

18CSC303J/ DBMS

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Exp-12: PL/SQL – Exception Handling

Aim:- To study the PL/SQL Exception Handling commands on the database.

Execution:-

SQL*Plus: Release 11.2.0.4.0 Production on Wed Mar 30 15:34:21 2022

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Enter user-name: RA1911003010367/RA1911003010367@35.174.252.208:1521/orcl

Connected to:

Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production

SQL> spool exp12.lst

SQL> CREATE TABLE customers (C_ID VARCHAR(2), C_NAME VARCHAR(20), C_AGE INT, C_ADDRESS VARCHAR(20), C_SALARY FLOAT);

Table created.

SQL> INSERT INTO customers VALUES('C1', 'KIM', 27, 'SEOUL', 6500);

1 row created.

SQL> INSERT INTO customers VALUES('C2', 'MIN', 28, 'DAEGU', 8500);

1 row created.

SQL> INSERT INTO customers VALUES('C3', 'PARK', 26, 'BUSAN', 4500);

1 row created.

SQL> INSERT INTO customers VALUES('C4', 'JUNG', 29, 'BUSAN', 5500);

1 row created.

SQL> INSERT INTO customers VALUES('C5', 'JEON', 25, 'GANGNAM', 7500);

1 row created.

SQL> Select * from customers;

C_ C_NAME	C_AGE C_ADDRESS	C_SALARY
C1 KIM	27 SEOUL	6500
C2 MIN	28 DAEGU	8500
C3 PARK	26 BUSAN	4500
C4 JUNG	29 BUSAN	5500
C5 JEON	25 GANGNAM	7500

```

SQL> DECLARE
2  c_id customers.id%type := 8;
3  c_name customerS.Name%type;
4  c_addr customers.address%type;
5 BEGIN
6  SELECT name, address INTO c_name, c_addr
7  FROM customers
8  WHERE id = c_id;
9  DBMS_OUTPUT.PUT_LINE ('Name: ' || c_name);
10 DBMS_OUTPUT.PUT_LINE ('Name: ' || c_name);
11 ;
12 /
;
*
```

ERROR at line 11:

ORA-06550: line 11, column 1:

PLS-00103: Encountered the symbol ";" when expecting one of the following:

(begin case declare end exception exit for goto if loop mod
null pragma raise return select update while with
<an identifier> <a double-quoted delimited-identifier>
<a bind variable> << continue close current delete fetch lock
insert open rollback savepoint set sql execute commit forall
merge pipe purge json_exists json_value json_query
json_object json_array

The symbol "end" was substituted for ";" to continu

```

SQL> DECLARE
2  C_ID customers.id%type := 8;
3  C_NAME customerS.Name%type;
4  C_ADDRESS customers.address%type;
5 BEGIN
6  SELECT name, address INTO C_NAME, C_ADDRESS
7  FROM customers
8  WHERE id = C_ID;
9  DBMS_OUTPUT.PUT_LINE ('Name: ' || C_NAME);
10 DBMS_OUTPUT.PUT_LINE ('Address: ' || C_ADDRESS);
11
12 EXCEPTION
13  WHEN no_data_found THEN
14    dbms_output.put_line('No such customer!');
15  WHEN others THEN
16    dbms_output.put_line('Error!');
17 END;
18 /
```

```
C_ID customers.id%type := 8;
```

```
*
```

ERROR at line 2:

ORA-06550: line 2, column 19:

PLS-00302: component 'ID' must be declared

ORA-06550: line 0, column 0:

PL/SQL: Compilation unit analysis terminated

SQL> DECLARE

```
2  c_id customers.C_ID%type := 8;
3  c_name customerS.C_NAME%type;
4  c_addr customers.C_ADDRESS%type;
5 BEGIN
6  SELECT name, address INTO c_name, c_addr
7  FROM customers
8  WHERE C_ID = c_id;
9  DBMS_OUTPUT.PUT_LINE ('Name: ' || c_name);
10 DBMS_OUTPUT.PUT_LINE ('Address: ' || c_addr);
11
12 EXCEPTION
13  WHEN no_data_found THEN
14    dbms_output.put_line('No such customer!');
15  WHEN others THEN
16    dbms_output.put_line('Error!');
17 END;
18 /
SELECT name, address INTO c_name, c_addr
*
```

ERROR at line 6:

ORA-06550: line 6, column 18:

PL/SQL: ORA-00904: "ADDRESS": invalid identifier

ORA-06550: line 6, column 4:

PL/SQL: SQL Statement ignored

SQL> DECLARE

```
2  c_id customers.C_ID%type := 8;
3  c_name customerS.C_NAME%type;
4  c_addr customers.C_ADDRESS%type;
5 BEGIN
6  SELECT C_NAME, C_ADDRESS INTO c_name, c_addr
7  FROM customers
8  WHERE C_ID = c_id;
9  DBMS_OUTPUT.PUT_LINE ('Name: ' || c_name);
10 DBMS_OUTPUT.PUT_LINE ('Address: ' || c_addr);
```

```

11
12 EXCEPTION
13 WHEN no_data_found THEN
14     dbms_output.put_line('No such customer!');
15 WHEN others THEN
16     dbms_output.put_line('Error!');
17 END;
18 /

```

Error!

PL/SQL procedure successfully completed.

SQL> spool off

SQL> edit exp12.lst

SQL>

```

SQL> DECLARE
2   c_id customers.id%type := 8;
3   c_name customerS.Name%type;
4   c_addr customers.address%type;
5 BEGIN
6   SELECT name, address INTO c_name, c_addr
7   FROM customers
8   WHERE id = c_id;
9   DBMS_OUTPUT.PUT_LINE ('Name: ' || c_name);
10  DBMS_OUTPUT.PUT_LINE ('Name: ' || c_name);
11 ;
12 /
;
*
ERROR at line 11:
ORA-06550: line 11, column 1:
PLS-00103: Encountered the symbol ";" when expecting one of the following:
( begin case declare end exception exit for goto if loop mod
null pragma raise return select update while with
<an identifier> <a double-quoted delimited-identifier>
<a bind variable> << continue close current delete fetch lock
insert open rollback savepoint set sql execute commit forall
merge pipe purge json_exists json_value json_query
json_object json_array
The symbol "end" was substituted for ";" to continu

```

E:\SRM Sem-all\Sem-6\Database Management\Lab\ORACLE CLIENT 11.2\instantclient_11.2\sqlplus.exe

```

SQL> DECLARE
2   C_ID customers.id%type := 8;
3   C_NAME customerS.Name%type;
4   C_ADDRESS customers.address%type;
5 BEGIN
6   SELECT name, address INTO C_NAME, C_ADDRESS
7   FROM customers
8   WHERE id = C_ID;
9   DBMS_OUTPUT.PUT_LINE ('Name: ' || C_NAME);
10  DBMS_OUTPUT.PUT_LINE ('Address: ' || C_ADDRESS);
11
12 EXCEPTION
13 WHEN no_data_found THEN
14     dbms_output.put_line('No such customer!');
15 WHEN others THEN
16     dbms_output.put_line('Error!');
17 END;
18 /
C_ID customers.id%type := 8;
*
ERROR at line 2:
ORA-06550: line 2, column 19:
PLS-00302: component 'ID' must be declared
ORA-06550: line 0, column 0:
PL/SQL: Compilation unit analysis terminated

```

```
E:\SRM Sem-all\Sem-6\Database Management\Lab\ORACLE CLIENT 11.2\instantclient_11_2\sqlplus.exe

SQL> DECLARE
2   c_id customers.C_ID%type := 8;
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4   c_addr customers.C_ADDRESS%type;
5 BEGIN
6   SELECT name, address INTO c_name, c_addr
7   FROM customers
8   WHERE C_ID = c_id;
9   DBMS_OUTPUT.PUT_LINE ('Name: ' || c_name);
10  DBMS_OUTPUT.PUT_LINE ('Address: ' || c_addr);
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13  WHEN no_data_found THEN
14    dbms_output.put_line('No such customer!');
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17 END;
18 /
SELECT name, address INTO c_name, c_addr
*
```

ERROR at line 6:
ORA-06550: line 6, column 18:
PL/SQL: ORA-00904: "ADDRESS": invalid identifier
ORA-06550: line 6, column 4:
PL/SQL: SQL Statement ignored

```
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SQL> DECLARE
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4   c_addr customers.C_ADDRESS%type;
5 BEGIN
6   SELECT C_NAME, C_ADDRESS INTO c_name, c_addr
7   FROM customers
8   WHERE C_ID = c_id;
9   DBMS_OUTPUT.PUT_LINE ('Name: ' || c_name);
10  DBMS_OUTPUT.PUT_LINE ('Address: ' || c_addr);
11
12 EXCEPTION
13  WHEN no_data_found THEN
14    dbms_output.put_line('No such customer!');
15  WHEN others THEN
16    dbms_output.put_line('Error!');
17 END;
18 /
Error!

PL/SQL procedure successfully completed.

SQL> spool off
SQL> edit exp10.lst
SQL>
```

Result:- Thus the PL/SQL Exception Handling have been executed successfully.