

```
SQL> /* HOMEWORK 8: Exercise 5.9 Page 73 */
SQL> Create or replace procedure Top3EachMajor as
2     CURSOR cStudents is select snum, sname, major, gpa from students order by major, gpa desc;
3     v_major varchar2(3);
4     v_count number;
5     Begin
6     v_major := 'XYZ';
7     v_count := 0;
8     For eachStudent in cStudents Loop
9         If v_major <> eachStudent.Major Then
10            v_count := 0;
11            v_major := eachStudent.Major;
12        End If;
13        If v_count<3 then
14            insert into studentArchive values (eachStudent.Snum,eachStudent.sname,
eachStudent.major,eachStudent.GPA);
15            v_count := v_count + 1;
16        End If;
17    End Loop;
18    commit;
19 End;
20 /
```

Procedure created.

```
SQL> show err;
```

No errors.

```
SQL> Pause;
```

```
SQL> Exec Top3EachMajor();
```

PL/SQL procedure successfully completed.

```
SQL> select * from studentArchive;
```

SNU	SNAME	MAJ	GPA
111	Julie	ACC	3.8
105	Ellen	ACC	3.5
121	Kelly	ACC	3.4
102	Betty	FIN	3.7
104	David	FIN	3.6
109	Anna	FIN	3.4
120	Fuji	IS	3.9
123	Sam	IS	3.7
101	Andy	IS	3.5
116	Camilla	MKT	3.8
107	Jim	MKT	3.7
106	Frank	MKT	3.6

12 rows selected.

```
SQL> spool off;
```