

Chapter 1: Control Structures

You will learn:

- Uses and types of control structures.
- Constructing an IF statement.
- CASE expressions.
- Constructing and identifying different loop statements.
- Logic tables.
- Controlling block flow using nested loops and labels.

Chapter 2: Composite Data Types

You will learn:

- User-defined PL/SQL records.
- Creating a record with the %ROWTYPE attribute.
- Creating a INDEX BY table.
- Creating INDEX BY table of records.
- Difference between records, tables, and tables of records.

Chapter 3: Explicit Cursors

You will learn:

- Differences between an implicit and an explicit cursor.
- When and why to use an explicit cursor.
- Use of a PL/SQL record variable.
- Writing a cursor FOR loop.
- Writing a cursor that uses parameters.
- Use of FOR UPDATE clause in a cursor.
- Use of the HERE CURRENT OF clause.
- Writing a cursor that uses a subquery.
- File name transformations.

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Chapter 4: Programming Style

- Effective coding styles.
- Effective layout.
- Formatting single statements.
- Formatting declarations.
- Formatting multi-line statements.
- Formatting SQL statements.
- Formatting control structures.
- Formatting exception handlers.
- Formatting PL/SQL blocks.
- Formatting packages.
- Using comments.
- Documenting the entire package.

Chapter 5: Case Expressions

You will learn:

- CASE statements in PL/SQL programs.
- CASE expressions.
- Searched CASE expression.

Chapter 6: Oracle Objects

You will learn:

- Abstraction.
- Object types.
- Overloading.
- Constructor methods.
- Declaring and initializing objects.
- Accessing attributes.
- Constructors.
- Calling methods.

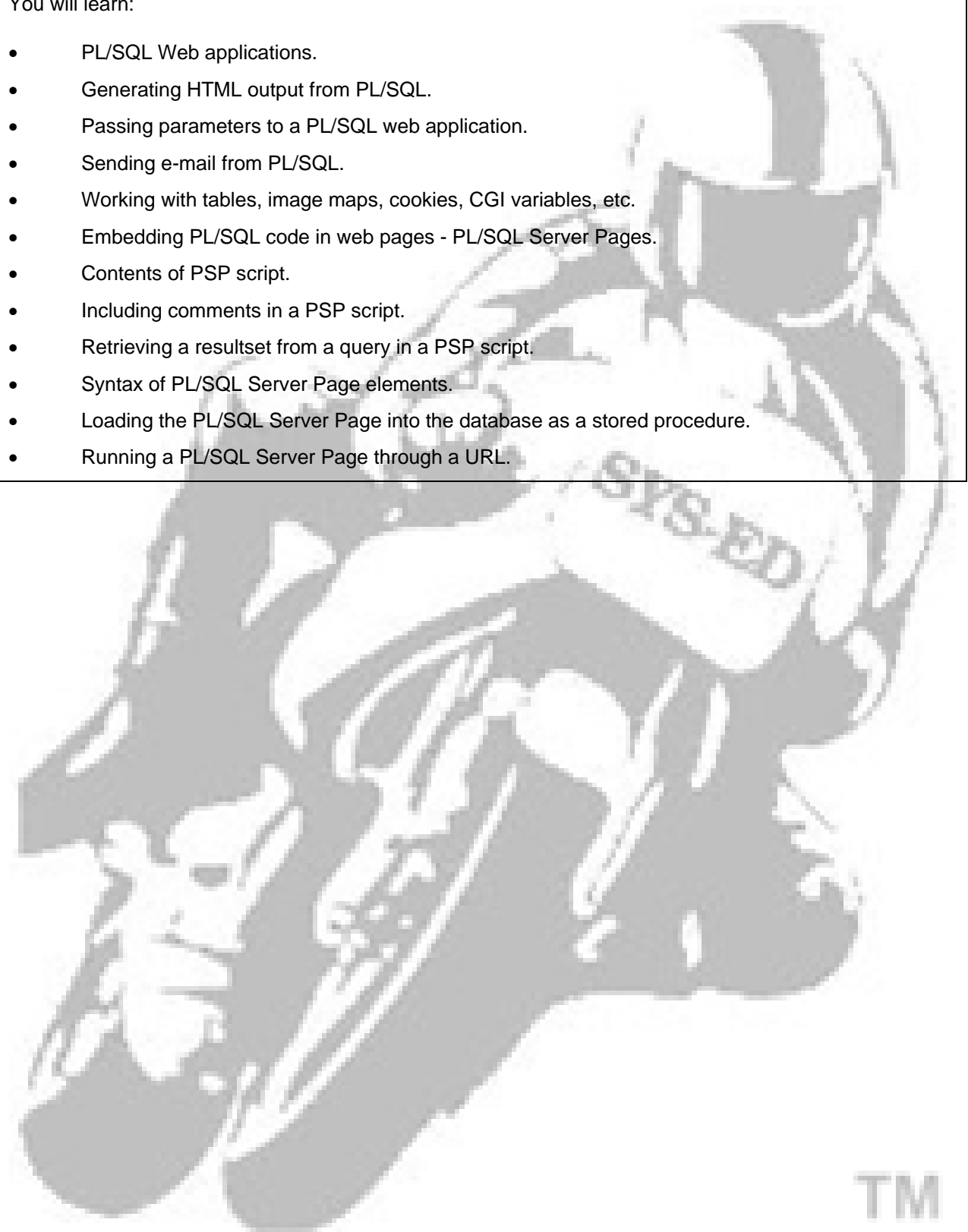
<ul style="list-style-type: none"> • Objects: inserting, updating, and deleting objects. • PL/SQL type inheritance.
<p>Chapter 7: Compiling PL/SQL Code</p> <p>You will learn:</p> <ul style="list-style-type: none"> • Compiling PL/SQL code. • Interpreted versus native compilation mode.
<p>Chapter 8: Table and Table Functions</p> <p>You will learn:</p> <ul style="list-style-type: none"> • Table and table functions. • Returning multiple rows with table functions. • Table performance. • Pipelined table functions. • Querying table functions. • Dynamic SQL. • Manipulating cursor expressions in PL/SQL.
<p>Chapter 9: Bulk and FORALL</p> <p>You will learn:</p> <ul style="list-style-type: none"> • Bulk binds for improving performance. • Handling FORALL exceptions. • Restrictions on FORALL. • BULK COLLECT clause. • Bulk FETCH operation with the LIMIT clause. • BULK COLLECT restrictions. • FORALL and BULK COLLECT – using together.
<p>Chapter 10: Bulk Binding Enhancements and Session Settings</p> <p>You will learn:</p> <ul style="list-style-type: none"> • Bulk binding. • Handling and reporting exceptions.

Chapter 11: Multilevel Collections
You will learn: <ul style="list-style-type: none">• Multilevel collections.• Varray and nested table.• Constructors for multilevel collections.• Utl_File.
Chapter 12: Sending E-mail
You will learn: <ul style="list-style-type: none">• Sending e-mail.• Sending e-mail with the Utl_Smtp package.
Chapter 13: Autonomous Transactions
<ul style="list-style-type: none">• Distributed transactions.• Autonomous transaction.
Chapter 14: Pipes
<ul style="list-style-type: none">• DBMS_PIPES.• Loading a pipe.• Getting data from a pipe.• Main Procedure to load and read from a pipe.
Chapter 15: External Pipes
<ul style="list-style-type: none">• External tables.• Creating the flat files to be queried.• Querying data.• Creating views.• Populating tables using the INSERT command.
Chapter 16: External Packages/Procedures
You will learn: <ul style="list-style-type: none">• External procedures.• Architecture.
Chapter 17: Java and PL/SQL
<ul style="list-style-type: none">• Calling Java from PL/SQL.• Calling PL/SQL from Java.

Chapter 18: Web Applications and PL/SQL

You will learn:

- PL/SQL Web applications.
- Generating HTML output from PL/SQL.
- Passing parameters to a PL/SQL web application.
- Sending e-mail from PL/SQL.
- Working with tables, image maps, cookies, CGI variables, etc.
- Embedding PL/SQL code in web pages - PL/SQL Server Pages.
- Contents of PSP script.
- Including comments in a PSP script.
- Retrieving a resultset from a query in a PSP script.
- Syntax of PL/SQL Server Page elements.
- Loading the PL/SQL Server Page into the database as a stored procedure.
- Running a PL/SQL Server Page through a URL.

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