SQL

USRFUNCS.TXT	User Provided Function List
--------------	-----------------------------

가
 PREDFXCP.TXT
 USRFUNCS.TXT

Make Code Statement Strip Code Statement

SQL Edit TOAD SQL Delphi, VB, C++ , Java, Perl
 , TOAD
 가 Make Code Statement
 <CTRL>M Strip Code Statement <CTRL>P

View > Options > SQL Editor > Make Code Format

Delphi, VB, C++ , Java, Perl , VB

SQL Editor . TOAD Options >
 Editors > External Editor Command Line
 c: \winnt \notepad.exe , 가
 . While in the SQL Editor Procedure Editor
 <CTRL><F12> , TOAD
 Editor

- View > Options > Procedure Editor > Reload files when activating TOAD if the file time stamp is changed

SQL Editor

가 SQL Editor

SYS. SYSTEM

가

1 () <CTRL>T

()

2



3

. 17

<CTRL>



4 <ENTER>

<TAB>

5

SQL Editor

가

가

```
select table_privileges.TABLE_NAME,  
TABLE_PRIVILEGES.SELECT_PRIV,  
TABLE_PRIVILEGES.INSERT_PRIV
```

SQL Editor

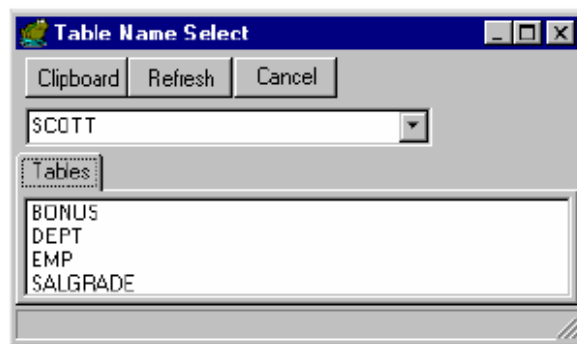
Table Name Select

SQL Editor



Show Tables

Table Name Select



1 SQL Edit Procedure Edit Show Tables

2 Table Name Select

3 가

<CTRL>

4 , <CTRL>C <CTRL>V

Table Column SQL Editor



SQL Editor Procedure Editor Show Columns
Column Name Select

1 SQL Edit Procedure Edit Show Columns

2 Column Name Select

3 . 가

<CTRL>

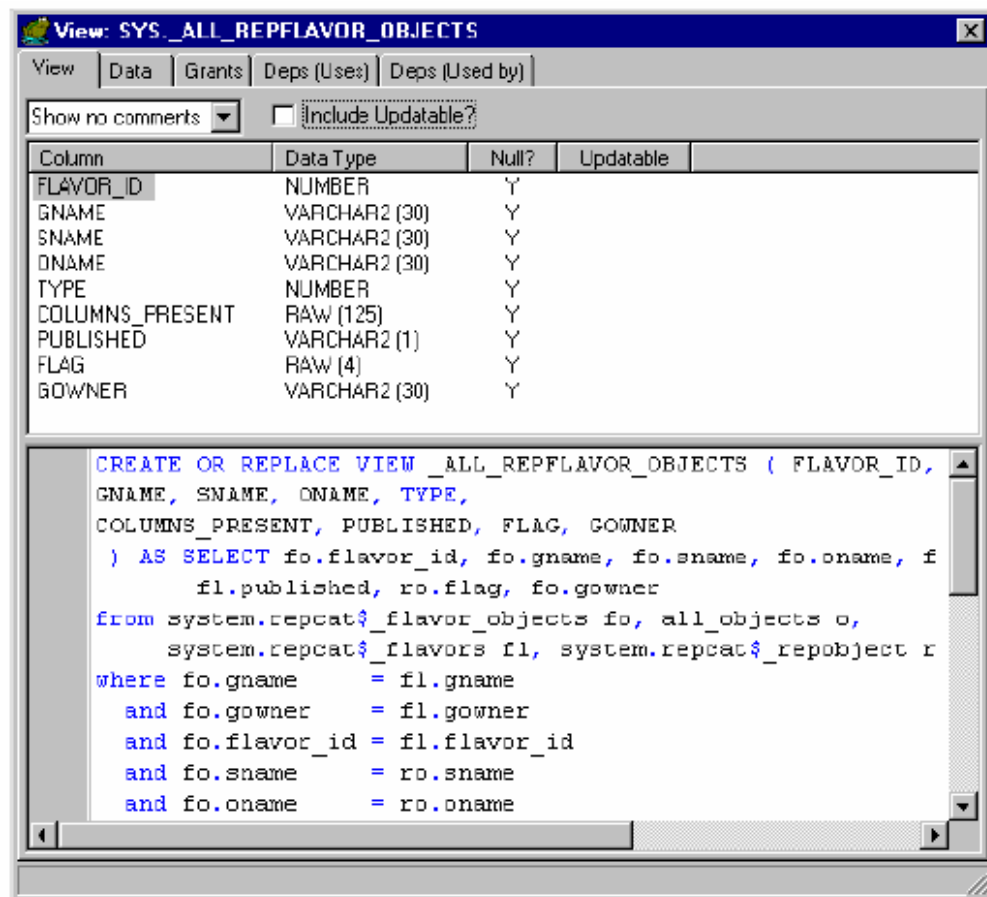
4 , <CTRL>C

<CTRL>V

SQL Editor

1 F4

2



File > Reopen File

File > Reopen File
Editor

SQL Editor Procedure
10

TOAD\ TEMPS SQLFILES.TXT

SQL



Recall Previous SQL

- 1 SQL -Window > SQL Command Recall .
F8 Recall Previous SQL .
- 2 SQL Statement Recall . 가
1007+ SQL Edit .

가 Personal SQL



Recall Personal SQL

- 1 .
- 2 SQL -Window > Recall Personal SQL .
SQL Editor Recall Personal SQL .
SQL PERSSQLS.DAT , .

Named SQL

- 1 SQL -Window > Add to Named SQLs .
- 2 SQL -Window > Recall Named SQL .

<CTRL>N .

SQL NAMEDSQL.DAT

(Data Grids)

(Memo Editor)

View > Options > Data Grids > Popup Memo Editor on Double-Click
Memo Edit

Report Link Designer

Save Grid Contents

(Delimiters)

ASCII

<TAB>

1

2

3

1

Select Columns

2

■

TOAD

WHERE ORDER BY 가

View > Options > Data Grids -

Visual > Size data to the width of column headers, Size grid columns to the width of the data Allow columns to be less than the header width

1 Grid menu Find Data

Grid Data Find

2

3 ADD

4 OK

Duplicate Row

1

2

3 Grid > Copy Row .(

)

4 SQL

: Copy Row 가

5 <ESC>

Record Count

SQL Editor
SQL Modeler

Schema Browser, Master/Detail Browser,

Set Sequence Field

Fix Current Column

Preview Current Column

Remove Preview Column

Allow Multi-Select

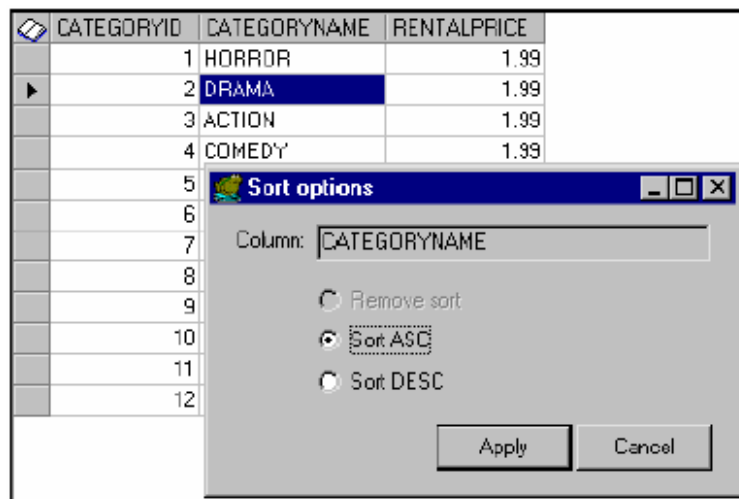
Grid Options

Size Columns

About Row Height

Sort Options

Sort Options



Schema Browser SQL Editor

. Schema Browser

Sort Options

View > Options > Data Grids ? Visual > Confirm sorts when clicking on column header

(Calculator)

Data	Explain Plan	Auto Trace	DBMS Output	Script Output
RENTALID	DUE DATE	TOTALCHARGE	CUSTOMERID	EMPLOYEEID
1	10/09/2099	5.98	40	4
2	10/09/2099	2.98	1	2
3	10/09/2099			1
4	10/09/2099			1
5	10/09/2099			3
6	10/09/2099			5
7	10/09/2099			1
8	10/09/2099			2
9	10/09/2099			5

Back

CE

C

MC

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sqrt

MR

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6

*

%

MS

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2

3

-

1/x

M+

0

+/-

.

+

-

Report Link Designer

가 (Grid > Print Grid
Print), Report Link Designer가 .

Options

Draw Mode

Bands

Headers

Preview

Autocalculate Preview Lines

Preview Line Count

Grid

Nodes Grid

Colors

Fixed Transparent

Grid Line Color

Fonts

Behaviors

Miscellaneous

(Procedure Editor)

Procedure Editor

, , , , ,
PL/SQL
F10 Set Bookmark

Uncomment Block

Procedure Editor

- TOAD



- Database > Procedure Editor

- Schema Browser > Procedure Editor Procedure Editor

- View > Options > Startup Procedure
Editor to StartUp

(Toolbar Buttons)

Procedure Editor



3가	Options	Procedure Editor	Enable
Compiling Multiple Objects From a Single File			



SQL

Procedure Editor



가



가



가

가



.(

)



SQLLab Xpert

SQLLab Xpert/SQL Impact where used/SQL Impact Quality

Audit가



가

가

가 (Shortcut Keys)

가	
F1	Window
F2	/
F3	
F4	, , , ,
F7	
F9	
F10	
F12	SQL Procedure Editor
<CTRL>A	
<CTRL>C	
<CTRL>D	가
<CTRL>F	
<CTRL>G	
<CTRL>L	
<CTRL>O	
<CTRL>R	
<CTRL>S	
<SHIFT><CTRL> S	
<CTRL>T	

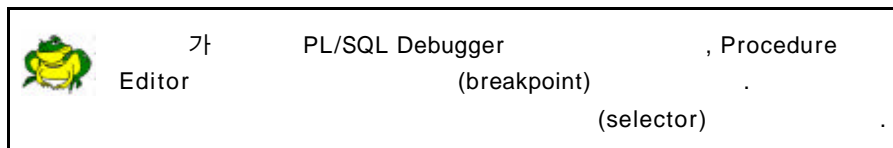
<CTRL>U	
<CTRL>V	
<CTRL>X	
<CTRL>Z	
<SHIFT><CTRL>Z	
<CTRL><HOME>	1 , 1
<CTRL><END>	
<CTRL><SPACE>	(+<CTRL> <SPACE>) 가
<CTRL><TAB>	MDI Child
<CTRL><ENTER>	
<CTRL>. ()	

Procedure Edit SQL Edit .

Procedure Editor 가

- .
- .
- Procedure Editor .
- .
- File Explorer .
- Schema Browser Procedure Editor
Load (Procedure Editor Window
).

F9 .



File > Open

- 1 Proc Edit File > Open File .
- 2 Load File .
- 3 .
- 4 Procedure Editor .
- 1 Load Source .
- 2 Select Database Object .
- 3 .
- 4 .
- 5 , Procedure Editor .
- 6 SQL 가 Select Database Object SQL .
- 7 OK .

New Procedure

- 1 Create New Procedure .
 - 2 New Procedure Create Options .
 - 3 .
 - 4 Object Name .
 - 5 OK .
- NEWFUNC.SQL, NEWPACK.SQL,

NEWPROC.SQL, NEWTRIG.SQL가
View > Options > Proc Templates

TOAD . TOAD가

: %YourObjectName% or *YourObjectName*
Sysdate: %SYSDATE%
/ : %DATETIME%
: %DATE%
: %TIME%
: %USERNAME% (set in TOAD Options, Procedure
Editor)
: %TriggerOpts%

/* Object Name: %YourObjectName% */
/* Date: %DATE% */

/* Object Name: My_Proc_Name */
/* Date: 2/15/2002 */

Procedure Edit

Package Navigator List
(SPEC) / Body
f() p()
Procedure Editor

POSITIONS.PKS	Profile.pks	Stepinto.prc	GIVE_RAISE.PRC
---------------	-------------	--------------	----------------

```

1 CREATE OR REPLACE PROCEDURE STEPINTO IS
2 tmpVar NUMBER;
3 localVar NUMBER;
4 BEGIN
5     tmpVar := 0;
6     localVar := 4;
7     EXCEPTION
8         WHEN NO_DATA_FOUND THEN
9             NULL;
10        WHEN OTHERS THEN
11            NULL;
12 END STEPINTO;
13 /

```

Procedure Editor

Error , .
가
Oracle Instant
Messages .
가
가
가

View > Options > Procedure Editor tab > Enable Compiling Multiple Objects
From a Single File , Procedure Edit

Spec (S) , Body (B) .



Run button

Run .

Load Object from Database .

(Navigator List Buttons)



Refresh Navigator



Sort/Do not sort navigator list alphabetically



Close navigator list

(Right-click menu)

Procedure Editor , F10

.

Describe

Close File/Tab

New File/Tab

Comment Block

Format Statement

Find Closing Block

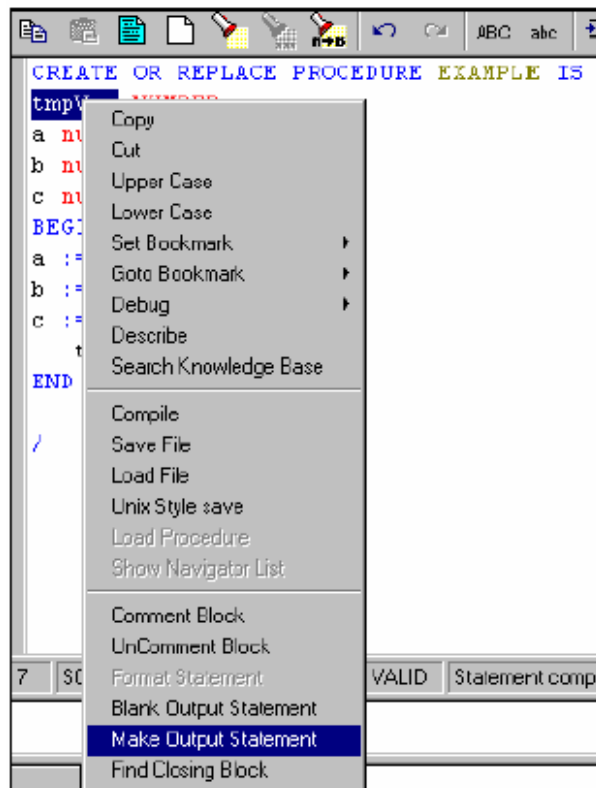
Procedure Editor Desktop

Read Only

DBMS Output

View > DBMS Output 가 .

DBMS_OUTPUT



tmpVar가

Make Output Statement

```

CREATE OR REPLACE PROCEDURE EXAMPLE IS
tmpVar NUMBER;
a number;
b number;
c number;
BEGIN
a :=1;
b :=2;
c :=3;
tmpVar := a+b+c;
DEMS_OUTPUT.PUT_LINE ('tmpVar= ' || tmpVar );
END EXAMPLE;
/

```

50 SCOTT@BEQ-LOCAL Modified VALID statement copied to the clipboard

DBMS_OUTPUT tmpvar SQL

Blank Output

Blank Output DBMS_OUTPUT

DEMS_OUTPUT.PUT_LINE (' ');

DBMS_OUTPUT

1 , Blank Output Statement

2

3 Edit Paste

DBMS_OUTPUT Statement

utPLSQL

TOAD Steven Feuerstein utPLSQL
PL/SQL
. UtPLSQL
<http://oracle.oreilly.com/utplsql>
<https://sourceforge.net/projects/utplsql/>
utPLSQL



Quest Software, Inc
UtPLSQL

가 utPLSQL

Chris Rimmer

1 C: \utplsql \ runtest(
가)

2 Configur/Execute Configure
. Tools Option

3 Add . Tool Properties

4 Title “ Unit Test in utPLSQL ”

5 Program SQL*Plus

6
\$UID/\$UPW@\$SID @c: \utplsql \ runtest \$FIL
(runtest) 가

7 가 가

8 OK

*
:
C: \Program Files \Quest \ ...

\$FIL

```
$UID/$UPW@$SID @'C: \Program Files \Quest  
Software \ utPLSQL \ runtest.sql'  
'$FIL'
```

```
        (mypack.pkb          )  
(ut_mypack.pks          )      , utplsql.test('mypack')가
```

TOAD

```
--RUNTEST.SQL Version 1.0.2  
-- This file takes the given filename, strips off its directory and  
-- extension and calls utplsql.test with the result.  
--Chris Rimmer 15 Feb 2002  
SET serveroutput ON  
SET verify OFF  
DECLARE  
    filename VARCHAR2(100) := '&1';  
    dot PLS_INTEGER;  
    slash PLS_INTEGER;  
    prefix_len PLS_INTEGER := LENGTH(utconfig.prefix);  
BEGIN  
    --Strip off the directory  
    slash := INSTR(filename, '\', -1, 1);  
    IF slash <> 0 THEN  
        filename := SUBSTR(filename, slash + 1);  
    END IF;  
    --Strip off the extension  
    dot := INSTR(filename, '.', 1, 1);  
    IF dot <> 0 THEN  
        filename := SUBSTR(filename, 1, dot - 1);  
    END IF;  
    --Strip off ut prefix  
    IF SUBSTR(filename, 1, prefix_len) = utconfig.prefix THEN  
        filename := SUBSTR(filename, prefix_len + 1);  
    END IF;  
    --Now run the test  
    utplsql.test(filename);  
END;  
/  
pause Press ANY KEY TO CLOSE  
EXIT
```

(Source Code Management)

TOAD Source Code Control (SCC), Microsoft API

. SCC API ,

, 가

.

SCC API

TOAD

:

- Microsoft Visual SourceSafe 6.0
- PVCS 6.7 (VM 가)
- StarBase StarTeam 4.2 (Developer Studio Integration)
- QVCS 3.5 (Quma) (QVCS Source Control Provider QVCS 가)
- CS-RCS 2.5.140 ()

:

TOAD

가

API

,

TOAD

.

SCC

SCC

SCC

DLL

.

: Source Control

.

Source Control

.

(Working Folder)

TOAD

가

.

, 가 Microsoft Visual SourceSafe

Microsoft Visual SourceSafe

,

.

Set Working Folder

.

Source Control

View > Options > Source Control
SCC

Source Control

Source Control

1 TOAD Source Control Provider

. Source Control Provider

SCC 가

TOAD

2 Prompt for Comment

Source Control Procedure Editor

. Procedure Editor



Check file out of source control



Check file into source control

Source Control

Check-out File

, .(
) 가 가

Check-in File

, 가

Undo-checkout

가 ,
가 ,
.

Get latest version

.(
가)

Add File

가 가 .

Select project

(
) . TOAD .ini .
가 . 가
SCC
. Source Control
.

TOAD Source Control

1 .
2 가 SCC API .
가
.


3 View > Options > Source Control .

4 SCC , .

- 5 Procedure Editor . (Source Control) Procedure Editor .
- 6 Procedure Editor Source Control > Select Project .
- 7 SCC 가 .
 , ,
 : 가
- 8 Source Control , ,
 File , 가 Source Control > Add
 가 ,

(Schema Browser)

Schema Browser

- TOAD 
- Database > Schema Browser .
- View > Options > StartUp
 Schema Browser 가 .

(Object Tabs)

()

가

Configure Browser Tabs

Configure

Configure Browser Tabs

Up Arrow

Down Arrow

(Panels Right -Click Menus)

Schema Browser

가

(Navigation)

Schema Browser

Tables

Change Active Session

(active session)



Refresh All

Refresh All

Schema Browser



Refresh Detail

Refresh Detail



Clear Data Grid Filters

(Tables), (Procs), (Triggers), (Views),
 (Synonyms), (Constraints).
 “ A ” , .

View > Options (Configure Options) > Schema Browser
 Schema Browser Options . 2
 , Page 1 Page 2 .

(Tables)

Table , 7/ .
 Schema Browser .

Tables
 Incrementally Drop Table .
 Incrementally drop table



Create Script

Create Script Options Table Script
 Creation .
 Options , Output



Create Table

Create Table Create Table . Create > Table



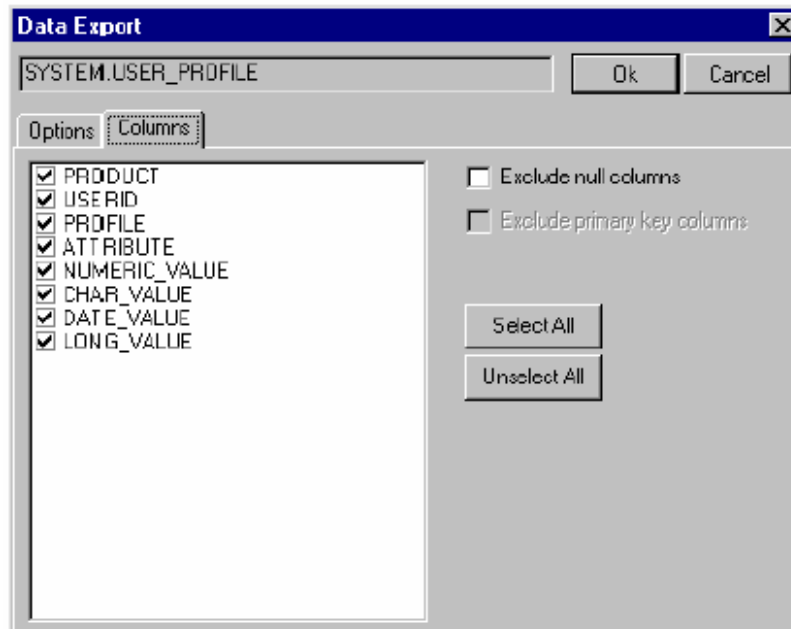
Alter Table

Alter Table Tables
가



Export Data

Export Data “INSERT
INTO ” SQL . Export Data Table
Data Export window



Export Data

Data Export



Load table in SQL Modeler

SQL Modeler Table Objects
Panel Model Table



Analyze Table

Analyze Table Analyze Tables



Table Filter

Table Filter

Browser Filters

Browser Filters

Browser Filter

SCOTT

EMP

- Starts with
- Includes
- Ends with
- Not like

SCHEMA가 , TOAD \ TEMPS
SCHEMA.FLT !



Rebuild Table



Compile Dependencies

Procedure

View



Drop Table



Truncate Table

Table - Columns

Table - Columns Details Panel

Add a Column

Table - Indexes

Table - Constraints

Table - Triggers

Table - Data

Table - Scripts

Table - Grants

Table - Partitions

Table - Stats/Size

Table - Referential

Referential

Table - Used by

Used By , , , ,
.

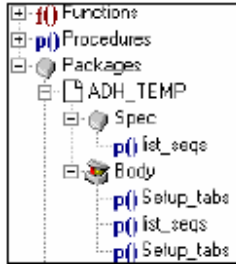
(Views)

, , , , ,
, SQL Editor SQL
.
.
Columns, Source, Data, Grants, Deps(uses) Deps(Used
by) . Dependencies .
가 . Deps
.
Deps
, <F4> .

(Synonyms)

, , , , , ,
(original
object) .
,
Filters . SYS/SYSTEM 가
.
. Show Public synonyms except those for objects owned by
SYS/SYSTEM .
가 .
, ,
. Unknown Objects UNKNOWN .
.
, 가 Object View
.
, .

(Procedures)



PL/SQL Procedures, Functions, Packages

X

(X)

Package



Proc Edit

Procedure Edit

Load,

Load Spec Only,

Load Body Only

Compile

Compile, Compile Spec Only, or Compile Body Only

Compile All

. 8.1.7

(INVALID)

Procs Filter

Browser Filter

217

Filters

Compile Dependencies

A가

B

B

Compile Dependencies

TOAD

A

가

. Yes No .

Execute Procedure Set Parameters ,

OK .

Privileges .

Public Synonym , ,

. Code, Arguments, Deps (Uses), Deps (Used by), Errors,

Grants .

Dependencies (Uses Used By) .

가 , 가 . Deps ,

. <F4>

Deps

Errors ,

. 가 .

(Triggers)

Triggers

- Red Circle with a slash

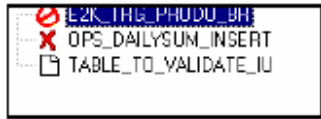
가 .

- Red X

가 .

- White page

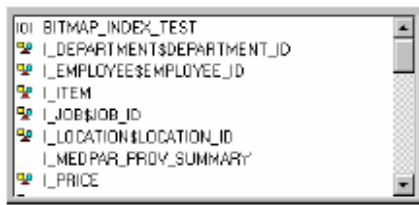
가 .



Objects , , , 가
 Procedure Editor Proc Edit (Trigger to
 Proc Editor)
 . Columns ,
 . Source
 SQL
 <CTRL> A , <CTRL>C

(Indexes)

"101" BITMAP , Yellow Square
 + Red Triangle + Blue Circle UNIQUE (non unique
), "f ()"



Create Script Create Index

Rebuild Index

Rebuild Index Rebuild Multiple Indexes(Tools Schema
 Browser > Tables right-click menu)
 TOAD

Analyze Index COST

Filters Indexes List	Index Names	Table Names
Browser Filters	.	
	Column, Stats, Partitions, Script가	

(Constraints)

Constraints

(
가
Oracle 가 . x가
,

Constraints Filter Browser Filter

•

(Sequences)

Sequences Oracle

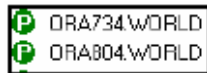
Grants

JAVA

TOAD	Oracle 8i	JAVA
	Java	.
	Publish Java to PL/SQL	.
Code	.	

DB (DB Links)

DB Links 가 가
. Link (가)
(가).



(P) .

DB Links

, Creat Public DB
Copy script to clipboard Creat Database Link
Create new database link .
DB
가 .

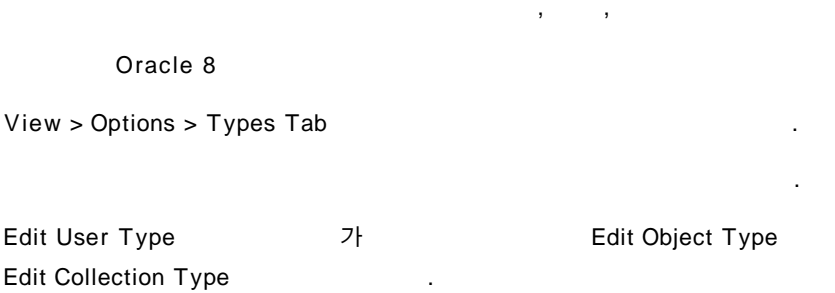
(Users)

, , SQL
.
.()
.
Expire User
.
Info, Roles, Privileges
Roles Privileges Revoke Revoke all
(Revoke) (Revoke all)
.

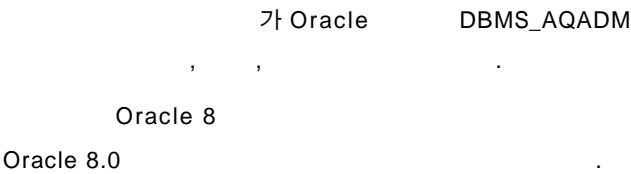
(Jobs)

, , 가 ,
.
LOG USER, NEXT DATE, INTERVALS ,

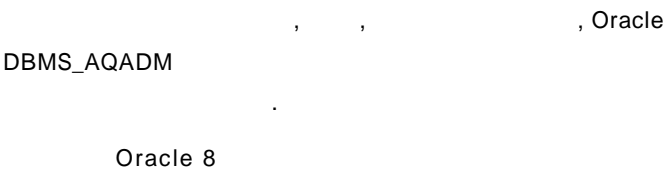
(Types)



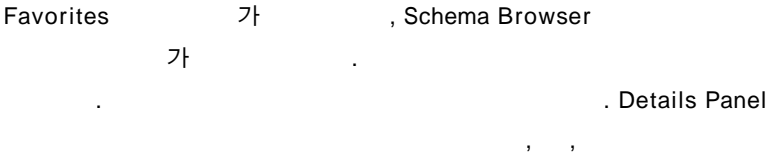
(Queue Tables)



(Queues)



(Favorites)



() . Schema
 Browser Add to Favorites

Schema Browser Tasks

Schema Browser

<CTRL>C Table/Columns Views/Columns

Tables > Columns

1

<CTRL>

<SHIFT>

Columns	Indexes	Constraints	Triggers	Data	Scripts	Grants	Partitions
Show no comments							
							CUSTOMER_ID
Column	Pk	Data Type	Null?	Default			
CUSTOMER_ID	1	NUMBER (6)	N				
NAME		VARCHAR2 (45)	Y				
ADDRESS		VARCHAR2 (40)	Y				
CITY		VARCHAR2 (30)	Y				
STATE		VARCHAR2 (2)	Y				
ZIP_CODE		VARCHAR2 (9)	Y				
AREA_CODE		NUMBER (3)	Y				
PHONE_NUMBER		NUMBER (7)	Y				
SALESPERSON_ID		NUMBER (4)	Y				
CREDIT_LIMIT		NUMBER (9,2)	Y				
COMMENTS		LONG	Y				

2 <CTRL>C Edit > Copy

, CUSTOMER_ID, CITY, ZIP_CODE

CUSTOMER_ID, CITY, ZIP_CODE,

Schema Browser window > Tables page > Export Data

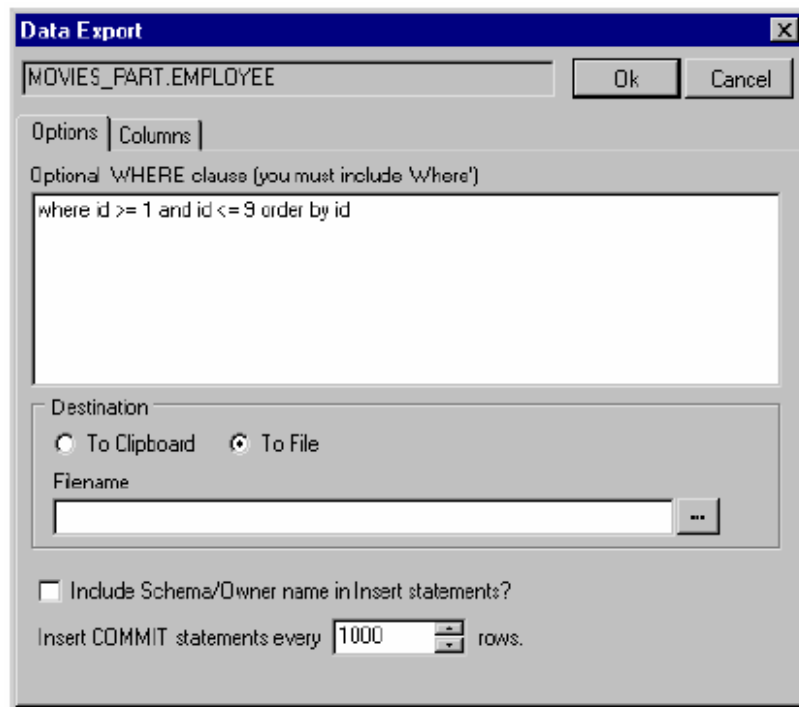
Data Export window

Options

WHERE where

“ WHERE ” “ ORDER BY ” 가

TOAD SQL 가



가

Options > Schema Browser > Page 1
own objects in dropdown lists

. View >
Only show users that

Quest ScriptRunner

Quest ScriptRunner TOAD
DDL DML

SQL Modeler

SQL Modeler Select, Insert, Update, Delete
· , , , ,

Kill/Trace Session

TOAD Reports

TOAD Reports
· View > Reports
Reports
·
1
2
3 Run · Print Preview · Print Preview
가
·

HTML Schema Doc Generator

Tools > HTML Schema Doc Generator
·
Source
Begin HTML Schema Doc Generation HTML
· HTML
·

File > Network Utilities
·

View > Options > Network Utilities

Network Utilities

Telnet

Telnet(Telecommunications Network)

Internet RFC 854

Host Name/IP(IP)

Port

Connect

<Enter>

<Enter>

RExec

RExec Unix

가 Rexecd

Ping

ICMP

TNS Ping

TNS Ping TNS Listener 가 tnsnames.ora
Oracle

IP Addresses

IP Addresses URL IP
, IP URL

Object Search



Object Search

Tools > Object Search

Object

Search

Object Search

- 1 Schema/Owner .
- 2 Exclude Sys and System .
- 3 Search for .
- 4 Object Search . Text occurs anywhere, Starts with Exact match .
- 5 Source Search .
- 6 Search .
- 7 가 .
가 .
- 8 TABLE, VIEW PROCEDURE .

Master/Detail

Master/Detail .

Master/Detail

- 1 Tools > Master Detail Browser .
- 2 Schema .
- 3 Table .
- 4 Related tables .
- 5 .

SQL

DEPT SCOTT Related Tables
 EMP NEW YORK
 EMP

Tools > Rebuild Table

- 1 Rebuild Table
- 2 Tools > Rebuild Table
- 3 Tables
- 4 Options
- 5 Storage
- 6 Columns

() . ()
)
 .
 7 SQL 가
 SQL Edit
 가

SGA Trace Optimization

Tools > SGA Trace Optimization

DBA()
 Oracle SGA(System Global Area Oracle Shared Memory)
 SQL 가 SQL
 SGA 가

Refresh the List of Statements

SQL Load selected statement into the SQL
 Editor

SGA .(Flush the SGA) SGA
 Oracle SQL
 가 . Flush the SGA

SQL (SQL, Execution Stats Explain Plan)
 SQL

Execution Stats

SQL 가
 SQL
 SQL SQL

SQL "SQL Body Unavailable" 가 SQL
 SQL Oracle SGA
 SQL SGA
 가

Explain Plan

SQL SQL Explain Plan

Java

TOAD Java
 Java Manager Java /
 Java to PL/SQL Java PL/SQL
 Schema Browser Java / /
 SQL Editor Java

TOAD-DBA

TOAD-DBA DBA , Schema Browser Create
 가 . TOAD-DBA
 TOAD
 TOAD-DBA
 Database Monitor Unix Monitor ?
 Instance Manager ?
 Database Health Check ?
 Top Session Finder ?
 Oracle Parameters ?
 NLS(National Language Support) Parameters ? ,

Tablespace Map ?

TOAD Control Files ?

Pinned Code ?

New Database Wizard ?

Identify Space Deficits ?

Redo Log Manager ?

Log Switch Frequency Map ? 가

LogMiner ? (SCN)

Export Utility Wizard ? Virtual DBA

Import Utility Wizard ? Virtual DBA
가 .

Generate Schema Script ?
DDL

Compare Schemas ?	DBA	def
/		

Unix Scheduler - Unix

Unix and Windows Registry Parameters -

(Schema Browser)

TOAD-DBA Schema Browser Dimensions, Directories, Libraries,
Policies, Profiles, Roles, Rollback Segments Tablespaces

, 가 . ,

Create

TOAD-DBA Create Dimensions, Directories, Libraries,
Policy Definitions, Profiles, Roles, Rollback Segments
Tablespaces 가 .