

**Exam : Oracle 1z0-101**

**Title : develop pl/sql program units**

**Update : Demo**

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**1.Which two statements about packages are true? (Choose two.)**

- A.Packages can be nested.
- B.You can pass parameters to packages.
- C.A package is loaded into memory each time it is invoked.
- D.The contents of packages can be shared by many applications.
- E.You can achieve information hiding by making package constructs private.

**Correct:D E**

**2.Which code can you use to ensure that the salary is neither increased by more than 10% at a time nor is it ever decreased?**

- A.ALTER TABLE emp ADD CONSTRAINT ck\_sal CHECK (sal BETWEEN sal AND sal\*1.1);
- B.CREATE OR REPLACE TRIGGER check\_sal BEFORE UPDATE OF sal ON emp FOR EACH ROW WHEN (new.sal < old.sal OR new.sal > old.sal \* 1.1) BEGIN RAISE\_APPLICATION\_ERROR ( - 20508, 'Do not decrease salary nor increase by more than 10%'); END;
- C.CREATE OR REPLACE TRIGGER check\_sal BEFORE UPDATE OF sal ON emp WHEN (new.sal < old.sal OR new.sal > old.sal \* 1.1) BEGIN RAISE\_APPLICATION\_ERROR ( - 20508, 'Do not decrease salary nor increase by more than 10%'); END;
- D.CREATE OR REPLACE TRIGGER check\_sal AFTER UPDATE OF sal ON emp WHEN (new.sal < old.sal OR -new.sal > old.sal \* 1.1) BEGIN RAISE\_APPLICATION\_ERROR ( - 20508, 'Do not decrease salary nor increase by more than 10%'); END;

**Correct:B**

**3.The procedure ADD\_PRODUCT is defined within a package specification as follows: PROCEDURE ADD\_PRODUCT (p\_prodno NUMBER, p\_prodname VARCHAR2); Which procedure declaration cannot be added to the package specification?**

- A.PROCEDURE add\_product (p\_order\_date DATE);
- B.PROCEDURE add\_product (p\_name VARCHAR2, p\_ordered DATE);
- C.PROCEDURE add\_product (p\_prodname VARCHAR2, p\_price NUMBER);
- D.PROCEDURE add\_product (p\_price NUMBER, p\_description VARCHAR2);

**Correct:D**

**4.The programmer who developed a procedure ACCOUNT\_TRANSACTION left the organization. You are assigned the task of modifying this procedure. You want to find all the program units invoking the ACCOUNT\_TRANSACTION procedure. How can you find this information?**

- A.Query the USER\_SOURCE data dictionary view.
- B.Query the USER\_PROCEDURES data dictionary view.
- C.Query the USER\_DEPENDENCIES data dictionary view.
- D.Set the SQL\*Plus environment variable TRACECODE=TRUE and run the ACCOUNT\_TRANSACTION procedure.
- E.Set the SQL\*Plus environment variable DEPENDENCIES=TRUE and run the ACCOUNT\_TRANSACTION procedure.

**Correct:C**

**5.Which part of a database trigger determines the number of times the trigger body executes?**

- A.trigger type
- B.trigger body
- C.trigger event

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D.trigger timing

**Correct:A**

**6.Which compiler directive is used to check the purity level of functions?**

- A.PRAGMA PURITY\_LEVEL
- B.PRAGMA SERIALLY\_REUSEABLE
- C.PRAGMA RESTRICT\_REFERENCES
- D.PRAGMA RESTRICT\_PURITY\_LEVEL
- E.PRAGMA RESTRICT\_FUNCTION\_REFERENCE

**Correct:C**

**7.Which system privilege must you have to manually recompile a stored procedure owned by another application developer?**

- A.ALTER PROCEDURE
- B.ALTER ANY PROCEDURE
- C.ALTER ALL PROCEDURE
- D.COMPILE ANY PROCEDURE

**Correct:B**

**8.You are creating a stored procedure in the SQL\*Plus environment. The text of the procedure is stored in a script file. You run the script file to compile the procedure. What happens if the procedure contains syntax errors?**

- A.Neither the source code, nor the errors are stored in the database.
- B.Both the source code and the compilation errors are stored in the database.
- C.Compilation errors are appended to the script file that contains the source code.
- D.The source code is stored in the database, and the errors are stored in an output file.
- E.Only the compilation errors are written to the database, and source code remains in the script file.

**Correct:B**

**9.Which procedure of the dbms\_output supplied package would you use to append text to the current line of the output buffer?**

- A.GET
- B.GET\_LINE
- C.PUT\_TEXT\_LINE
- D.PUT

**Correct:D**

**10.The number of cascading triggers is limited by which database initialization parameter?**

- A.CASCADE\_TRIGGER\_CNT
- B.OPEN\_CURSORS
- C.OPEN\_TRIGGERS
- D.OPEN\_DB\_TRIGGERS

**Correct:B**

**11.Examine this function: CREATE OR REPLACE FUNCTION CALC\_PLAYER\_AVG (V\_ID in PLAYER\_BAT\_STAT.PLAYER\_ID%TYPE) RETURN NUMBER IS V\_AVG NUMBER; BEGIN SELECT HITS / AT\_BATS INTO V\_AVG FROM PLAYER\_BAT\_STAT WHERE PLAYER\_ID = V\_ID; RETURN (V\_AVG); END; Which statement will successfully invoke this function in SQL\*Plus?**

- A.SELECT CALC\_PLAYER\_AVG(PLAYER\_ID) FROM PLAYER\_BAT\_STAT;

- B.EXECUTE CALC\_PLAYER\_AVG(31);
- C.CALC\_PLAYER('Ruth');
- D.CALC\_PLAYER\_AVG(31);
- E.START CALC\_PLAYER\_AVG(31)

**Correct:A**

**12.Examine this package: CREATE OR REPLACE PACKAGE discounts IS g\_id NUMBER := 7839; discount\_rate NUMBER := 0.00; PROCEDURE display\_price (p\_price NUMBER); END discounts; / CREATE OR REPLACE PACKAGE BODY discounts IS PROCEDURE display\_price (p\_price NUMBER) IS BEGIN DBMS\_OUTPUT.PUT\_LINE('Discounted '|| TO\_CHAR(p\_price\*NVL(discount\_rate, 1))); END display\_price; BEGIN discount\_rate := 0.10; END discounts; / The SQL\*Plus SERVEROUTPUT setting is turned on in your session. You execute the procedure DISPLAY\_PRICE from SQL\*Plus with the command: EXECUTE discounts.display\_price (100); What is the result?**

- A.Discounted 10
- B.Discounted 100
- C.Discounted 0.00
- D.Discounted NULL
- E.Discounted 0.10E.Discounted 0.10

**Correct:A**

**13.You have created a stored procedure DELETE\_TEMP\_TABLE that uses dynamic SQL to remove a table in your schema. You have granted the EXECUTE privilege to user A on this procedure. When user A executes the DELETE\_TEMP\_TABLE procedure, under whose privileges are the operations performed by default?**

- A.SYS privileges
- B.your privileges
- C.public privileges
- D.user A's privileges
- E.User A cannot execute your procedure that has dynamic SQL.

**Correct:B**

**14.When creating procedures, arguments should be placed before which keyword?**

- A.IS
- B.BEGIN
- C.DECLARE
- D.PROCEDURE

**Correct:A**

**15.You need to recompile several program units you have recently modified through a PL/SQL program. Which statement is true?**

- A.You cannot recompile program units using a PL/SQL program.
- B.You can use the DBMS\_DDL.RECOMPILE packaged procedure to recompile the program units.
- C.You can use the DBMS\_ALTER.COMPILE packaged procedure to recompile the program units.
- D.You can use the DBMS\_DDL.ALTER\_COMPILE packaged procedure to recompile the program units.
- E.You can use the DBMS\_SQL.ALTER\_COMPILE packaged procedure to recompile the program units.

**Correct:D**

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**16. Which two statements are true? (Choose two.)**

- A. A function must return a value.
- B. A procedure must return a value.
- C. A function executes as a PL/SQL statement.
- D. A function is invoked as part of an expression.
- E. A procedure must have a return data type specified in its declaration.

**Correct: A D**

**17. The add\_player, upd\_player\_stat, and upd\_pitcher\_stat procedures are grouped together in a package. A variable must be shared among only these procedures. Where should you declare this variable?**

- A. in the package body
- B. in a database trigger
- C. in the package specification
- D. in each procedure's DECLARE section, using the exact same name in each

**Correct: A**

**18. There is a CUSTOMER table in a schema that has a public synonym CUSTOMER and you are granted all object privileges on it. You have a procedure PROCESS\_CUSTOMER that processes customer information that is in the public synonym CUSTOMER table. You have just created a new table called CUSTOMER within your schema. Which statement is true?**

- A. Creating the table has no effect and procedure PROCESS\_CUSTOMER still accesses data from public synonym CUSTOMER table.
- B. If the structure of your CUSTOMER table is the same as the public synonym CUSTOMER table then the procedure PROCESS\_CUSTOMER is invalidated and gives compilation errors.
- C. If the structure of your CUSTOMER table is entirely different from the public synonym CUSTOMER table then the procedure PROCESS\_CUSTOMER successfully recompiles and accesses your CUSTOMER table.
- D. If the structure of your CUSTOMER table is the same as the public synonym CUSTOMER table then the procedure PROCESS\_CUSTOMER successfully recompiles when invoked and accesses your CUSTOMER table.

**Correct: D**

**19. Under which situation do you create a server-side procedure?**

- A. when the procedure contains no SQL statements
- B. when the procedure contains no PL/SQL commands
- C. when the procedure needs to be used by many client applications accessing several remote databases
- D. when the procedure needs to be used by many users accessing the same schema objects on a local database

**Correct: D**

**20. Which two programming constructs can be grouped within a package? (Choose two.)**

- A. cursor
- B. constant
- C. trigger
- D. sequence
- E. view

**Correct:A B**

21.Examine this procedure: **CREATE OR REPLACE PROCEDURE INSERT\_TEAM (V\_ID in NUMBER, V\_CITY in VARCHAR2 DEFAULT 'AUSTIN', V\_NAME in VARCHAR2) IS BEGIN INSERT INTO TEAM (id, city, name) VALUES (v\_id, v\_city, v\_name); COMMIT; END;** Which two statements will successfully invoke this procedure in SQL\*Plus? (Choose two.)

- A.EXECUTE INSERT\_TEAM;
- B.EXECUTE INSERT\_TEAM(3, V\_NAME=>'LONGHORNS', V\_CITY=>'AUSTIN');
- C.EXECUTE INSERT\_TEAM(3,'AUSTIN','LONGHORNS');
- D.EXECUTE INSERT\_TEAM (V\_ID := 3, V\_NAME := 'LONGHORNS', V\_CITY := 'AUSTIN');
- E.EXECUTE INSERT\_TEAM (3,'LONGHORNS');

**Correct:B C**

22.Examine this package: **CREATE OR REPLACE PACKAGE compile\_this IS g\_value VARCHAR2(100); PROCEDURE a; PROCEDURE b; END compile\_this; / CREATE OR REPLACE PACKAGE BODY compile\_this IS PROCEDURE a IS BEGIN g\_value := 'Hello World'; END a; PROCEDURE b IS BEGIN c; DBMS\_OUTPUT.PUT\_LINE ('Procedure b calling c.');** END b; **PROCEDURE c IS BEGIN b; DBMS\_OUTPUT.PUT\_LINE ('Procedure c calling b.');** END; **END compile\_this; / PROCEDURE C is a local construct to the package.** What happens when this package is compiled?

- A.It produces the output: Procedure b calling c.
- B.It produces the output:B.It produces the output: Procedure c calling b.
- C.It produces a compilation error because PROCEDURE C requires a forward declaration.
- D.It produces a compilation error because PROCEDURE B requires a forward declaration.
- E.It produces a compilation error because identifier G\_VALUE is not declared in PROCEDURE A.

**Correct:C**

23.Examine the trigger: **CREATE OR REPLACE TRIGGER Emp\_count AFTER DELETE ON Emp\_tab FOR EACH ROW DECLARE n INTEGER; BEGIN SELECT COUNT(\*) INTO n FROM Emp\_tab; DBMS\_OUTPUT.PUT\_LINE(' There are now ' || n || 'employees.');** END; This trigger results in an error after this SQL statement is entered: **DELETE FROM Emp\_tab WHERE Empno = 7499;** How do you correct the error?

- A.Change the trigger type to a BEFORE DELETE.
- B.Take out the COUNT function because it is not allowed in a trigger.
- C.Remove the DBMS\_OUPUT statement because it is not allowed in a trigger.
- D.Change the trigger to a statement-level trigger by removing FOR EACH ROW.

**Correct:D**

24.Examine this package: **CREATE OR REPLACE PACKAGE BB\_PACK IS V\_MAX\_TEAM\_SALARY NUMBER(12,2); PROCEDURE ADD\_PLAYER(V\_ID IN NUMBER, V\_LAST\_NAME VARCHAR2, V\_SALARY NUMBER); END BB\_PACK; / CREATE OR REPLACE PACKAGE BODY BB\_PACK IS PROCEDURE UPD\_PLAYER\_STAT (V\_ID IN NUMBER, V\_AB IN NUMBER DEFAULT 4, V\_HITS IN NUMBER) IS BEGIN UPDATE PLAYER\_BAT\_STAT SET AT\_BATS = AT\_BATS + V\_AB, HITS = HITS + V\_HITS WHERE PLAYER\_ID = V\_ID; COMMIT; END UPD\_PLAYER\_STAT; PROCEDURE ADD\_PLAYER (V\_ID IN NUMBER, V\_LAST\_NAME VARCHAR2, V\_SALARY NUMBER) IS BEGIN INSERT INTO PLAYER(ID, LAST\_NAME, SALARY) VALUES (V\_ID, V\_LAST\_NAME, V\_SALARY); UPD\_PLAYER\_STAT(V\_ID,0,0); END ADD\_PLAYER; END BB\_PACK;** You have made a change to

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the body of the BB\_PACK package. What happens when the stand alone procedure VALIDATE\_PLAYER\_STAT references this package?

- A.VALIDATE\_PLAYER\_STAT cannot recompile and must be recreated.
- B.VALIDATE\_PLAYER\_STAT is not invalidated.
- C.VALIDATE\_PLAYER\_STAT is invalidated.
- D.VALIDATE\_PLAYER\_STAT and BB\_PACK are invalidated.

**Correct:B**

25.Examine this package: CREATE OR REPLACE PACKAGE manage\_emps IS tax\_rate CONSTANT NUMBER(5,2) := .28; v\_id NUMBER; PROCEDURE insert\_emp (p\_deptno NUMBER, p\_sal NUMBER); PROCEDURE delete\_emp; PROCEDURE update\_emp; FUNCTION calc\_tax (p\_sal NUMBER) RETURN NUMBER; END manage\_emps; / CREATE OR REPLACE PACKAGE BODY manage\_emps IS PROCEDURE update\_sal (p\_raise\_amt NUMBER) IS BEGIN UPDATE emp SET sal = (sal \* p\_raise\_amt) + sal WHERE empno = v\_id; END; PROCEDURE insert\_emp (p\_deptno NUMBER, p\_sal NUMBER) IS BEGIN INSERT INTO emp(empno, deptno, sal) VALUES(v\_id, p\_deptno, p\_sal); END insert\_emp; PROCEDURE delete\_emp IS BEGIN DELETE FROM emp WHERE empno = v\_id; END delete\_emp; PROCEDURE update\_emp IS v\_sal NUMBER(10, 2); v\_raise NUMBER(10, 2); BEGIN SELECT sal INTO v\_sal FROM emp WHERE empno = v\_id; IF v\_sal < 500 THEN v\_raise := .05; ELSIF v\_sal < 1000 THEN v\_raise := .07; ELSE v\_raise := .04; END IF; update\_sal(v\_raise); END update\_emp; FUNCTION calc\_tax (p\_sal NUMBER) RETURN NUMBER IS BEGIN RETURN p\_sal \* tax\_rate; END calc\_tax; END manage\_emps; / How many public procedures are in the MANAGE\_EMPS package?

- A.one
- B.two
- C.three
- D.four
- E.five
- F.none

**Correct:C**

26.When creating procedures, local variables should be placed after which key word?

- A.IS
- B.BEGIN
- C.DECLARE
- D.PROCEDURE

**Correct:A**

27.You have a row level BEFORE UPDATE trigger on the EMP table. This trigger contains a SELECT statement on the EMP table to ensure that the new salary value falls within the minimum and maximum salary for a given job title. What happens when you try to update a salary value in the EMP table?

- A.The trigger fires successfully.
- B.The trigger fails because it needs to be a row level AFTER UPDATE trigger.
- C.The trigger fails because a SELECT statement on the table being updated is not allowed.
- D.The trigger fails because you cannot use the minimum and maximum functions in a BEFORE UPDATE trigger.

**Correct:C**

28.Examine this package: `CREATE OR REPLACE PACKAGE BB_PACK IS V_MAX_TEAM_SALARY NUMBER(12,2); PROCEDURE ADD_PLAYER(V_ID IN NUMBER, V_LAST_NAME VARCHAR2, V_SALARY NUMBER); END BB_PACK; / CREATE OR REPLACE PACKAGE BODY BB_PACK IS V_PLAYER_AVG NUMBER(4,3); PROCEDURE UPD_PLAYER_STAT (V_ID IN NUMBER, V_AB IN NUMBER DEFAULT 4, V_HITS IN NUMBER) IS BEGIN UPDATE PLAYER_BAT_STAT SET AT_BATS = AT_BATS + V_AB, HITS = HITS + V_HITS WHERE PLAYER_ID = V_ID; COMMIT; VALIDATE_PLAYER_STAT(V_ID); END UPD_PLAYER_STAT; PROCEDURE ADD_PLAYER (V_ID IN NUMBER, V_LAST_NAME VARCHAR2, V_SALARY NUMBER) IS BEGIN INSERT INTO PLAYER(ID, LAST_NAME, SALARY) VALUES (V_ID, V_LAST_NAME, V_SALARY); UPD_PLAYER_STAT(V_ID,0,0); END ADD_PLAYER; END BB_PACK;` An outside procedure `VALIDATE_PLAYER_STAT` is executed from this package. What will happen when this outside procedure changes?

- A.The package specification is dropped.
- B.The package specification is invalidated.
- C.The package is invalidated.
- D.The package body is invalidated.

**Correct:D**

29.All users currently have the `INSERT` privilege to the `PLAYER` table. You only want your users to insert into this table using the `ADD_PLAYER` procedure. Which two actions must you take? (Choose two.)

- A.GRANT SELECT ON `ADD_PLAYER` TO PUBLIC;
- B.GRANT EXECUTE ON `ADD_PLAYER` TO PUBLIC;
- C.GRANT INSERT ON `PLAYER` TO PUBLIC;
- D.GRANT EXECUTE, INSERT ON `ADD_PLAYER` TO PUBLIC;
- E.REVOKE INSERT ON `PLAYER` FROM PUBLIC;

**Correct:B E**

30.Which two statements about packages are true? (Choose two.)

- A.Both the specification and body are required components of a package.
- B.The package specification is optional, but the package body is required.
- C.The package specification is required, but the package body is optional.
- D.The specification and body of the package are stored together in the database.
- E.The specification and body of the package are stored separately in the database.

**Correct:C E**