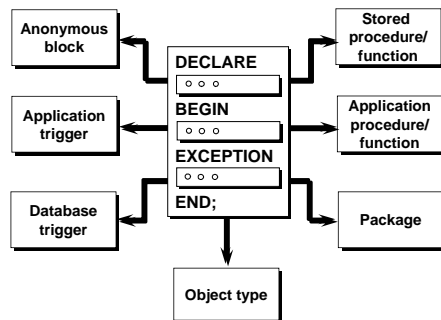


PL/SQL Program Constructs



Block Structure for Anonymous PL/SQL Blocks

DECLARE (optional)
Declare PL/SQL objects to be used within this block

BEGIN (mandatory)
Define the executable statements

EXCEPTION (optional)
Define the actions that take place if an error arises

END; (mandatory)

Block Structure for PL/SQL Subprograms

Header
IS|AS
Declaration section
BEGIN
Executable section
EXCEPTION (optional)
Exception section
END;

Benefits of Subprograms

- Improved maintenance
- Improved data security and integrity
- Improved performance

Development Environments

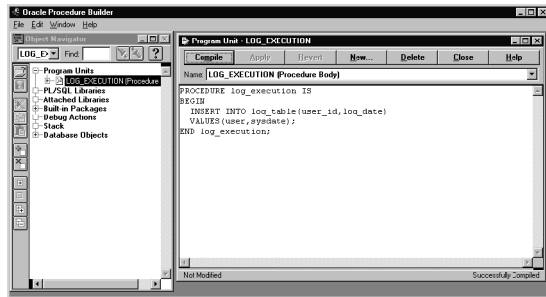
- SQL*Plus uses the PL/SQL engine in the Oracle Server
- Procedure Builder uses the PL/SQL engine in the client tool or in the Oracle Server

Developing Procedures and Functions Using SQL*Plus

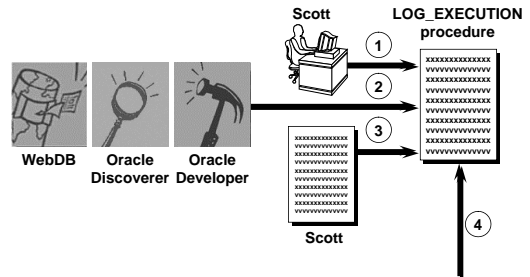
```

logexec.sql - Notepad
File Edit Search Help
CREATE OR REPLACE PROCEDURE log_execution
IS
BEGIN
  INSERT INTO log_table (user_id, log_date)
  VALUES (user, sysdate);
END log_execution;
  
```

Developing Procedures and Functions Using Oracle Procedure Builder



Invoking Stored Procedures and Functions



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