Assignment A6
Problem Statement:
Write a PL/SQL block of code using parameterized Cursor, that will merge the data
available in the newly created table N_EmpId with the data available in the table
O_EmpId. If the data in the first table already exist in the second table then that
data should be skipped.
Learning Objective:
1. To understand and implement types of cursors with PL/SQL block code.
Learning Outcomes: The student will be able to implement:
1. Implement PL/SQL block code.
2. Implement types of curssors
Hardware and software requirements:
PL/SQL, Linux based OS
Theory:
CURSORS:
A cursor is a temporary work area created in the system memory when a SQL
statement is executed. A cursor contains information on a select statement and the
rows of data accessed by it. This temporary work area is used to store the data
retrieved from the database, and manipulate this data. A cursor can hold more than
one row, but can process only one row at a time. The set of rows the cursor holds is
called the active set.
There are two types of cursors in PL/SQL:
Implicit cursors
These are created by default when DML statements like, INSERT, UPDATE, and

DELETE statements are executed. They are also created when a SELECT statement
that returns just one row is executed.
Explicit cursors
They must be created when you are executing a SELECT statement that returns mo
than one row. Even though the cursor stores multiple records, only one record can b
processed at a time, which is called as current row. When you fetch a row the
current row position moves to next row. Both implicit and explicit cursors have the
same functionality, but they differ in the way they are accessed
Example: Consider the PL/SQL Block that uses implicit cursor attributes as shown
below:
DECLARE var_rows number(5);
BEGIN
UPDATE employee
SET salary = salary + 1000;
IF SQL%NOTFOUND THEN
dbms_output.put_line('None of the salaries where updated');
ELSIF SQL%FOUND THEN
var_rows = SQL%ROWCOUNT;
dbms_output.put_line('Salaries for ' var_rows 'employees are updated');
END IF;
END;
In the above PL/SQL Block, the salaries of all the employees in the 'employee' table i
updated. If none of the employee's salary are updated we get a message 'None of the
salaries where updated'. Else we get a message like for example, 'Salaries for 1000
employees are updated' if there are 1000 rows in 'employee' table.