LAB6

Simran

100377444

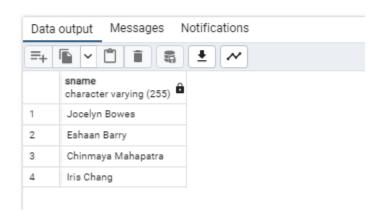
Q1: Display the name of students who enrolled in at least one section.

ANS: SELECT DISTINCT student.sName

FROM student JOIN std_enrolls_sec

ON std_enrolls_sec.sid = student.sid;

SELECT DISTINCT student.sName
FROM student JOIN std_enrolls_sec
ON std_enrolls_sec.sid = student.sid;

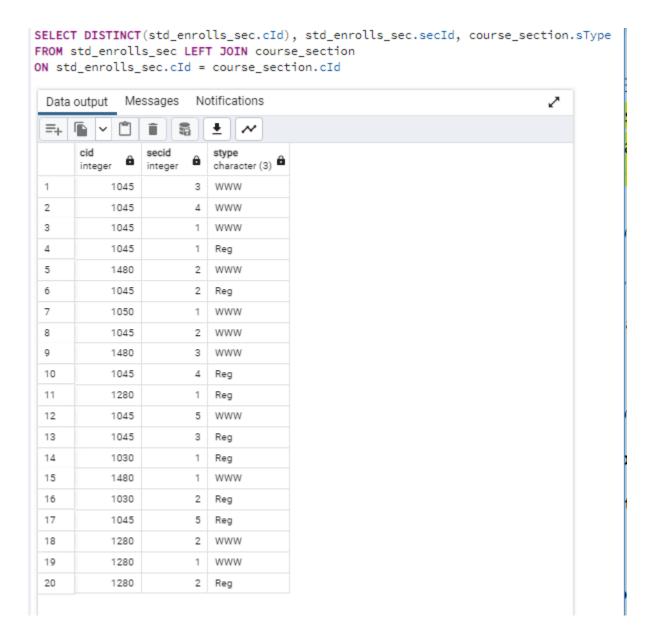


Q2: Retrieve Course ID, section ID, and Section Type of the sections that have been enrolled by at least one student

ANS: SELECT DISTINCT(std_enrolls_sec.cld), std_enrolls_sec.secId, course_section.sType

FROM std_enrolls_sec LEFT JOIN course_section

ON std_enrolls_sec.cld = course_section.cld;



Q3: Display CIS, SecID, and SType of all sections (no matter if a student has enrolled in that section or not) and the name of students who enrolled in that section.

ANS: SELECT DISTINCT course_section.cld, course_section.secId, course_section.sType, student.sName

FROM std enrolls sec, course section, student

WHERE std_enrolls_sec.cld = course_section.cld

AND std_enrolls_sec.sld = student.sld;

SELECT DISTINCT course_section.cId, course_section.secId, course_section.sType, student.sName
FROM std_enrolls_sec, course_section, student
WHERE std_enrolls_sec.cId = course_section.cId
AND std_enrolls_sec.sId = student.sId

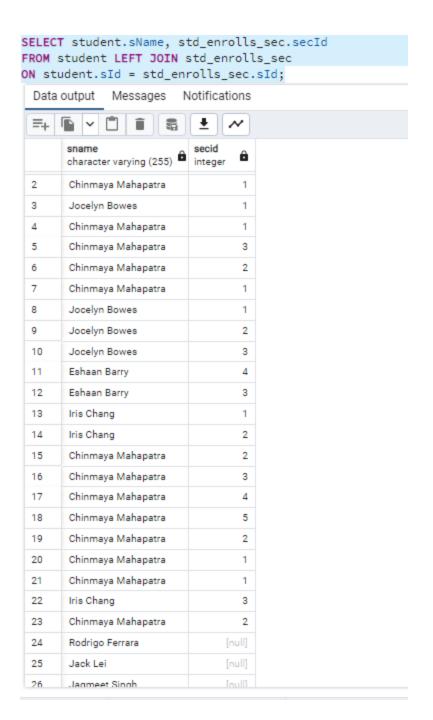
Data	output Me	ssages No	otifications		Z.
=+	· ~		<u>*</u>		
	cid integer	secid integer	stype character (3)	sname character varying (255)	
1	1030	1	Reg	Chinmaya Mahapatra	
2	1030	1	Reg	Iris Chang	
3	1030	2	Reg	Chinmaya Mahapatra	
4	1030	2	Reg	Iris Chang	
5	1045	1	www	Chinmaya Mahapatra	
6	1045	1	www	Eshaan Barry	
7	1045	1	www	Iris Chang	
8	1045	1	www	Jocelyn Bowes	
9	1045	2	www	Chinmaya Mahapatra	
10	1045	2	www	Eshaan Barry	
11	1045	2	www	Iris Chang	
12	1045	2	www	Jocelyn Bowes	
13	1045	3	www	Chinmaya Mahapatra	
14	1045	3	www	Eshaan Barry	
15	1045	3	www	Iris Chang	
16	1045	3	www	Jocelyn Bowes	
17	1045	4	www	Chinmaya Mahapatra	
18	1045	4	www	Eshaan Barry	
19	1045	4	www	Iris Chang	
20	1045	4	www	Jocelyn Bowes	
21	1045	5	Reg	Chinmaya Mahapatra	
22	1045	5	Reg	Eshaan Barry	
23	1045	5	Reg	Iris Chang	
24	1045	5	Rea	Jocelyn Bowes	

Q4: Display the name of all students (no matter if they have enrolled in any section) and the section number of all sections that they have enrolled.

ANS: SELECT student.sName, std_enrolls_sec.secId

FROM student LEFT JOIN std_enrolls_sec

ON student.sld = std enrolls sec.sld;

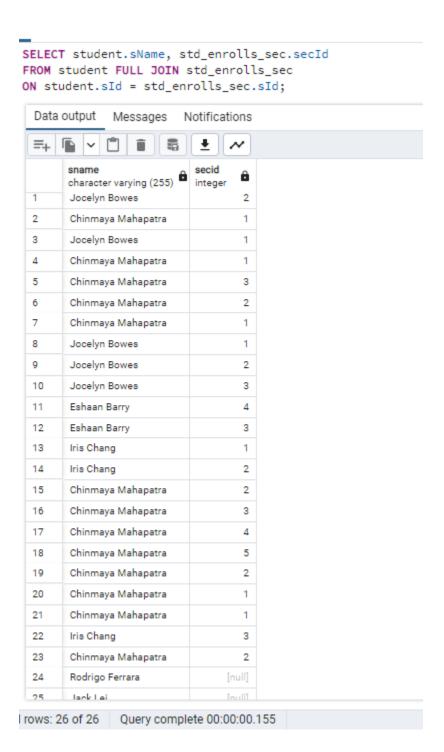


Q5: Display the name of all students and all sections they have enrolled (no matter if a student has enrolled in any section and no matter if a section was enrolled by any student)

ANS: SELECT student.sName, std_enrolls_sec.secId

FROM student FULL JOIN std_enrolls_sec

ON student.sld = std_enrolls_sec.sld;



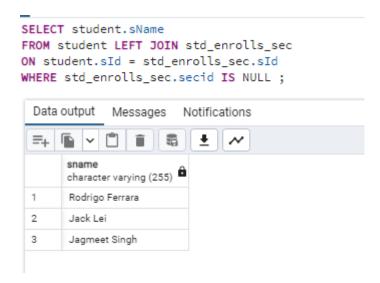
Q6: Display the name of student who have not enrolled in any section?

ANS: SELECT student.sName

FROM student LEFT JOIN std_enrolls_sec

ON student.sld = std_enrolls_sec.sld

WHERE std enrolls sec.secid IS NULL;



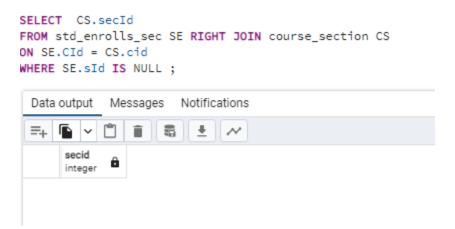
Q7: Display the name of section which has not be enrolled by any student?

ANS: SELECT CS.secId

FROM std_enrolls_sec SE RIGHT JOIN course_section CS

ON SE.cld = CS.cld

WHERE SE.sId IS NULL;



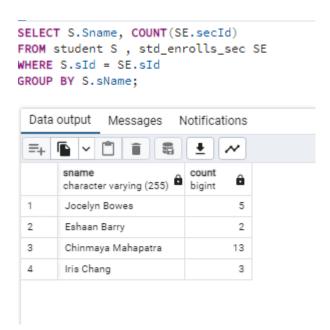
Q8: Retrieve the name of student and number of sections that they have enrolled

ANS: SELECT S.Sname, COUNT(SE.secId)

FROM student S, std enrolls sec SE

WHERE S.sId = SE.sId

GROUP BY S.sName;



Q9: Retrieve the name of students who have taken all courses

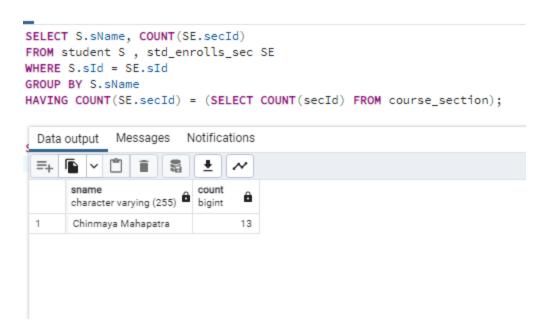
ANS: SELECT S.sName

FROM student S, std_enrolls_sec SE

WHERE S.sId = SE.sId

GROUP BY S.sName

HAVING COUNT(SE.secId) = (SELECT COUNT(secId) FROM
course_section);



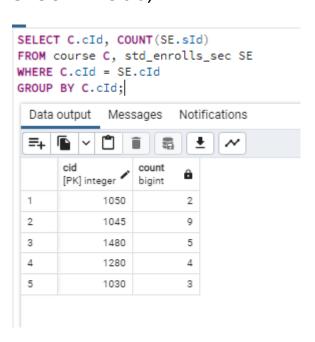
Q10: Retrieve the CID of courses and the number of students who enrolled in those sections

ANS: SELECT C.cld, COUNT(SE.sld)

FROM course C, std_enrolls_sec SE

WHERE C.cld = SE.cld

GROUP BY C.cld;



Q11: Retrieve the name of students who are classmates with 'Chinmaya Mahapatra' in all sections that he has enrolled.

ANS: SELECT DISTINCT S.sName

FROM student S, std_enrolls_sec SE

WHERE S.sId = SE.sId

AND S.sName <> 'Chinmaya Mahapatra'

AND EXISTS(

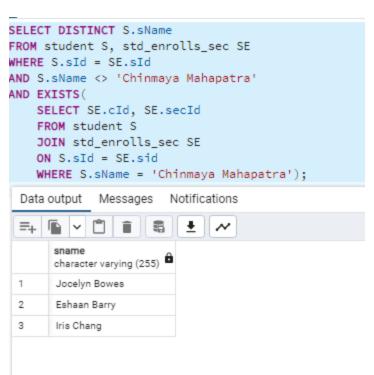
SELECT SE.cld, SE.secId

FROM student S

JOIN std_enrolls_sec SE

ON S.sId = SE.sid

WHERE S.sName = 'Chinmaya Mahapatra');



Q12: Retrieve the name of all students who enrolled in 1045-001

ANS: SELECT S.sName

FROM student S, std_enrolls_sec SE

WHERE S.sId = SE.sId

AND SE.cld = '1045'

AND SE.secId = '1';

