

Database Programming with PL/SQL 1-3: Creating PL/SQL Blocks Practice Activities



Vocabulary

Identify the vocabulary word for each definition below:

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An onlymus PL/SQLB	Innamed blocks of code not stored in the database and do not exist after they are executed	
1/1(0)(/1)(4)/ 2/20	exist after they are executed	
Function A program that computes and returns a value		
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Subprograms	Named PL/SQL blocks that are stored in the database and can	
740 (10314)113	be declared as procedures or functions	
Compiler	Software that checks and translates programs written in high-	
Coliditio	level programming languages into binary code to execute	
Procedures	A program that performs an action and does not have to return a	
1 100 CONTROL	value	

Try It / Solve It

1. Complete the following chart defining the syntactical requirements for a PL/SQL block:

	Optional or Mandatory?	Describe what is included in this section
DECLARE	optional	Variables, Cursors, usudefind exception
BEGIN	Mandatory	SQL StatmentsPL/SQL Statments
EXCEPTION	Optional	Actions to Parform Whenerrors Occur
END;	Mandatory	End, (With Semicolon)

- 2. Which of the following PL/SQL blocks executes successfully? For the blocks that fail, explain why they fail
 - A. BEGIN A Fails because the executable there section must contain at least one statment END;
 - B. DECLARE amount INTEGER(10); B Fails because there is no executable section (BEGIN is missing) END;
 - C. DECLARE
 BEGIN
 END; C. Fails Decause the executable there section must contain at least one statement

- D. DECLARE
 amount NUMBER(10);
 BEGIN
 DBMS_OUTPUT_LINE(amount);
 END:
- 3. Fill in the blanks:
 - A. PL/SQL blocks that have no names are called anonymous blocks.
 - B. <u>Procedures</u> and <u>Functions</u> are named blocks and are stored in the database.
- 4. In Application Express, create and execute a simple anonymous block that outputs "Hello World."

 REGINDBMS_otuput.Put_Line('Hello World'); End;

Extension Exercise

- 1. Create and execute a simple anonymous block that does the following:
 - Declares a variable of datatype DATE and populates it with the date that is six months from today
 - Outputs "In six months, the date will be: <insert date>."

