```sql
CREATE USER dean_acads WITH ENCRYPTED PASSWORD 'p_dean';

CREATE TABLE course_catalogue(
        course_id       VARCHAR(6) NOT NULL PRIMARY KEY,
        L                       INTEGER  NOT NULL,
        T                       INTEGER  NOT NULL,
        P                       INTEGER  NOT NULL,
        S                       INTEGER  NOT NULL,
        C                       INTEGER  NOT NULL,
        prereqs                 VARCHAR[]
);

GRANT ALL ON course_catalogue TO dean_acads;

CREATE PROCEDURE insert_in_catalogue(course_id       VARCHAR(6),
        L               INTEGER,
        T               INTEGER,
        P               INTEGER,
        S               INTEGER,
        C               INTEGER,
        prereqs                 VARCHAR[])
LANGUAGE plpgsql
AS $$
BEGIN
INSERT INTO course_catalogue(course_id, L, T, P, S, C, prereqs) VALUES (course_id, L, T, P,
S, C, prereqs);
END
$$;


CREATE OR REPLACE PROCEDURE insert_ticket(cour_id          VARCHAR(6),
        sem             INTEGER,
        yea             INTEGER
)
LANGUAGE plpgsql
AS $$
DECLARE
        stu_id VARCHAR(6);
BEGIN
        SELECT current_user INTO stu_id;
        IF EXISTS (SELECT * FROM course_offering co WHERE co.course_id = cour_id and
co.semester = sem and co.year = yea)
        THEN
```

```
        EXECUTE FORMAT('INSERT INTO tickets_table(student_id, course_id, semester, year)
VALUES (%I , %I, %s, %s)', stu_id, cour_id, sem, year);
        ELSE
        RAISE NOTICE '% course not offered in % sem % year',cour_id, sem, yea;
        END IF;
END;$$



CALL student_entry('ram',2019);
CALL student_entry('sita',2019);
CALL student_entry('raj',2018);
CALL student_entry('rani',2018);
CALL student_entry('s1',2019);
CALL student_entry('s2',2019);
CALL student_entry('s11',2018);
CALL student_entry('s12',2018);

CALL faculty_entry('f19');
CALL faculty_entry('f18');
CALL faculty_entry('f1');
CALL faculty_entry('f2');
CALL faculty_entry('f3');

CALL upload_time_slot(ARRAY[110, 210, 310]);
CALL upload_time_slot(ARRAY[110, 211, 311]);
CALL upload_time_slot(ARRAY[111, 211, 311]);
CALL upload_time_slot(ARRAY[112, 212, 312]);


CALL insert_in_catalogue('cs201', 3,2,0,0,3, NULL);
CALL insert_in_catalogue('cs202', 3,2,0,0,3, NULL);
CALL insert_in_catalogue('cs203', 3,2,0,0,3, NULL);
CALL insert_in_catalogue('cs301', 3,2,0,0,4, ARRAY['cs201']);
CALL insert_in_catalogue('cs302', 3,2,0,0,4, ARRAY['cs202']);
CALL insert_in_catalogue('cs303', 3,2,0,0,4, ARRAY['cs203']);
CALL insert_in_catalogue('ge103', 3,2,0,0,4, NULL);
CALL insert_in_catalogue('hs475', 3,2,0,0,4, NULL);
CALL insert_in_catalogue('ge111', 3,2,0,0,4, NULL);
```

```sql
GRANT ALL ON course_catalogue TO dean_acads;
GRANT SELECT ON course_offering TO dean_acads;
GRANT SELECT, UPDATE ON tickets_table TO dean_acads;
GRANT SELECT, UPDATE ON dean_tickets_table TO dean_acads;
GRANT SELECT ON student_table TO dean_acads;
GRANT ALL ON time_table TO dean_acads;
GRANT UPDATE on tickets_table TO dean_acads;
GRANT ALL ON  faculty_advisor TO dean_acads;
GRANT SELECT ON faculty_table TO dean_acads;
```

```sql
CALL insert_course_offering('cs301', 1, 2021, ARRAY[110, 210, 310], NULL, 7.5);
CALL insert_course_offering('cs302', 1, 2021, ARRAY[111, 211, 311], NULL, NULL);
CALL insert_course_offering('cs303', 1, 2021, ARRAY[112, 212, 312], NULL, NULL);

CALL insert_course_offering('cs201', 1, 2020, ARRAY[110, 210, 310], NULL, NULL);
CALL insert_course_offering('cs202', 1, 2020, ARRAY[111, 211, 311], NULL, NULL);
CALL insert_course_offering('cs203', 1, 2020, ARRAY[112, 212, 312], NULL, NULL);

CALL insert_course_offering('ge103', 2, 2020, ARRAY[110, 210, 310], NULL, NULL);
CALL insert_course_offering('hs475', 2, 2020, ARRAY[111, 211, 311], NULL, NULL);
CALL insert_course_offering('ge111', 2, 2020, ARRAY[112, 212, 312], NULL, NULL);


S1
CALL student_registration('ge103', 2, 2020);
CALL student_registration('ge111', 2, 2020);
CALL student_registration('cs201', 1, 2020);
CALL student_registration('cs202', 1, 2020);
CALL student_registration('cs301', 1, 2021);


S2
CALL student_registration('ge103', 2, 2020);
CALL student_registration('hs475', 2, 2020);
CALL student_registration('cs201', 1, 2020);
CALL student_registration('cs203', 1, 2020);
CALL student_registration('cs303', 1, 2021);

S11
```

```
CALL student_registration('ge103', 2, 2020);
CALL student_registration('hs475', 2, 2020);
CALL student_registration('cs201', 1, 2020);
CALL student_registration('cs202', 1, 2020);
CALL student_registration('cs301', 1, 2021);


S12
CALL student_registration('ge111', 2, 2020);
CALL student_registration('hs475', 2, 2020);
CALL student_registration('cs201', 1, 2020);
CALL student_registration('cs202', 1, 2020);
CALL student_registration('cs302', 1, 2021);




import_csv('ge111', 2, 2020, 'C:\Users\Public\folder\myfile');
CALL import_csv('hs475', 2, 2020, 'C:\Users\Public\folder\myfile.csv');
CALL import_csv('cs201', 1, 2020, 'C:\Users\Public\folder\myfile.csv');
CALL import_csv('ge103', 2, 2020, 'C:\Users\Public\folder\myfile.csv');
```