

STORED PROCEDURES

GROUP 5D

1.

```
CREATE OR REPLACE FUNCTION whatsmycpi (name character varying(40)) RETURNS
numeric(4,2)
AS $BODY$
DECLARE
    mycpi numeric(4,2);
BEGIN
    SELECT cpi INTO mycpi FROM student as s WHERE s.sname=name;
    RETURN mycpi;
END
$BODY$ LANGUAGE plpgsql;
```

2.

```
CREATE TYPE student_name AS (st_name character varying (40));
```

```
CREATE OR REPLACE FUNCTION researchportal.goodStudentPublishers() RETURNS SETOF
student_name AS $BODY$
DECLARE
    s_name student_name;
BEGIN
    FOR s_name IN SELECT sname FROM (SELECT author_id, count(doi) as
noOfPublications FROM research_contribution GROUP BY author_id HAVING count(doi)>1) AS
r JOIN student AS s ON r.author_id=s.sid
    LOOP
        RETURN NEXT s_name;
    END LOOP;
    RETURN;
END
$BODY$
LANGUAGE plpgsql;
```

3.

```
CREATE TYPE pr_name AS (professor_name character varying (25)) ;
```

```
CREATE OR REPLACE FUNCTION interested_professors(p_interest character varying (25))
RETURNS SETOF pr_name AS
$BODY$
DECLARE
    r pr_name;
BEGIN
    FOR r IN SELECT prof_name FROM (SELECT * FROM professorinterests WHERE
interest=p_interest) AS i_profs NATURAL JOIN professor
    LOOP
        RETURN NEXT r;
    END LOOP;
    RETURN;
END
$BODY$
LANGUAGE plpgsql;
```