**Objective:** The objective of this lab is to become more familiar with the CREATE TYPE AS OBJECT statement.

#### **Instructions:**

Step 1: Create a type as object of your choosing with at least 4 attributes and one member function.

Step 2: Create a table that contains that object type.

Step 3: Insert some values into the table.

Step 4: Retrieve some values from the table and use the member function.\

# Synopsis:

Our object () has 4 attributes; and as member function which returns the formatted email in a custom string format to store the data of any incoming employees to an organization.

**Step 1:** Create a type as object of your choosing with at least 4 attributes and one member function.

## Screenshot 1:

```
Connected to:
Oracle Database 21c Express Edition Release 21.0.0.0.0 - Production
Version 21.3.0.0.0

SQL> CREATE TYPE FormatEmail AS OBJECT (
2 FirstName VARCHAR(20),
3 LastName VARCHAR(20),
4 Role VARCHAR(20),
5 Officelocation VARCHAR(25),
6 MEMBER FUNCTION FormattedEmail RETURN VARCHAR
7 );
8 /

Type created.

SQL>
```

### Screenshot 2:

**Step 2:** Create a table that contains that object type.

### Screenshot 3:

```
SQL> CREATE TABLE Employeee (
2 EmpNo INT,
3 Email FormatEmail
4 );
Table created.

SQL> _
```

Step 3: Insert some values into the table.

## Screenshot 4:

```
SQL> INSERT INTO Employeee
2 VALUES (1, FormatEmail('virat', 'kohli', 'it', 'tor'));

1 row created.

SQL> INSERT INTO Employeee
2 VALUES (2, FormatEmail('rohit', 'sharma', 'hr', 'ptbo'));

1 row created.

SQL> INSERT INTO Employeee
2 VALUES (3, FormatEmail('rishabh', 'pant', 'it', 'bc'));

1 row created.

SQL> INSERT INTO Employeee
2 VALUES (3, FormatEmail('rishabh', 'pant', 'it', 'bc'));

1 row created.

SQL> INSERT INTO Employeee
2 VALUES (4, FormatEmail('ms', 'dhoni', 'sales', 'tor'));
```

**Step 4:** Retrieve some values from the table and use the member function.

#### Screenshot 5:

In this manner, we have been able to store the email addresses of four new employees each joining the organization using **FormatEmail** as an object with four attributes and one member function **FormattedEmail()**.

### Attribution:

These assignments were completed by **Ravi Chandan Pandi**, and they represent his original work completed for academic purposes during his studies and self-learning purposes.

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