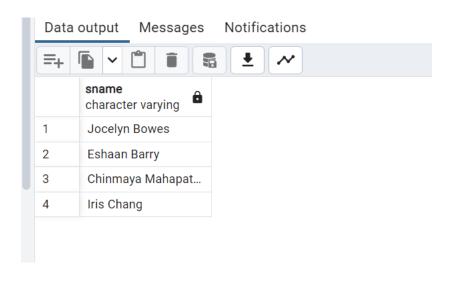
Name: Gurdev singh

Id:100376466

### Lab:6

## 1. Name of students Who enrolled in at least One section: Ans:

SELECT DISTINCT(SName)
FROM student JOIN std\_enrolls\_sec
ON std\_enrolls\_sec.sid = student.sid

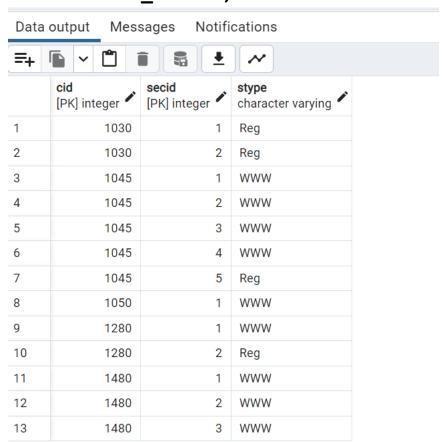


2. Show the course id, section id, and section type that have been enrolled by at least one student.

#### Ans:

SELECT course\_section.cid, course\_section.secid, course\_section.stype

FROM course section;



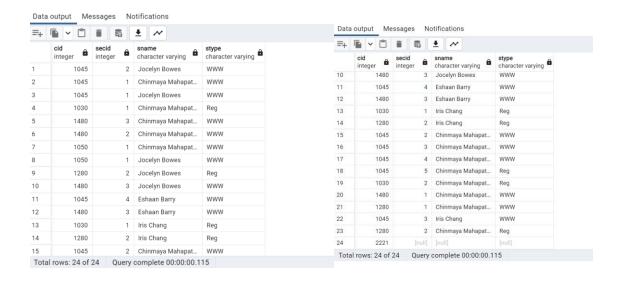
3. Show the secid, cid, stype (no metter if student is enrolled or not) and student name who is enrolled:

### Ans:

**SELECT** 

course.cid,std\_enrolls\_sec.secid,student.sname,course\_se ction.stype

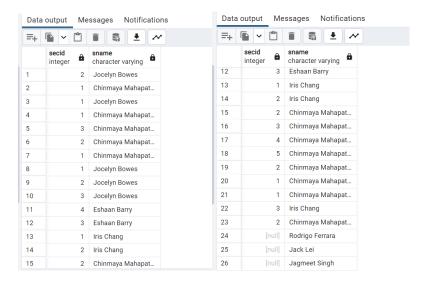
FROM student FULL JOIN std\_enrolls\_sec
ON std\_enrolls\_sec.sid=student.sid
RIGHT JOIN course
ON course.cid = std\_enrolls\_sec.cid
LEFT JOIN course\_section
ON course\_section.cid = course.cid
AND course\_section.secid = std\_enrolls\_sec.secid



4. Display the name of all the students(Whether or not they are enrolled in any section) and section number of all the sections they are enrolled;

#### Ans:

SELECT std\_enrolls\_sec.secid,student.sname FROM student LEFT JOIN std\_enrolls\_sec ON std\_enrolls\_sec.sid=student.sid



5. Display the name of the students and name of all sections they have enrolled(NO matter if student is enrolled in section or section have any students) Ans:

SELECT std\_enrolls\_sec.secid,student.sname
FROM student LEFT JOIN std\_enrolls\_sec
ON std\_enrolls\_sec.sid=student.sid
FULL JOIN course
ON course.cid = std\_enrolls\_sec.cid

Data	output Me	essages Notifications
=+	<b>•</b> •	
	secid integer	sname character varying
8	1	Jocelyn Bowes
9	2	Jocelyn Bowes
10	3	Jocelyn Bowes
11	4	Eshaan Barry
12	3	Eshaan Barry
13	1	Iris Chang
14	2	Iris Chang
15	2	Chinmaya Mahapat
16	3	Chinmaya Mahapat
17	4	Chinmaya Mahapat
18	5	Chinmaya Mahapat
19	2	Chinmaya Mahapat
20	1	Chinmaya Mahapat
21	1	Chinmaya Mahapat
22	3	Iris Chang
23	2	Chinmaya Mahapat
24	[null]	Rodrigo Ferrara
25	[null]	Jack Lei
26	[null]	Jagmeet Singh
27	[null]	[null]
Tota	l rows: 27 of	27 Query complete 00:00:00.153

6. Display the name of the student who is not enrolled in any section.

#### Ans:

SELECT student.sname

**FROM** student

WHERE sid IN(

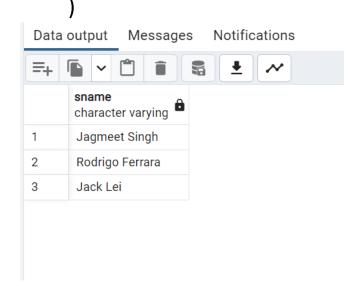
SELECT student.sid

FROM student

**EXCEPT** 

SELECT std\_enrolls\_sec.sid

FROM std\_enrolls\_sec



7.Display the name of the section which is not enrolled by any student.

Ans:

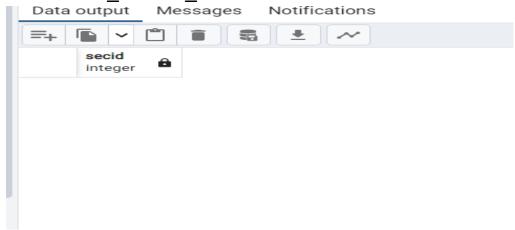
SELECT course\_section.secid

FROM course\_section

**EXCEPT** 

SELECT std\_enrolls\_sec.secid

FROM std\_enrolls\_sec



# Q-8: Display the name of student and number of section they are enrolled.

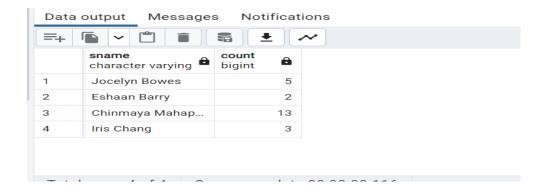
### Ans:

SELECT student.sname,count(secid)

FROM std\_enrolls\_sec JOIN student

ON student.sid = std\_enrolls\_sec.sid

GROUP BY(student.sname)



## 9. Show the name of the students who have taken all the courses.

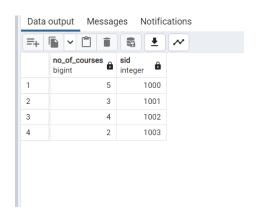
#### Ans:

--//This will create a new table:

CREATE TABLE std\_have\_course

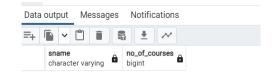
AS

SELECT count(DISTINCT cid) AS
"no\_of\_courses",sid
FROM std\_enrolls\_sec
GROUP BY(sid)



### --A student who is enrolled in all 6 courses:

SELECT sname,no\_of\_courses
FROM student JOIN
std\_have\_course
ON
student.sid=std\_have\_course.sid
WHERE no\_of\_courses=6



## 10. show the CID of courses and number of students who are enrolled in all these sections.

Ans:

SELECT cid,secid,count(sid) AS "student enrolled" FROM std\_enrolls\_sec GROUP BY (cid,secid)

	cid integer	secid integer	student enrolled bigint
1	1045	5	1
2	1045	3	2
3	1280	1	1
4	1480	3	3
5	1045	1	2
6	1280	2	3
7	1480	2	1
8	1045	4	2
9	1050	1	2
10	1480	1	1
11	1030	1	2
12	1030	2	1
13	1045	2	2

### 11. Show the name friends of Chinmaya Mahapatra in all sections he is enrolled

Ans:

SELECT DISTINCT student.sname AS "friend of Chinmya mahaptara"

FROM student JOIN std\_enrolls\_sec

ON student.sid = std enrolls sec.sid

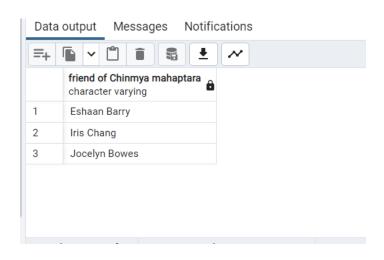
WHERE cid IN(

**SELECT cid** 

FROM std enrolls sec

WHERE sid=1000

```
) AND secid IN
(
SELECT secid
FROM std_enrolls_sec
WHERE sid=1000
)
AND std_enrolls_sec.sid<>1000
```



## 12. Show the name of all students who are enrolled in 1045-001.

Ans:

SELECT sname
FROM student JOIN std\_enrolls\_sec
ON std\_enrolls\_sec.sid = student.sid
WHERE cid=1045 AND secid=001

