

### PL SQL error handling

exception propagates outward to each successive block, until properly handled or presented to client finally

EXCEPTION without it, error present to client

WHEN exception\_name trap an exception

THEN ... handle an exception

RAISE raise the current exception

### Types of Exception

Named System Exceptions

Unnamed System Exceptions

User-defined Exceptions

### Named System Exceptions

NO\_DATA\_FOUND SELECT...INTO with no returned

ZERO\_DIVIDE

TOO\_MANY\_ROWS fetch > 1 row into a record/var

INVALID\_CURSOR cursor closed

### Unnamed system exceptions

WHEN OTHERS OTHERS handler used  
THEN

to handle exception\_name  
explicitly EXCEPTION;

PRAGMA EXCEPTION\_INIT(exception\_name, Err\_code);

### User defined exception

my\_exception raise my\_exception;  
EXCEPTION;

pragma exception\_init(my\_exception, -20001); assign error code

RAISE\_APPLICATION\_ERROR(code, msg); assign a user friendly message

WHEN my\_exception trap and handle  
THEN

Explicitly declared in declaration, raised in execution section and handled in Exception section

### raise\_application\_error(code, msg)

predefined oracle procedure for user raise error with code and message

1) error code range(-20,000 ~ -20,999)  
required)

2) message varchar2(2000)

3) boolean: default true: adds the error to the current stack  
false-added to top of list

from DBMS\_STANDARD, no name provided, handled with OTHERS handler.  
Uncommitted session tx rollback

### raise\_application\_error with handler

```
DECLARE
    n_salary NUMBER;
    sal_high EXCEPTION;
    pragma exception_init(sal_high, -20001);
BEGIN
    SELECT salary INTO n_salary
    FROM employees
    WHERE employee_id=:employee_id;
    IF n_salary > 10000 THEN
        raise_application_error
            (-20001, 'Salary is high');
    END IF;
EXCEPTION
    WHEN sal_high THEN
        dbms_output.put_line(SQLCODE);
        dbms_output.put_line(sqlerrm);
END;

raise; //raise current error
```



By **Jianmin Feng** (taotao)  
[cheatography.com/taotao/](http://cheatography.com/taotao/)

Not published yet.  
Last updated 11th April, 2019.  
Page 1 of 1.

Sponsored by **CrosswordCheats.com**  
Learn to solve cryptic crosswords!  
<http://crosswordcheats.com>