**SQL> CREATE TABLE Employees (**

**2 EmployeeID INT PRIMARY KEY,**

**3 FirstName VARCHAR2(50),**

**4 LastName VARCHAR2(50),**

**5 DepartmentID INT,**

**6 Salary NUMBER(10,2),**

**7 JoinDate DATE**

**8 );**

**Table created.**

**SQL> CREATE TABLE Departments (**

**2 DepartmentID INT PRIMARY KEY,**

**3 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.**

**SQL>**

**SQL> INSERT INTO Employees (EmployeeID, FirstName, LastName, DepartmentID, Salary, JoinDate) VALUES**

**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**

**6 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 )**

**17 LOOP**

**18 DBMS\_OUTPUT.PUT\_LINE(**

**19 'EmployeeID: ' || empRec.EmployeeID ||**

**20 ', Name: ' || empRec.FirstName || ' ' || empRec.LastName ||**

**21 ', DepartmentID: ' || empRec.DepartmentID ||**

**22 ', Salary: ' || empRec.Salary ||**

**23 ', JoinDate: ' || TO\_CHAR(empRec.JoinDate, 'YYYY-MM-DD')**

**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 (**

**2 p\_FirstName IN VARCHAR2,**

**3 p\_LastName IN VARCHAR2,**

**4 p\_DepartmentID IN NUMBER,**

**5 p\_Salary IN NUMBER,**

**6 p\_JoinDate IN DATE**

**7 )**

**8 IS**

**9 BEGIN**

**10 INSERT INTO Employees (EmployeeID, FirstName, LastName, DepartmentID, Salary, JoinDate)**

**11 VALUES (**

**12 (SELECT NVL(MAX(EmployeeID), 0) + 1 FROM Employees), -- Auto-increment workaround**

**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.**

**SQL> );**

**SP2-0042: unknown command ")" - rest of line ignored.**

**SQL> SET SERVEROUTPUT ON;**

**SQL>**

**SQL> BEGIN**

**2 sp\_InsertEmployee(**

**3 p\_FirstName => 'Alice',**

**4 p\_LastName => 'Williams',**

**5 p\_DepartmentID => 3,**

**6 p\_Salary => 6200.00,**

**7 p\_JoinDate => TO\_DATE('2022-06-01', 'YYYY-MM-DD')**

**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>**