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1.  /*
2.  ** TITLE : CSE 4125 Assignment #1
3.  ** AUTHOR : Syed Sanzam
4.  ** GROUP : A2
5.  ** ID: 16.01.04.042
6.  ** DATE : 19.07.19
7.  */
8.
9.  /*PART_A_01*/
10.
11. CREATE OR REPLACE view myView as
12. SELECT S.snum as StudentID, E.cnum as CourseID
13. FROM Student S
14. FULL JOIN Enrolled E
15. ON S.snum = E.snum;
16.
17. SELECT snum,sname from student where snum IN (SELECT StudentID from myView where Course
    Id is NULL);
18.
19.
20. /*PART_A_02*/
21.
22. CREATE OR REPLACE view myView2 as
23. SELECT snum as StudentId, count(cnum) as CourseTaken
24. FROM Enrolled
25. WHERE snum in (SELECT snum from Student)
26. GROUP BY snum
27. ORDER BY snum;
28.
29. SELECT sname as Name, major as Major from Student WHERE
30. snum IN (SELECT StudentId from myView2 WHERE
31.     CourseTaken = (SELECT MAX(CourseTaken) from myView2));
32.
33.
34. /*PART_B_01*/
35.
36. SET SERVEROUTPUT ON;
37.
38. DECLARE
39.
40.     avgAge FLOAT(10);
41.
42. BEGIN
43.     SELECT AVG(age) INTO avgAge FROM STUDENT where snum IN
44.     (SELECT snum FROM Enrolled where cnum IN
45.         (SELECT cnum FROM Course WHERE fid IN
46.             (SELECT fid from Faculty WHERE fname = 'Shariful Islam')))) AND slevel = 3;
47.
48.     DBMS_OUTPUT.PUT_LINE('Average age is ' || avgAge);
49.
50. END;
51. /
52.
53. /*PART_B_02*/
54.
55. SET SERVEROUTPUT ON;
56.
57. DECLARE
58.
59.     numStudent Student.snum %TYPE;

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60.
61. BEGIN
62.
63.     SELECT COUNT(COUNT(snum)) INTO numStudent FROM
64.     (SELECT E.snum, C.room
65.     FROM Enrolled E
66.     FULL JOIN Course C
67.     ON E.cnum = C.cnum
68.     FULL JOIN Student ON E.snum = Student.snum)
69.     GROUP BY (snum)
70.     HAVING COUNT(DISTINCT room) = 2;
71.
72.     DBMS_OUTPUT.PUT_LINE('Number of Students who take classes in exactly two different
rooms is ' || numStudent);
73.
74. END;
75. /
```