

What Is PL/SQL?

PL/SQL:

- Stands for Procedural Language extension to SQL
- Is Oracle Corporation's standard data access language for relational databases
- Seamlessly integrates procedural constructs with SQL



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Objectives

After completing this lesson, you should be able to do the following:

- Explain the need for PL/SQL
- · Explain the benefits of PL/SQL
- Identify the different types of PL/SQL blocks
- Use iSQL*Plus as a development environment for PL/SQL
- Output messages in PL/SQL

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About PL/SQL

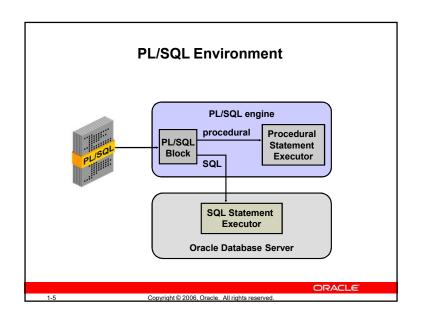
PL/SQL:

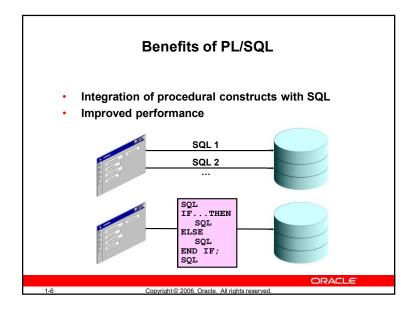
- Provides a block structure for executable units of code. Maintenance of code is made easier with such a well-defined structure.
- · Provides procedural constructs such as:
 - Variables, constants, and types
 - Control structures such as conditional statements and loops
 - Reusable program units that are written once and executed many times

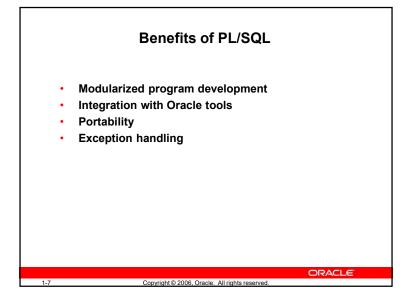
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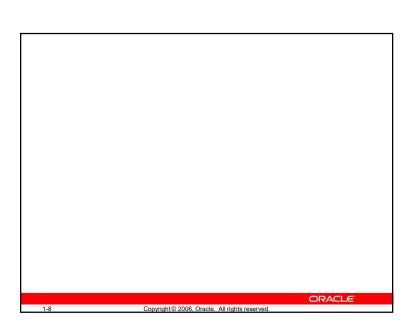
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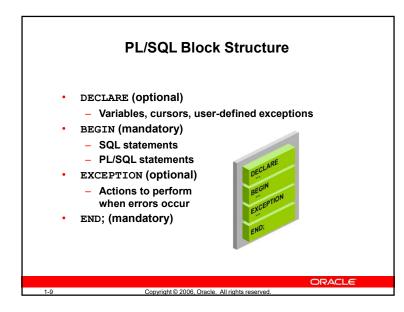
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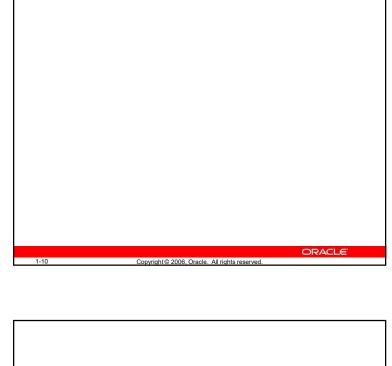


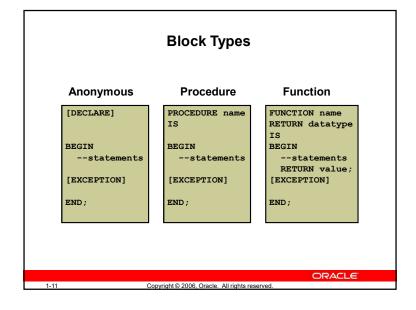


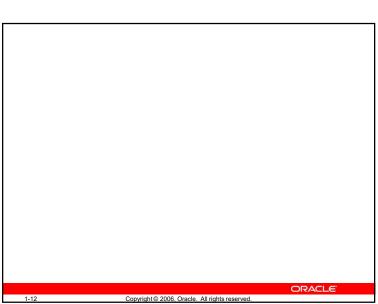


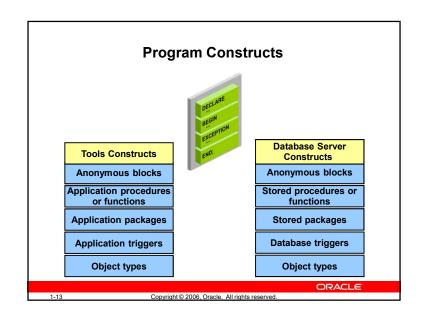


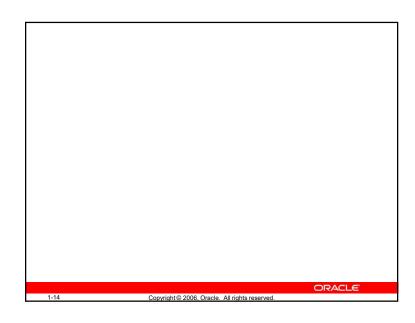


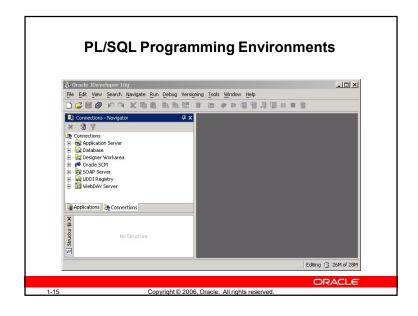


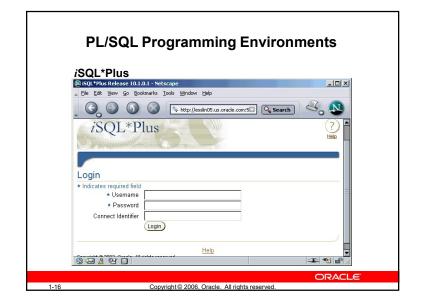


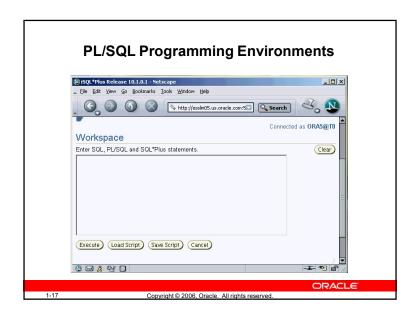


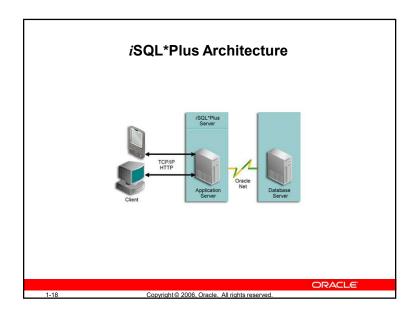


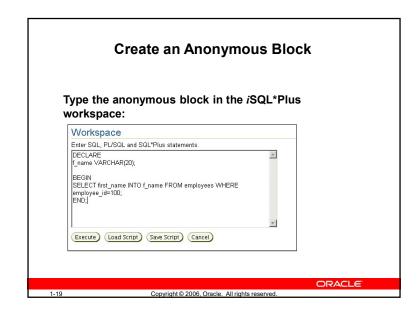


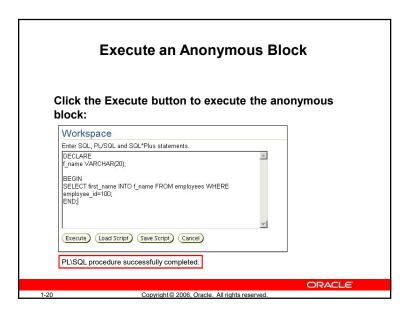












Test the Output of a PL/SQL Block

- Enable output in iSQL*Plus with the following command:
 - SET SERVEROUTPUT ON
- Use a predefined Oracle package and its procedure:
 - DBMS OUTPUT.PUT LINE

```
SET SERVEROUTPUT ON
...

DBMS_OUTPUT.PUT_LINE(' The First Name of the Employee is ' || f_name);
...
```

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Summary

In this lesson, you should have learned how to:

- Integrate SQL statements with PL/SQL program constructs
- Identify the benefits of PL/SQL
- Differentiate different PL/SQL block types
- Use iSQL*Plus as the programming environment for PL/SQL
- Output messages in PL/SQL

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Practice 1: Overview

This practice covers the following topics:

- Identifying which PL/SQL blocks execute successfully
- Creating and executing a simple PL/SQL block

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