

Hello, my name is Annur.

Today I want to introduce you with the part of our project with exception. And to show you operations with exceptions I use our table users.

USER_ID	USER_NAME	USER_EMAIL	USER_GENDER	USER_PHONE	USER_ADDRESS
1	Harnett	sharnett0@msu.edu	Male	666-842-4046	67 Summerview Circle
2	Brearty	jbrearty1@google.com.br	Female	975-960-1942	5111 Crescent Oaks Park
3	Grigoletti	kgrigoletti2@columbia.edu	Male	392-349-1689	6406 Forest Run Trail
4	Maylour	smaylour3@simplemachines.org	Female	879-344-2661	73 Sloan Circle
5	Hemstead	lhemstead4@eepurl.com	Female	539-591-0559	67864 Maywood Terrace
6	Nancarrow	anancarrow5@canalblog.com	Male	701-102-7207	4 Harbort Point
7	Craydon	dcraydon6@sciencedirect.com	Female	431-154-8520	0 Gale Plaza
8	Markwick	nmarkwick7@google.com.au	Male	102-218-1977	48 Golf View Parkway
9	Beardsworth	cbeardsworth8@chronoengine.com	Female	247-141-1477	4 Muir Park
10	Marritt	vmarritt9@flickr.com	Female	628-797-7920	60162 Nova Crossing

In the first code, we need to check if the name exist in our database or not

```
1  DECLARE
2      u_name users.user_name%TYPE := 'Craydonasdfasd';
3      u_id users.user_id%TYPE;
4      user_not_found EXCEPTION;
5  BEGIN
6      SELECT id INTO u_id FROM users WHERE user_name = u_name;
7      IF u_id IS NULL THEN
8          RAISE user_not_found;
9      ELSE
10         DBMS_OUTPUT.PUT_LINE('successfully find user');
11     END IF;
12 EXCEPTION
13     WHEN user_not_found THEN
14         DBMS_OUTPUT.PUT_LINE('Student with name ' || u_name || ' not found.');
```

if the username is in our table, then we display the inscription “successfully find user” on the screen

```
successfully find user
```

If we do not find the corresponding user in our database, then we output an exception

```
ORA-01403: no data found
ORA-06512: at line 6
ORA-06512: at "SYS.DBMS_SQL", line 1721
```

In the second code, I check whether all users have the correct data. Valid data is considered if the email has the character '@' and if the size of the cell phone is 12 characters.

```
20 DECLARE
21     u_name users.user_name%TYPE;
22     u_phone users.user_phone%TYPE;
23     u_email users.user_email%TYPE;
24     user_not_found EXCEPTION;
25 BEGIN
26     FOR user_rec IN (SELECT * FROM users) LOOP
27         u_name := user_rec.user_name;
28         u_email := user_rec.user_email;
29         u_phone := user_rec.user_phone;
30         IF LENGTH(u_phone) <> 12 AND INSTR(u_email, '@') <= 0 THEN
31             RAISE user_not_found;
32         END IF;
33     END LOOP;
34     DBMS_OUTPUT.PUT_LINE('All users information is right');
35 EXCEPTION
36     WHEN user_not_found THEN
37         DBMS_OUTPUT.PUT_LINE('User with name ' || u_name || ' has invalid information');
38 END;
```

If all users have the correct data, then we display the message 'all users information is right'.

```
All users information is right
```

```
Statement processed.
```

When a user is found with incorrect data, we display the inscription

‘User with name ‘ + name with invalid data + ’ has invalid information’

```
User with name Harnett has invalid information
```

```
Statement processed.
```