

# 7-1: Handling Exceptions

## Vocabulary

1.exception handler

2.exception

## Try It / Solve It

1.an exception occurs

2.an exception handler, to address these errors

3.protects the user from errors

protects the database from errors;data can be lost or overwritten

major errors take a lot of system resources

4.A.ORA-01422: exact fetch returns more than requested number of rows

write an exception handler

B.DECLARE

v\_jobid employees.job\_id%TYPE;

BEGIN

SELECT job\_id INTO v\_jobid

FROM employees

WHERE department\_id = 80;

EXCEPTION

WHEN TOO\_MANY\_ROWS THEN DBMS\_OUTPUT.PUT\_LINE('Prea multe linii returnate');

END

C.merge

5.An exception has occurred.

Statement processed.

probabil ca deja exista dept 50 in baza de date

6.DELETE FROM emp\_temp WHERE employee\_id =200;

10-exception

20-exception

30-exception

7.DECLARE

v\_employee\_id emp\_temp.employee\_id%TYPE;

v\_last\_name emp\_temp.last\_name%TYPE;

BEGIN

SELECT employee\_id, last\_name INTO v\_employee\_id, v\_last\_name

FROM emp\_temp

WHERE department\_id = 10; -- run with values 10, 20, and 30

DBMS\_OUTPUT.PUT\_LINE('The SELECT was successful');

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');

END;

10- no data found

20-too many rows

30-no data found

8.always add exception handlers whenever there is a possibility of an error occurring

learn the names and causes of the predefined exceptions

test your code with different combinations of bad data to see what potential errors arise

9.9999 nu incapa in NUMBER(2)

10.DECLARE

v\_number NUMBER(2);

BEGIN

```
v_number := 9999;
```

```
END;
```

ORA-06502: PL/SQL: numeric or value error: number precision too large

```
DECLARE
```

```
v_number  NUMBER(4);
```

```
BEGIN
```

```
v_number := 9999;
```

```
EXCEPTION
```

```
WHEN OTHERS THEN  DBMS_OUTPUT.PUT_LINE('An exception has occurred');
```

```
END;
```

11.v\_number nu poate interpreta un sir de caractere ca NUMBER(4)