

7-2: Trapping Oracle Server Exceptions

Vocabulary

1. predefined Oracle server errors
2. PRAGMA EXCEPTION_INIT
3. SQLERRM
4. non-predefined Oracle server errors
5. SQLCODE

Try It / Solve It

1. redefined Oracle server error

non-predefined Oracle server error

user-defined error

2. predefined Oracle server error - you don't need to declare these exceptions; they are predefined by the Oracle server and are raised implicitly

non-predefined Oracle server error - declare within the declarative section and allow the Oracle server to raise them implicitly

user-defined error - declare within the declarative section, and raise explicitly

3. A. ORA-01476: divisor is equal to zero

impartire la 0

B. DECLARE

v_number NUMBER(6, 2) := 100;

v_region_id regions.region_id%TYPE;

v_region_name regions.region_name%TYPE;

BEGIN

SELECT region_id, region_name INTO v_region_id, v_region_name

FROM regions

WHERE region_id = 1;

DBMS_OUTPUT.PUT_LINE('Region: ' || v_region_id || ' is: ' || v_region_name);

v_number := v_number / 0;

EXCEPTION

WHEN ZERO_DIVIDE THEN DBMS_OUTPUT.PUT_LINE('Impartire la 0');

END;

Region: 1 is: Europe

Impartire la 0

C.ORA-01403: no data found

D.WHEN NO_DATA_FOUND THEN DBMS_OUTPUT.PUT_LINE('No data found');

4.A.ORA-01001: invalid cursor

B.EXCEPTION

WHEN INVALID_CURSOR THEN DBMS_OUTPUT.PUT_LINE('Cursor invalid');

ORA-00900: invalid SQL statement

C.OPEN regions_curs;

Region: 1 Name: Europe

Region: 2 Name: Americas

Region: 3 Name: Asia

Region: 4 Name: Middle East and Africa

The number of regions is: 1

Statement processed.

5.

A.EXCEPTION

WHEN NO_DATA_FOUND THEN DBMS_OUTPUT.PUT_LINE('No data found');

WHEN TOO_MANY_ROWS THEN

DBMS_OUTPUT.PUT_LINE('Too many rows');

WHEN DUP_VAL_ON_INDEX THEN

DBMS_OUTPUT.PUT_LINE('Dup val on index');

B.ba-Too many rows

ce-no data found

al-ORA-01400: cannot insert NULL into ("PULA"."WF_LANGUAGES"."LANGUAGE_NAME")

C.e_null_not_allowed EXCEPTION;

PRAGMA EXCEPTION_INIT(e_null_not_allowed,-01400);

WHEN e_null_not_allowed THEN

DBMS_OUTPUT.PUT_LINE('nul value');

Extension Exercise

1.EXCEPTION

WHEN OTHERS THEN

V_CODE:=SQLCODE;

v_error:=SQLERRM;

INSERT INTO error_log VALUES(user,SYSDATE,V_CODE,v_error);