Oracle 11G PL SQL Programming 2nd Edition Casteel Test Bank

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CHAPTER 2 - BASIC PL/SQL BLOCK STRUCTURES

TRUE/FALSE

1. The term anonymous blocks refers to blocks of code that are not stored for reuse and do not exist after being executed.

ANS: T PTS: 1 REF: 37

2. The only required sections of a PL/SQL block are DECLARE and END.

ANS: T PTS: 1 REF: 37

3. The BEGIN section of a PL/SQL block contains code that creates variables, cursors, and types.

ANS: F PTS: 1 REF: 38

4. Assignment statements are used to put or change the values of variables.

ANS: T PTS: 1 REF: 41

5. The keyword DEFAULT can be used in place of the := symbol to assign initial values to the variables within the declaration statement.

ANS: T PTS: 1 REF: 41

6. The LOOP statement is a mechanism that allows the checking of a condition to determine if statements should or should not be processed.

ANS: F PTS: 1 REF: 53

7. When an IF statement checks only one condition and performs actions only if the condition is TRUE, it is referred to as a simple IF condition.

ANS: T PTS: 1 REF: 53

8. With respect to processing efficiency, the less code that has to be processed, the faster the program runs.

ANS: T PTS: 1 REF: 49

9. The syntax of the following code fragment is correct: IF rec_order.state = 'VA' THEN lv_tax_num := rec_order.sub * .06; ELSEIF rec_order.state = 'ME' THEN lv_tax_num := rec_order.sub * .05; ELSE lv_tax_num := rec_order.sub * .04; END IF
ANS: F PTS: 1 REF: 56

10.	The syntax of the following code fragment is correct. IF rec_order.state = 'VA' THEN lv_tax_num := rec_order.sub * .06; ELS IF rec_order.state = 'ME' THEN lv_tax_num := rec_order.sub * .05; END IF						
	ANS: F	PTS:	1	REF:	56		
11.	The CASE statement name.	t begins	with the keywo	ord CA	SE followed by a selector that is typically a variable		
	ANS: T	PTS:	1	REF:	63		
12.	The following code f BEGIN LOOP DBMS_OUTP lv_cnt_num := END LOOP; END;	PUT.PU	T_LINE(lv_cn	-	of the use of a basic loop.		
	ANS: F	PTS:	1	REF:	69		
13.	An infinite loop caus with any processing			ndefinit	tely, disrupting the ability of the code to continue		
	ANS: T	PTS:	1	REF:	69		
14.	The EXIT WHEN cl	ause en	sures that a bas	ic loop	runs at least once.		
	ANS: T	PTS:	1	REF:	70		
15.	BEGIN WHILE lv_cnt_n	um <= 5 VUT.PU	5 T_LINE(lv_cn		of the use of a WHILE loop.		
	ANS: F	PTS:	1	REF:	72		
16.	BEGIN WHILE lv_cnt_n DBMS_OUTP lv_cnt_num := END LOOP; END;	um <= 5 PUT.PU' lv_cnt_	5 LOOP T_LINE(lv_cn _num + 1;				
	ANS: F	PTS:	1	REF:	12		

17. The following loop terminates when the lv_cnt_num variable holds a value of 6.

]]	N HILE lv_cnt_nu DBMS_OUTPI lv_cnt_num := D LOOP;	UT.PUT	Γ_LINE(lv_cn	t_num);	
	ANS:	Т	PTS:	1	REF:	72	
18.	BEGII FC	ollowing code fr N DR i IN 15 DBMS_OUTP END LOOP;	C		ample	of the use of a l	FOR loop.
	ANS:	F	PTS:	1	REF:	73	
19.		hough the EXI clause only in b			n any ty	pe of loop, it is	s considered good form to use the
	ANS:	Т	PTS:	1	REF:	72	
MOD	IFIED	TRUE/FALSI	2				
				SOL block con	tains co	ode that creates	variables, cursors, and types.
							,
	ANS:	F, DECLARE					
	PTS:	1	REF:	38			
2.	A(n) <u>s</u>	<u>calar</u> variable c	an hold	l only a single v	value		
	ANS:	Т			PTS:	1	REF: 39
3.	The <u>D</u>	ECLARE secti	on of th	e PL/SQL bloc	ck conta	ains all the proc	cessing action, or programming logic.
	ANS:	F, BEGIN					
	PTS:	1	REF:	38			
4.		<u>XCEPTION</u> see ation will do if					nat allow you to control what the
	ANS:	Т			PTS:	1	REF: 38
5.		bles are named a your programs					eval and manipulation of values
	ANS:	Т			PTS:	1	REF: 39

6. The common data types used for <u>cursor</u> variables include character, numeric, date, and Boolean.

	ANS:	F, scalar					
	PTS:	1	REF: 39				
7.			t checks only one condition.				nly if the condition is TRUE, —
	ANS:	Т		PTS:	1	REF:	53
8.			statement does not use E clauses.			lually ev	valuates conditions that are
	ANS:	F, WHEN					
	PTS:	1	REF: 66				
9.	A(n) <u>C</u>	CASE expression	on evaluates condition	s and re	eturns a value i	n an ass	ignment statement.
	ANS:	Т		PTS:	1	REF:	67
10.	Loops	are used for si	tuations in which we n	need to 1	repeat a line or	lines of	code within our block.
	ANS:	Т		PTS:	1	REF:	69
11.	The <u>ba</u>	usic loop uses t	he LOOP and END LO	OOP ma	arkers to begin	and end	the loop code.
	ANS:	Т		PTS:	1	REF:	69
12.			e is not included the ba	asic looj 	p, the result is	the prog	grammer's nightmare of the
	ANS:	F, EXIT WHE	EN				
	PTS:	1	REF: 69				
13.	The <u>ba</u>	usic loop dictate	es exactly how many t	imes th	e loop should 1	run in th	e opening LOOP clause.
	ANS:	F, FOR					
	PTS:	1	REF: 69				
14.			nt and minimize staten side a loop			tatement	ts that are <u>dynamic</u> in nature
	ANS:	F, static					
	PTS:	1	REF: 69				

MULTIPLE CHOICE

1.	The only required sections of a PL/SQL block are the sections.a. BEGIN & DECLAREc. BEGIN & ENDb. DECLARE & EXCEPTIONd. EXCEPTION & END							
	ANS: C PTS: 1 R	REF: 38						
2.	 The section of a PL/SQL block contains a. DECLARE b. BEGIN 	as code that creates variables, cursors, and types.c. EXCEPTIONd. END						
	ANS: A PTS: 1 R	REF: 38						
3.	 are used to change the values of variable a. Loops b. Assignment statements 	les. c. Exceptions d. Blocks						
	-							
	ANS: B PTS: 1 R	REF: 44						
4.	 The section of a PL/SQL block contains will do if an error occurs when the executable a. EXCEPTION b. BEGIN 	 as handlers that allow you to control what the application e statements are processed. c. DECLARE d. END 						
	ANS: A PTS: 1 R	REF: 38						
5.	 are named memory areas that hold value program. a. Loops b. Assignment statements 	ues to allow the retrieval and manipulation of values in a c. Blocks d. Variables						
	-	REF: 39						
6.	 Which of the following lines of code is syntac a. DECLARE order NUMBER; departure DATE; BEGIN executable statements END 	ictically correct?						
	 b. DECLARE order NUMBER; departure DATE BEGIN executable statements END 							
	c. DECLARE order NUMBER(2); departure DATE; BEGIN; executable statements							

END

- d. DECLARE order NUMBER(3); departure DATE; BEGIN ---- executable statements ---END;
- ANS: D PTS: 1 REF: 41
- 7. Which of the following initializes the variable *order*?a. DECLARE order NUMBER(2);
 - departure DATE; BEGIN ---- executable statements ---END;
 - b. DECLARE order NUMBER(2) = 0; departure DATE; BEGIN ---- executable statements ---END;
 - c. DECLARE order NUMBER(2) =: 0; departure DATE; BEGIN ---- executable statements ---END;
 - d. DECLARE order NUMBER(2) := 0; departure DATE; BEGIN ---- executable statements ---END;
 ANS: D PTS: 1 REF: 41
- 8. Which of the following PL/SQL blocks requires the variable to always contain a particular value

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within the block?
a. DECLARE
    order NUMBER(2) := 0;
    departure DATE;
    BEGIN
    ---- executable statements ---
    END;
```

b. DECLARE order NUMBER(2,2) := .06; departure DATE; BEGIN ---- executable statements ---END;

- c. DECLARE order CONSTANT NUMBER(2,2) := .02; departure DATE; BEGIN ---- executable statements ---END;
- d. DECLARE order NUMBER(2) CONSTANT := .03; departure DATE; BEGIN ---- executable statements ---END;

ANS: C PTS: 1 REF: 48

9. DECLARE
 order NUMBER(2) := 4;
 total_amt NUMBER(2);
 BEGIN
 total_amt := order * 8;
 END;

According to the statement block above, what value is stored in the variable *total_amt*?

a. 4		c. 12
b. 8		d. 32
ANS: D	PTS: 1	REF: 50

10. Which of the following statement blocks correctly uses a scalar variable in an assignment statement? a. DECLARE

order NUMBER(2) := 4; total_amt NUMBER(2); BEGIN total_amt = 12; END;

- b. DECLARE order NUMBER(2) := 4; total_amt NUMBER(2); BEGIN total_amt := 12 * order; END;
- c. DECLARE
 order NUMBER(2) := 4;
 total_amt NUMBER(2);
 BEGIN
 order := total_amt *12;
 END;

d. DECLARE order NUMBER(2) := 4; total_amt NUMBER(2); BEGIN total_amt := total_amt *12; END: ANS: B PTS: 1 **REF: 50** 11. The statements that are used to control the flow of logic processing in your programs are commonly referred to as . a. exceptions c. pragma statements b. control structures d. index-by tables ANS: B PTS: 1 REF: 53 12. Which of the following statements is correct? a. IF order > 5prize = 'yes'; END IF; b. IF order > 5 THEN prize = 'yes'; **ENDIF** c. IF order > 5 THEN; prize = 'yes'; END IF: d. IF order > 5 THEN prize := 'yes'; END IF; ANS: D PTS: 1 **REF: 53** 13. Which of the following code fragments would not raise an error? a. IF rec order.state = 'VA' THEN lv_tax_num := rec_order.sub * .06; ELSEIF rec order.state = 'ME' THEN lv tax num := rec order.sub * .05; ELSE lv_tax_num := rec_order.sub * .04; END IF; b. IF rec order.state = 'VA' THEN lv_tax_num := rec_order.sub * .06; ELSE IF rec order.state = 'ME' THEN lv_tax_num := rec_order.sub * .05; ELSE lv_tax_num := rec_order.sub * .04; END IF; c. IF rec order.state = 'VA' THEN lv_tax_num := rec_order.sub * .06;

ELSIF rec_order.state = 'ME' THEN lv_tax_num := rec_order.sub * .05; ELSE lv_tax_num := rec_order.sub * .04; END IF; d. IF rec order.state = 'VA' THEN lv_tax_num := rec_order.sub * .06; ELS IF rec order.state = 'ME' THEN lv tax num := rec order.sub * .05; ELSE lv_tax_num := rec_order.sub * .04; END IF: ANS: C PTS: 1 REF: 56 14. Which of the following code fragments would not raise an error? a. IF rec.state = 'VA' OR 'PA' THEN a := b * .06; ELSE a := b * .04; END IF; b. IF rec.state = 'VA' OR rec.state = 'PA' THEN a := b * .06; ELSE a := b * .04; END IF; c. IF rec.state = 'VA' OR rec.state = 'PA' a := b * .06; ELSE a := b * .04;END IF; d. IF rec.state = 'VA' OR rec.state = 'PA' THEN a := b * .06; ELSE a := b * .04; END IF ANS: B PTS: 1 REF: 54

- 15. Which of the following does not use a selector, but individually evaluates conditions that are placed in WHEN clauses?
 - a. Control statementsc. Loopsb. Searched CASEd. CASE expressionANS: BPTS: 1REF: 66
- 16. Which of the following evaluates conditions and returns a value in an assignment statement?
 - a. Searched CASEb. Basic loop

c. CASE expressiond. Control statement

ANS: C PTS: 1 REF: 67

17. Which of the following statements is true? a. The WHEN clause of a CASE statement ends with a semicolon. b. The WHEN clause of a CASE statement ends with "END CASE;". c. The WHEN clause of a CASE expression does not end with a semicolon. d. The WHEN clause of a CASE statement ends with "ENDCASE". ANS: C PTS: 1 REF: 67 18. Which of the following allow us to repeat the processing of a desired portion of code? c. IF statements a. Functions d. CASE expressions b. Looping constructs ANS: B PTS: 1 REF: 69 19. The _____ uses the LOOP and END LOOP markers to begin and end the loop code. a. basic loop c. index-by table b. cursor d. general loop ANS: A PTS: 1 REF: 69 20. Which of the following code fragments would not raise an error? a. BEGIN LOOP DBMS_OUTPUT.PUT_LINE(lv_cnt_num); lv_cnt_num := lv_cnt_num + 1; END LOOP: END; b. BEGIN LOOP DBMS_OUTPUT.PUT_LINE(lv_cnt_num); EXIT WHEN lv cnt num ≥ 5 ; $lv_cnt_num := lv_cnt_num + 1;$ END; c. BEGIN LOOP DBMS_OUTPUT.PUT_LINE(lv_cnt_num); EXIT WHEN lv cnt num ≥ 5 ; $lv_cnt_num := lv_cnt_num + 1$ **END LOOP** END d. BEGIN LOOP DBMS_OUTPUT.PUT_LINE(lv_cnt_num); EXIT WHEN lv_cnt_num >= 5; lv_cnt_num := lv_cnt_num + 1; END LOOP; END; PTS: 1 ANS: D REF: 69

21. If the EXIT WHEN clause is not included in a basic loop, then the result is a(n)c. RAISE_APPLICATION_ERROR a. infinite loop b. exception d. SQLCODE error ANS: A PTS: 1 REF: 69 22. Which of the following clauses ensures that a basic loop runs at least once? a. EXIT WHEN c. CASE b. WHERE d. LOOP ANS: A PTS: 1 REF: 69 23. BEGIN LOOP DBMS OUTPUT.PUT LINE(lv cnt num); lv_cnt_num := lv_cnt_num + 1; EXIT WHEN lv_cnt_num >= 5; END LOOP; END; Which of the statements in the code fragment above ensures that the loop executes at least once? a. LOOP b. $lv_cnt_num := lv_cnt_num + 1;$ c. EXIT WHEN lv cnt num ≥ 5 ; d. DBMS_OUTPUT.PUT_LINE(lv_cnt_num); ANS: C PTS: 1 REF: 69 24. Which of the following code fragments would not raise an error? a. BEGIN WHILE lv cnt num ≤ 5 DBMS OUTPUT.PUT LINE(lv cnt num); lv_cnt_num := lv_cnt_num + 1; END LOOP; END; b. BEGIN WHILE lv cnt num ≤ 5 DBMS OUTPUT.PUT LINE(lv cnt num); lv_cnt_num := lv_cnt_num + 1; END; c. BEGIN WHILE lv_cnt_num <= 5 LOOP DBMS OUTPUT.PUT_LINE(lv_cnt_num); $lv_cnt_num := lv_cnt_num + 1;$ END LOOP; d. BEGIN WHILE lv_cnt_num <= 5 LOOP DBMS_OUTPUT.PUT_LINE(lv_cnt_num); $lv_cnt_num := lv_cnt_num + 1;$ END LOOP; END;

	AN	IS: D	PTS:	1	REF:	72			
25.	BEGIN WHILE lv_cnt_num <= 5 LOOP DBMS_OUTPUT.PUT_LINE(lv_cnt_num); lv_cnt_num := lv_cnt_num + 1; END LOOP; END;								
	Ace a. b.	3	e fragm	ent above, how	c.	times does the loop iterate? 5 6			
	AN	IS: C	PTS:	1	REF:	72			
26.		R i IN 1tbl_roast lv_tot_num := lv ID LOOP;);				
		tbl_roast	gment,	which of the fo	c.	g holds the value of the current iteration number? COUNT lv_tot_num			
	AN	IS: B	PTS:	1	REF:	73			
27.	cla a.	nich of the followi use? CASE WHILE loop	ng dicta	tes exactly how	c.	times the loop should run in the opening LOOP FOR loop Basic loop			
		IS: C	PTS:	1		*			
28.	Wh a.	nich of the followi BEGIN FOR i IN 1 DBMS_0 END LOOP; END;	ng code 10 LOC DUTPU	fragments wo	uld not				
	b.	BEGIN FOR i IN 1 DBMS_0 END LOOP END;)P T.PUT_LINE((c)				
	c.	BEGIN FOR i IN 1 DBMS_0 END LOOP; END;	OUTPU	T.PUT_LINE(í);				
	d.	BEGIN FOR i IN 1 DBMS_ END LOOP		P UT.PUT_LINE]				

END;

- 29. Which of the following can be referenced in the loop but cannot be assigned a value because it is controlled by the loop?
 - a. The counter variableb. The IN clausec. The INSERT INTO claused. The FOR clause
 - ANS: A PTS: 1 REF: 73
- 30. Which of the following code fragments is correct?
 a. FOR i IN 1..tbl.COUNT lv_tot_num := lv_tot_num + tbl_roast(i); END LOOP;
 - b. FOR i IN 1..tbl.COUNT LOOP lv_tot_num := lv_tot_num + tbl_roast(i) END LOOP
 - c. FOR i IN 1..tbl.COUNT LOOP
 lv_tot_num = lv_tot_num + tbl_roast(i);
 END LOOP;
 - d. FOR i IN 1..tbl.COUNT LOOP
 lv_tot_num := lv_tot_num + tbl_roast(i);
 END LOOP;

ANS: D PTS: 1 REF: 73

31. Why would the following code raise an error?

IF rec order.state = 'VA' THEN lv tax num := rec order.sub * .06; ELSEIF rec order.state = 'ME' THEN lv_tax_num := rec_order.sub * .05; ELSE lv tax num := rec order.sub * .04; END IF; a. Semicolon after THEN is omitted c. ELSEIF is not a keyword b. No space between ELSE and IF d. ":=" should be "=" ANS: C PTS: 1 REF: 56 32. IF rec order.state = 'VA' THEN lv tax num := rec order.sub * .06; ELSIF rec order.state = 'ME' THEN lv_tax_num := rec_order.sub * .05; ELSE lv_tax_num := rec_order.sub * .04; END IF;

Which of the clauses in the code fragment above would not cause the IF statement to raise an error if it were excluded?

a. ELSE b. IF		•••	END IF THEN
ANS: A	PTS: 1	REF:	54

COMPLETION

1. The _______ section of the PL/SQL block contains code that creates variables, cursors, and types.

ANS: DECLARE

PTS: 1 REF: 38

2. A(n) ______ variable can hold only a single value.

ANS: scalar

PTS: 1 REF: 39

ANS: Assignment

PTS: 1 REF: 41

4. The _______ section of a PL/SQL block contains handlers that allow you to control what the application will do if an error occurs during the executable statements in the BEGIN section.

ANS: EXCEPTION

PTS: 1 REF: 38

5. To declare a variable, you must supply a variable name and ______.

ANS: data type

PTS: 1 REF: 41

6. The code *order NUMBER*(2) := 6; is an example of a(n) _____.

ANS: assignment statement

PTS: 1 REF: 41

7. The ______ option can be added to the variable declaration to require the variable to always contain a particular value within the block.

ANS: CONSTANT

PTS: 1 REF: 48

8. The ______ statement is a mechanism that allows the checking of a condition to determine whether or not statements should be processed.

ANS: IF

PTS: 1 REF: 53

9. The simple IF statement performs an action only if the condition is ______.

ANS: TRUE

PTS: 1 REF: 53

10. A(n) _______ statement does not use a selector but individually evaluates conditions that are placed in the WHEN clauses.

ANS: Searched CASE

PTS: 1 REF: 66

11. ______ are used for situations in which we need to repeat a line or lines of code within our block.

ANS: Loops

PTS: 1 REF: 69

12. If the EXIT WHEN clause is not included in the basic loop, the result is the programmer's nightmare of a(n) ______.

ANS: infinite loop

PTS: 1 REF: 69

13. By indicating a numeric range, the ______ dictates exactly how many times the loop should run in the opening LOOP clause.

ANS: FOR loop

PTS: 1 REF: 73

14. The ______ loop is constructed with conditions in the LOOP statement to determine when the looping action begins and ends.

ANS: WHILE FOR

PTS: 1 REF: 72-73

ESSAY

1. What is the purpose of the BEGIN section of a PL/SQL block?

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ANS:

The BEGIN section is the heart of the PL/SQL block in that it contains all the processing action, or programming logic. SQL is used for database queries and data manipulation. Conditional logic, such as IF statements, is used to make decisions on what action to take. Loops are used to repeat code and assignment statements are used to put or change values in variables.

PTS: 1 REF: 38

2. What is the purpose of control structures?

ANS:

Control structures provide the capability to perform conditional logic to determine which statements should be run, how many times the statements should be run, and the overall sequence of events.

PTS: 1 REF: 53