**19.MULTIPLE CURSOR IN PL/SQL**

**CREATE TABLE DEPARTMENTS(DEPARTMENT\_ID INT PRIMARY KEY,DEPARTMENT\_NAME VARCHAR(20));**

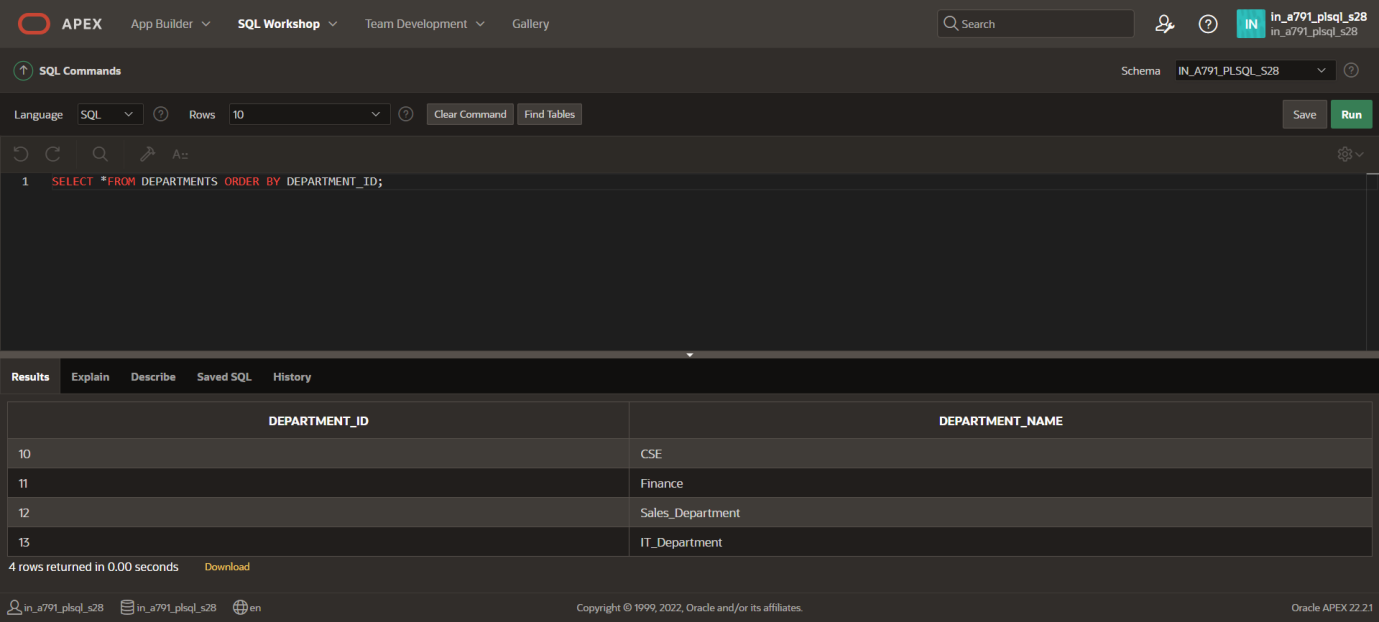
**INSERT INTO DEPARTMENTS VALUES(10,'CSE');**

**INSERT INTO DEPARTMENTS VALUES(11,'Finance');**

**INSERT INTO DEPARTMENTS VALUES(12,'Sales\_Department');**

**INSERT INTO DEPARTMENTS VALUES(13,'IT\_Department');**

**SELECT \*FROM DEPARTMENTS ORDER BY DEPARTMENT\_ID;**

****

**CREATE TABLE EMPLOYEES101(EMPLOYEE\_ID INT PRIMARY KEY,EMPLOYEE\_NAME VARCHAR(20),DEPARTMENT\_ID INT REFERENCES DEPARTMENTS(DEPARTMENT\_ID));**

**INSERT INTO EMPLOYEES101 VALUES(1,'Peter',11);**

**INSERT INTO EMPLOYEES101 VALUES(2,'Ben',13);**

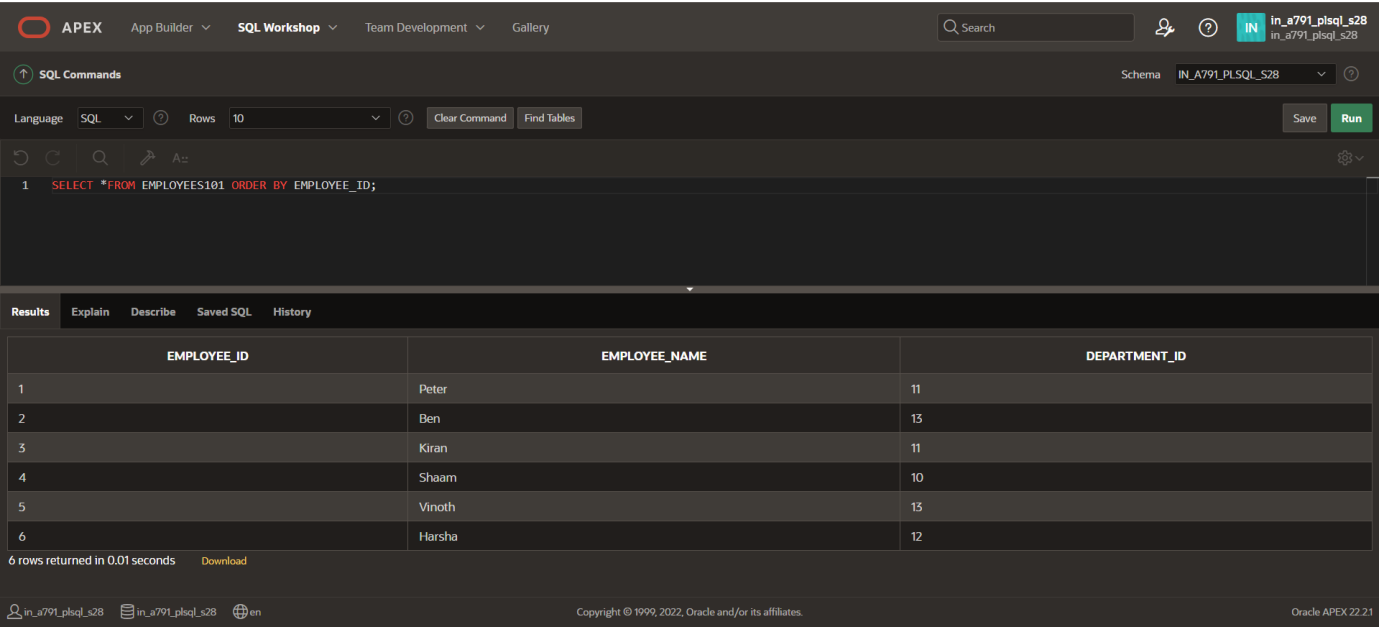
**INSERT INTO EMPLOYEES101 VALUES(3,'Kiran',11);**

**INSERT INTO EMPLOYEES101 VALUES(4,'Shaam',10);**

**INSERT INTO EMPLOYEES101 VALUES(5,'Vinoth',13);**

**INSERT INTO EMPLOYEES101 VALUES(6,'Harsha',12);**

**SELECT \*FROM EMPLOYEES101 ORDER BY EMPLOYEE\_ID;**

****

**DECLARE**

**CURSOR dept\_cursor IS SELECT department\_id, department\_name FROM DEPARTMENTS;**

**CURSOR emp\_cursor(p\_dept\_id NUMBER) IS SELECT employee\_id, employee\_name FROM EMPLOYEES101 WHERE department\_id = p\_dept\_id;**

**v\_department\_id DEPARTMENTS.department\_id%TYPE;**

**v\_department\_name DEPARTMENTS.department\_name%TYPE;**

**v\_employee\_id EMPLOYEES101.employee\_id%TYPE;**

**v\_employee\_name EMPLOYEES101.employee\_name%TYPE;**

**BEGIN**

**OPEN dept\_cursor;**

**LOOP**

**FETCH dept\_cursor INTO v\_department\_id, v\_department\_name;**

**EXIT WHEN dept\_cursor%NOTFOUND;**

**DBMS\_OUTPUT.PUT\_LINE('Department: ' || v\_department\_name);**

**OPEN emp\_cursor(v\_department\_id);**

**LOOP**

**FETCH emp\_cursor INTO v\_employee\_id, v\_employee\_name;**

**EXIT WHEN emp\_cursor%NOTFOUND;**

**DBMS\_OUTPUT.PUT\_LINE(' Employee: ' || v\_employee\_name);**

**END LOOP;**

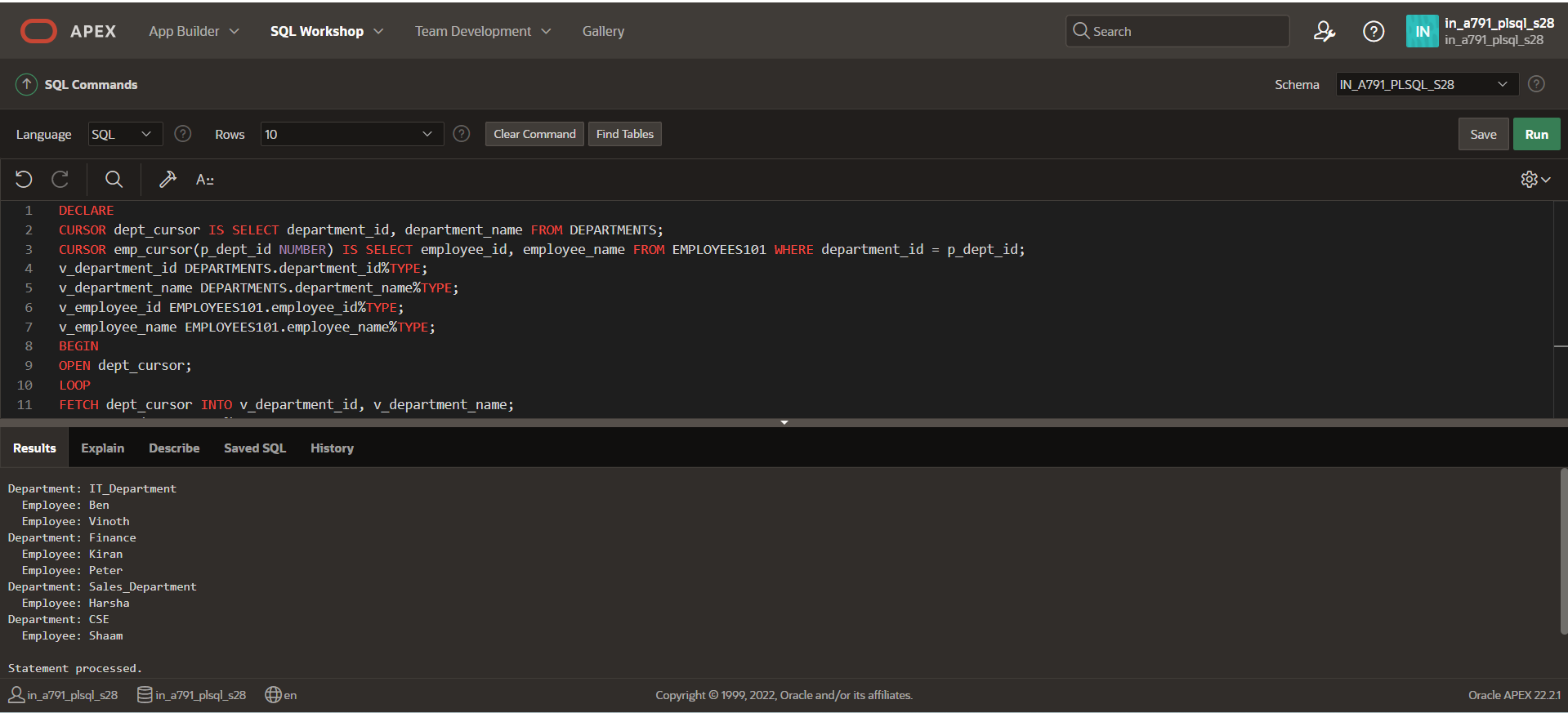
**CLOSE emp\_cursor;**

**END LOOP;**

**CLOSE dept\_cursor;**

**END;**

**/**

****