```
SQL> CREATE TABLE Employees (
2 EmployeeID INT PRIMARY KEY,
    FirstName VARCHAR2(50),
4 LastName VARCHAR2(50),
5 DepartmentID INT,
    Salary NUMBER(10,2),
7
    JoinDate DATE
8 );
Table created.
SQL> CREATE TABLE Departments (
2 DepartmentID INT PRIMARY KEY,
    DepartmentName VARCHAR2(100)
4);
Table created.
SQL> INSERT INTO Departments (DepartmentID, DepartmentName) VALUES
2 (1, 'HR');
1 row created.
SQL> INSERT INTO Departments (DepartmentID, DepartmentName) VALUES
2 (2, 'Finance');
1 row created.
SQL> INSERT INTO Departments (DepartmentID, DepartmentName) VALUES
2 (3, 'IT');
1 row created.
SQL> INSERT INTO Departments (DepartmentID, DepartmentName) VALUES
2 (4, 'Marketing');
1 row created.
SOL>
SQL> INSERT INTO Employees (EmployeeID, FirstName, LastName, DepartmentID, Salary, JoinDate)
2 (1, 'John', 'Doe', 1, 5000.00, TO_DATE('2020-01-15', 'YYYY-MM-DD'));
1 row created.
SQL> SELECT table_name FROM user_tables;
TABLE_NAME
STUDENT
PERSON
STUDENTS
STUDENT3
REST
CLASS
CLASSROOM
```

```
PRODUCTS
EMPLOYEES
DEPARTMENTS
10 rows selected.
SQL> CREATE OR REPLACE PROCEDURE sp_GetEmployeesByDepartment (
2 p_DeptID IN NUMBER
3)
4 IS
5 BEGIN
    FOR empRec IN (
7
      SELECT
8
        EmployeeID,
9
        FirstName,
10
         LastName,
11
         DepartmentID,
12
         Salary,
13
         JoinDate
14
       FROM Employees
15
       WHERE DepartmentID = p_DeptID
16
    )
    LOOP
17
       DBMS_OUTPUT.PUT_LINE(
18
19
         'EmployeeID: ' | empRec.EmployeeID | |
20
         ', Name: ' | empRec.FirstName | | ' ' | empRec.LastName | |
21
         ', DepartmentID: ' | empRec.DepartmentID | |
22
         ', Salary: ' | empRec.Salary | |
         ', JoinDate: ' | | TO_CHAR(empRec.JoinDate, 'YYYY-MM-DD')
23
24
       );
25
     END LOOP;
26 END;
27 /
Procedure created.
SQL> SET SERVEROUTPUT ON;
SQL> EXEC sp_GetEmployeesByDepartment(2);
PL/SQL procedure successfully completed.
SQL> CREATE OR REPLACE PROCEDURE sp_InsertEmployee (
    p_FirstName IN VARCHAR2,
    p_LastName IN VARCHAR2,
4
    p_DepartmentID IN NUMBER,
5
    p_Salary IN NUMBER,
6
    p_JoinDate IN DATE
7)
8 IS
10
     INSERT INTO Employees (EmployeeID, FirstName, LastName, DepartmentID, Salary, JoinDate)
11
     VALUES (
       (SELECT NVL(MAX(EmployeeID), 0) + 1 FROM Employees), -- Auto-increment workaround
12
13
       p_FirstName,
14
       p_LastName,
15
       p_DepartmentID,
16
       p_Salary,
```

```
17
       p_JoinDate
18
    );
19
20
     DBMS_OUTPUT.PUT_LINE('Employee inserted successfully.');
21 END;
22 /
Procedure created.
SQL> SET SERVEROUTPUT ON;
SQL>
SQL> EXEC sp_InsertEmployee(
BEGIN sp_InsertEmployee(; END;
ERROR at line 1:
ORA-06550: line 1, column 25:
PLS-00103: Encountered the symbol ";" when expecting one of the following:
() - + case mod new not null <an identifier>
<a double-quoted delimited-identifier> <a bind variable>
table continue avg count current exists max min prior sql
stddev sum variance execute multiset the both leading
trailing forall merge year month day hour minute second
timezone_hour timezone_minute timezone_region timezone_abbr
time timestamp interval date
<a string literal with character set specification>
SQL> p_FirstName => 'Alice',
SP2-0734: unknown command beginning "p_FirstNam..." - rest of line ignored.
SQL> p_LastName => 'Williams',
SP2-0734: unknown command beginning "p_LastName..." - rest of line ignored.
SQL> p_DepartmentID => 3,
SP2-0734: unknown command beginning "p_Departme..." - rest of line ignored.
SQL> p_Salary => 6200.00,
SP2-0734: unknown command beginning "p_Salary =..." - rest of line ignored.
SP2-0044: For a list of known commands enter HELP
and to leave enter EXIT.
SQL> p_JoinDate => TO_DATE('2022-06-01', 'YYYY-MM-DD')
SP2-0734: unknown command beginning "p_JoinDate..." - rest of line ignored.
SP2-0042: unknown command ")" - rest of line ignored.
SQL> SET SERVEROUTPUT ON;
SQL>
SQL> BEGIN
    sp_InsertEmployee(
3
       p_FirstName => 'Alice',
4
       p_LastName => 'Williams',
5
       p_DepartmentID => 3,
6
       p_Salary => 6200.00,
       p_JoinDate => TO_DATE('2022-06-01', 'YYYY-MM-DD')
7
    );
8
9 END;
10 /
Employee inserted successfully.
```

PL/SQL procedure successfully completed.

 $SQL> EXEC \ sp_InsertEmployee('Alice', 'Williams', 3, 6200.00, TO_DATE('2022-06-01', 'YYYY-MM-DD'));$

Employee inserted successfully.

PL/SQL procedure successfully completed.

SQL>