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| **Problem Statement:** Write a program in PL/SQL to insert data into two tables from one table using an implicit cursor and print a list of students and the name of the departments**.** |

**Source Code:**

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| SQL> create table StudentDetails(student\_id number, student\_name varchar2(20), department\_name varchar2(20));  Table created.  SQL> insert into StudentDetails values(1111,'Ajit','computer');  1 row created.  SQL> insert into StudentDetails values(1112,'Bhim','computer');  1 row created.  SQL> insert into StudentDetails values(1113,'Rushi','civil');  1 row created.  SQL> insert into StudentDetails values(1114,'Danish','civil');  1 row created.  SQL> select \* from StudentDetails;  STUDENT\_ID STUDENT\_NAME DEPARTMENT\_NAME  ---------- -------------------- --------------------  1111 Ajit computer  1112 Bhim computer  1113 Rushi civil  1114 Danish civil  SQL> create table computer(student\_id number, student\_name varchar2(20));  Table created.  SQL> create table civil(student\_id number, student\_name varchar2(20));  Table created.  DECLARE  v\_student\_id StudentDetails.student\_id%TYPE;  v\_student\_name StudentDetails.student\_name%TYPE;  v\_department\_name StudentDetails.department\_name%TYPE;  BEGIN  -- Loop through each student in the source table  FOR student\_rec IN (SELECT student\_id, student\_name, department\_name FROM StudentDetails)  LOOP  -- Insert records into respective tables based on the department  IF student\_rec.department\_name = 'computer' THEN  INSERT INTO computer (student\_id, student\_name)  VALUES (student\_rec.student\_id, student\_rec.student\_name);  ELSIF student\_rec.department\_name = 'civil' THEN  INSERT INTO civil (student\_id, student\_name)  VALUES (student\_rec.student\_id, student\_rec.student\_name);  END IF;  END LOOP;  -- Print the list of students and their departments  DBMS\_OUTPUT.PUT\_LINE('List of Students and Their Departments:');    -- Print students from Computer department  FOR comp\_rec IN (SELECT student\_name FROM computer) LOOP  DBMS\_OUTPUT.PUT\_LINE('Student: ' || comp\_rec.student\_name || ', Department: Computer');  END LOOP;  -- Print students from Civil department  FOR civil\_rec IN (SELECT student\_name FROM civil) LOOP  DBMS\_OUTPUT.PUT\_LINE('Student: ' || civil\_rec.student\_name || ', Department: Civil');  END LOOP;  END;  / |

**OutPut:**

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| SQL> @assignment4.sql  List of Students and Their Departments:  Student: Ajit, Department: Computer  Student: Bhim, Department: Computer  Student: Rushi, Department: Civil  Student: Danish, Department: Civil  PL/SQL procedure successfully completed. |