Lab 6

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**Q1: Display the name of students who enrolled in at least one section.**SELECT student.sname   
FROM Student INNER JOIN std\_enrolles\_sec   
ON Student.SID = std\_enrolles\_sec.SID   
GROUP BY Student.sname;  
Table

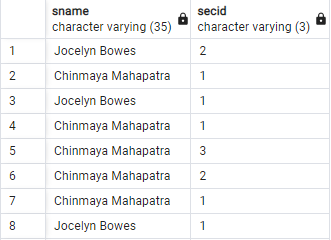
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**Q2: Retrieve course ID, section ID, and Section Type of the sections that have been enrolled by at least on student**SELECT DISTINCT course\_Section.SecID, course\_Section.CID, course\_Section.SType   
FROM course\_Section INNER JOIN Std\_Enrolles\_Sec   
ON course\_Section.secID = Std\_Enrolles\_Sec.secID   
AND course\_Section.CID = Std\_Enrolles\_Sec.CID   
ORDER BY course\_Section.SecID; **Table

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**Q3: Display CID, 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.**SELECT course\_Section.CID, course\_Section.SecID, course\_Section.SType, Student.Sname   
FROM course\_Section LEFT JOIN std\_Enrolles\_Sec   
ON std\_Enrolles\_Sec.cid = course\_Section.cid   
AND std\_Enrolles\_Sec.secid = course\_Section.secid   
LEFT JOIN Student   
ON std\_Enrolles\_Sec.SID = Student.SID;  
**Table

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**Q4: Display the name of all students (no matter if they have enrolled in any sections) and the section number of all sections that they have enrolled**SELECT Student.SName, Std\_Enrolles\_Sec.SecID   
FROM Student INNER JOIN Std\_Enrolles\_Sec   
ON Student.SID = Std\_Enrolles\_Sec.SID  
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**Q5: Display the name of all students and all sections they have enrolled**SELECT Student.SName, Course\_Section.CID, Course\_Section.SecID, Course\_Section.SType   
FROM Student INNER JOIN Std\_Enrolles\_Sec   
ON Student.SID = Std\_Enrolles\_Sec.SID   
LEFT JOIN Course\_Section   
ON Std\_Enrolles\_Sec.SecID = Course\_Section.SecID   
AND Std\_Enrolles\_Sec.CID = Course\_Section.CID  
**Table

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**Q6: Display the name of student who have not enrolled in any section**SELECT Student.SName   
FROM Student LEFT OUTER JOIN Std\_Enrolles\_Sec   
ON Student.SID = Std\_Enrolles\_Sec.SID   
WHERE Std\_Enrolles\_Sec.SID IS NULL  
**Graphical user interface, application

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**Q7: Display the the name of section which has not been enrolled by any student**SELECT Course.CName   
FROM Course LEFT OUTER JOIN Std\_Enrolles\_Sec   
ON Course.CID = Std\_Enrolles\_Sec.CID   
WHERE Std\_Enrolles\_Sec.CID IS NULL  
****

**Q8: Retrieve the name of student and number of sections that they have enrolled**SELECT Student.SName, COUNT(Std\_Enrolles\_Sec.SecID)   
FROM Student LEFT JOIN Std\_Enrolles\_Sec   
ON Student.SID = Std\_Enrolles\_Sec.SID   
GROUP BY Student.SName **Table

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**Q9: Retrieve the name of students who have taken all courses**SELECT Student.SName, COUNT(DISTINCT(Std\_Enrolles\_Sec.CID))   
FROM Student   
LEFT JOIN Std\_Enrolles\_Sec   
ON Student.SID = Std\_Enrolles\_Sec.SID   
GROUP BY Student.SName   
HAVING COUNT(DISTINCT(Std\_Enrolles\_Sec.CID)) = 6;  
**Graphical user interface, application, Word

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**Q10: Retrieve the CID of courses and the number of students who enrolled in those sections**SELECT CID, SecID, COUNT(SID)   
FROM Std\_Enrolles\_Sec   
GROUP BY CID, SecID   
ORDER BY CID, SecID;  
**Table

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**Q11: Retrieve the name of students who are classmates with ‘Chinmaya Mahapatra’ in all sections that he has enrolled**SELECT DISTINCT Student.Sname   
FROM Student JOIN Std\_Enrolles\_Sec   
ON Student.SID = Std\_Enrolles\_Sec.SID   
NATURAL JOIN   
(SELECT Std\_Enrolles\_Sec.CID, Std\_Enrolles\_Sec.SecID   
FROM Student JOIN Std\_Enrolles\_Sec ON Std\_Enrolles\_Sec.SID = Student.SID   
WHERE Student.Sname = 'Chinmaya Mahapatra'   
ORDER BY Std\_Enrolles\_Sec.CID, Std\_Enrolles\_Sec.SecID)   
AS classMates   
WHERE Student.SName != 'Chinmaya Mahapatra';  
**Graphical user interface, application, table

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

SELECT Std\_Enrolles\_Sec.CID, Std\_Enrolles\_Sec.SecID, Student.SName   
FROM Student NATURAL JOIN Std\_Enrolles\_Sec   
WHERE Std\_Enrolles\_Sec.CID = '1045' AND Std\_Enrolles\_Sec.SecID = '1'  
Graphical user interface, application

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