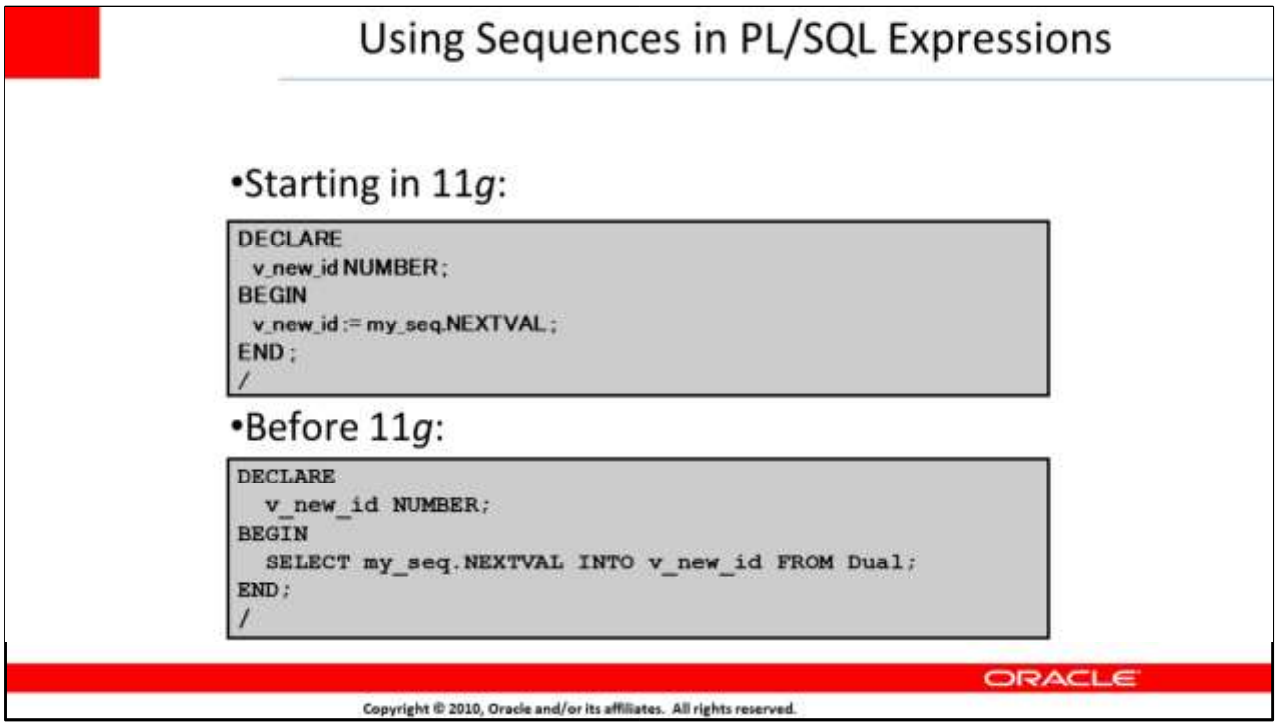


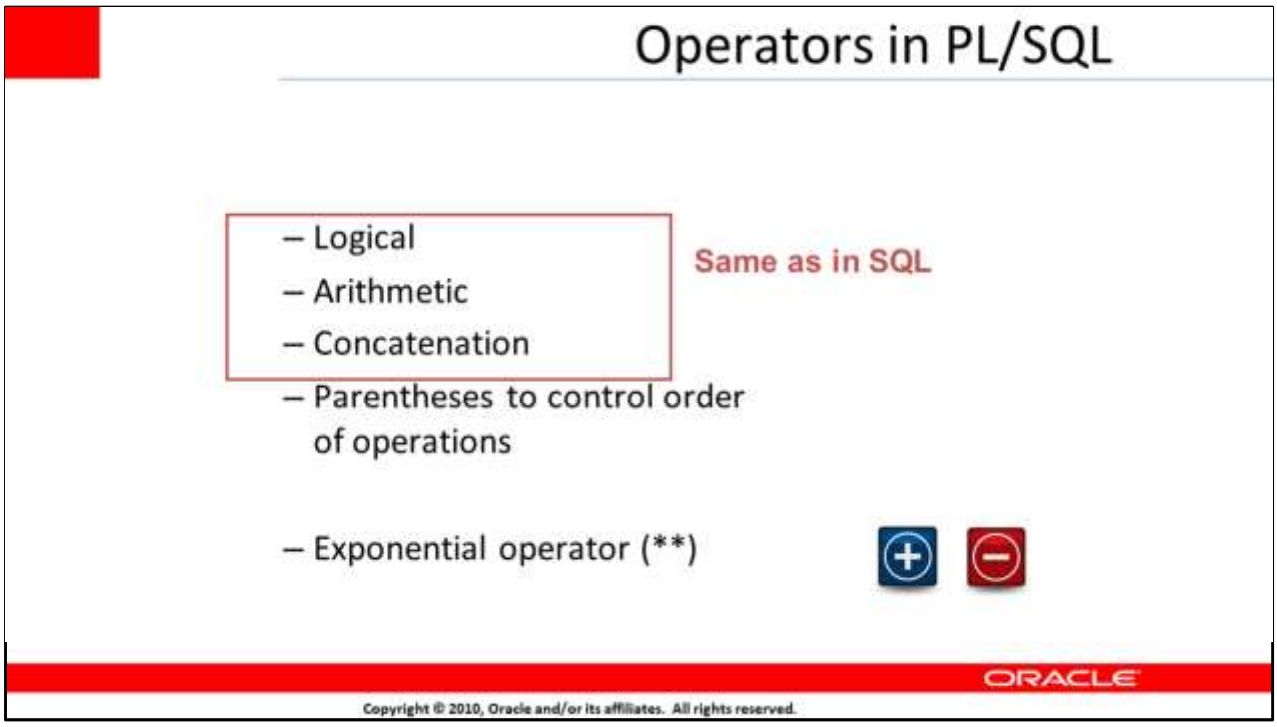
Accessing Sequence Values

In Oracle Database 11g, you can use the NEXTVAL and CURRVAL pseudocolumns in any PL/SQL context, where an expression of the NUMBER data type may legally appear. Although the old style of using a SELECT statement to query a sequence is still valid, it is recommended that you do not use it.

Before Oracle Database 11g, you were forced to write a SQL statement in order to use a sequence object value in a PL/SQL subroutine. Typically, you would write a SELECT statement to reference the pseudocolumns of NEXTVAL and CURRVAL to obtain a sequence number. This method created a usability problem.

In Oracle Database 11g, the limitation of forcing you to write a SQL statement to retrieve a sequence value is eliminated. With the sequence enhancement feature:

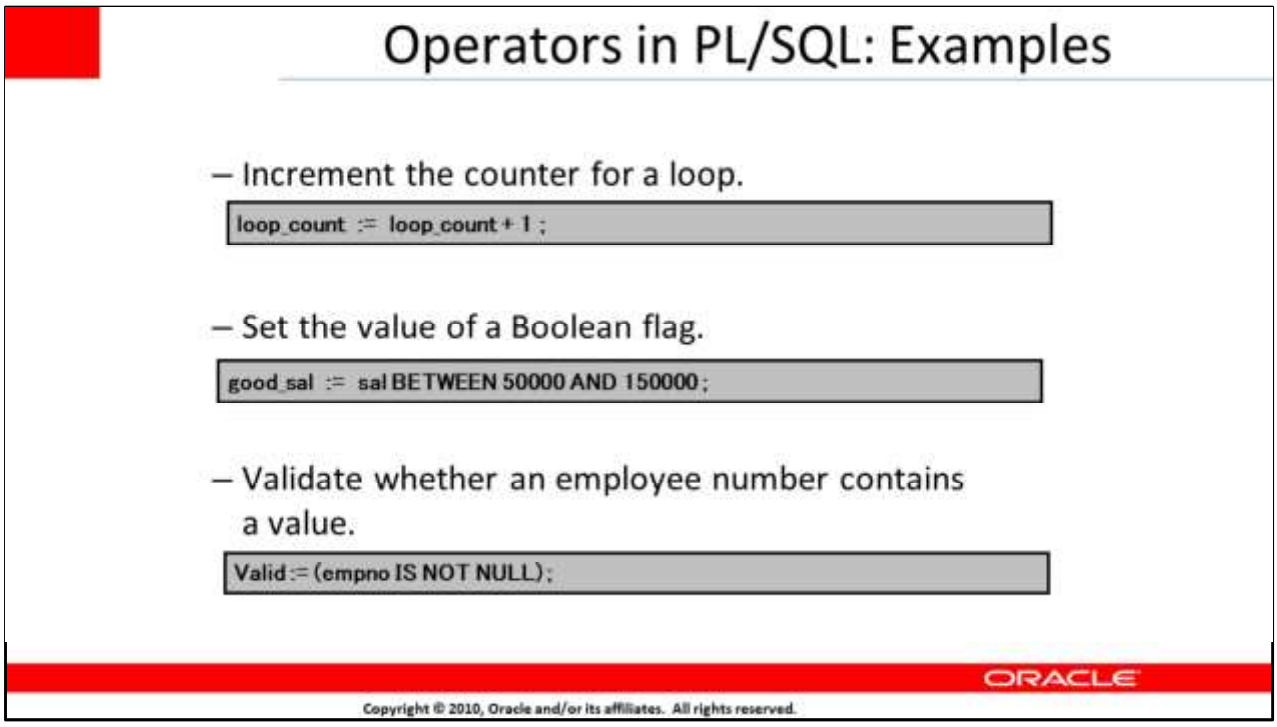
- Sequence usability is improved
- The developer has to type less
- The resulting code is clearer



Operators in PL/SQL

The operations in an expression are performed in a particular order depending on their precedence (priority). The following table shows the default order of operations from high priority to low priority:

Operator	Operation
**	Exponentiation
+, -	Identity, negation
*, /	Multiplication, division
+, -, ||	Addition, subtraction, concatenation
=, <, >, <=, >=, <>, !=, ~=, ^=, IS NULL, LIKE, BETWEEN, IN	Comparison
NOT	Logical negation
AND	Conjunction
OR	Inclusion



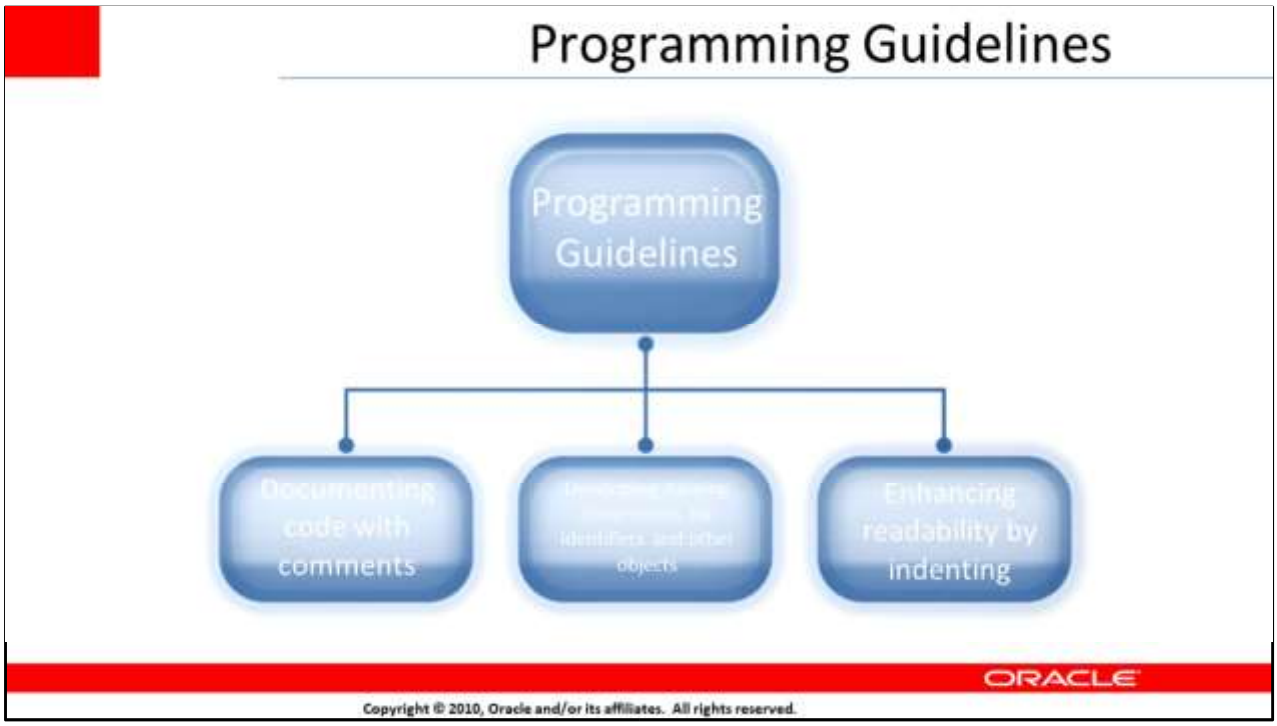
Operators in PL/SQL (continued)

When you are working with nulls, you can avoid some common mistakes by keeping in mind the following rules:

Comparisons involving nulls always yield NULL.

Applying the logical operator NOT to a null yields NULL.

In conditional control statements, if the condition yields NULL, its associated sequence of statements is not executed.



Oracle Database: PL/SQL Fundamentals

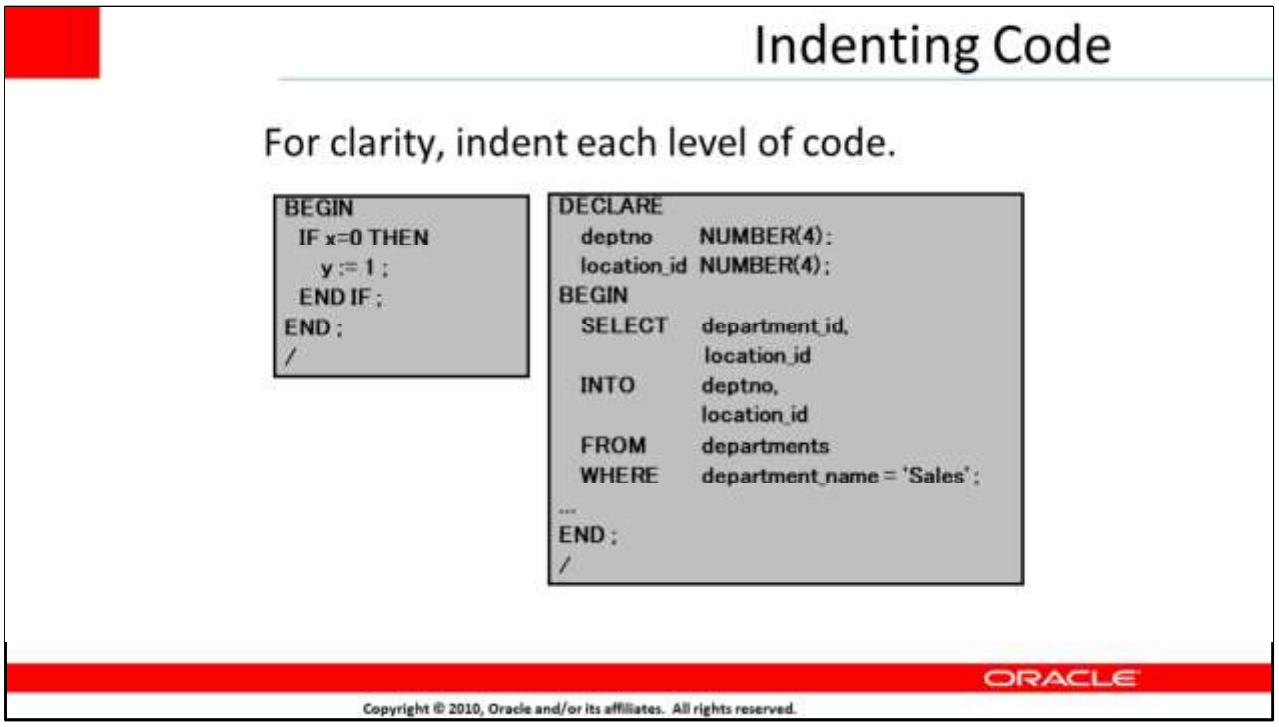
Programming Guidelines

Follow programming guidelines shown in the slide to produce clear code and reduce maintenance when developing a PL/SQL block.

Code Conventions

The following table provides guidelines for writing code in uppercase or lowercase characters to help distinguish keywords from named objects.

Category	Case Convention	Examples
SQL statements	Uppercase	SELECT, INSERT
PL/SQL keywords	Uppercase	DECLARE, BEGIN, IF
Data types	Uppercase	VARCHAR2, BOOLEAN



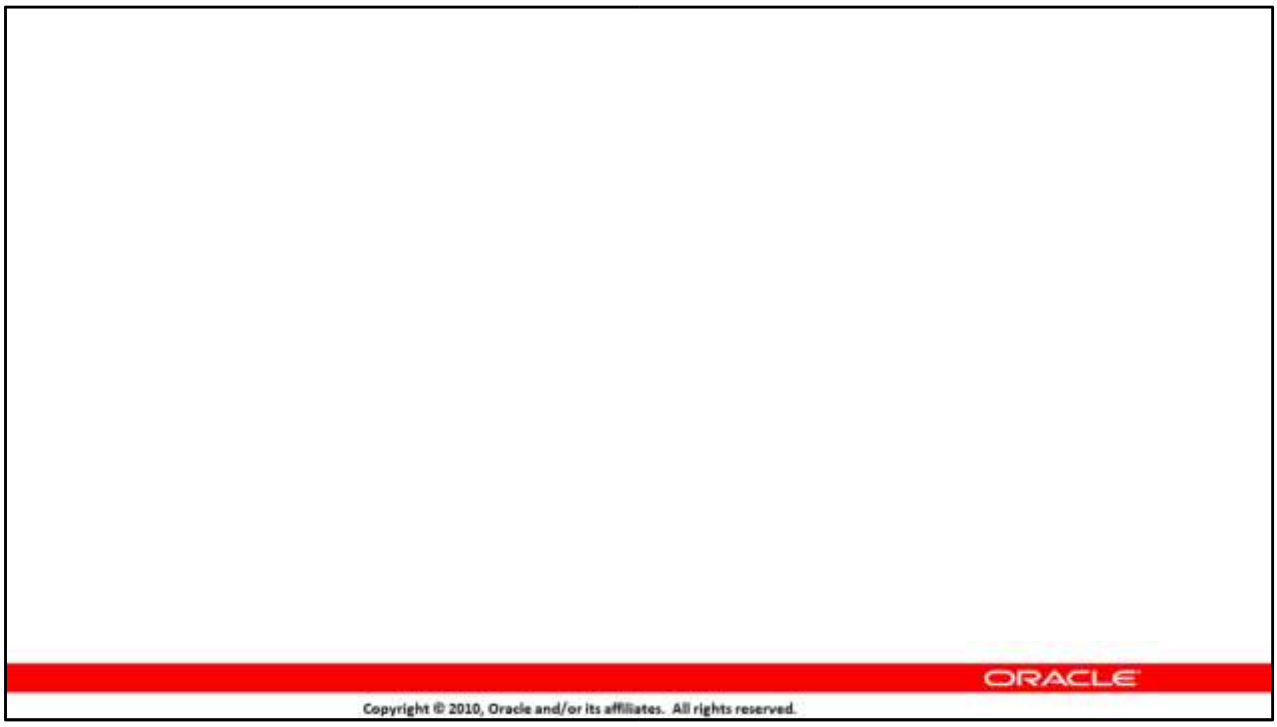
Identifiers and parameters	Lowercase	v_sal, emp_cursor, g_sal, p_empno
Database tables	Lowercase, plural	employees, departments
Database columns	Lowercase, singular	employee_id, department_id

Indenting Code

For clarity and enhanced readability, indent each level of code. To show structure, you can divide lines by using carriage returns and you can indent lines by using spaces and tabs. Compare the following IF statements for readability:

```
IF x>y THEN max:=x;ELSE max:=y;END IF;
```

```
IF x > y THEN
  max := x;
ELSE
  max :=
  y;
END IF;
```



Oracle Database: PL/SQL Fundamentals