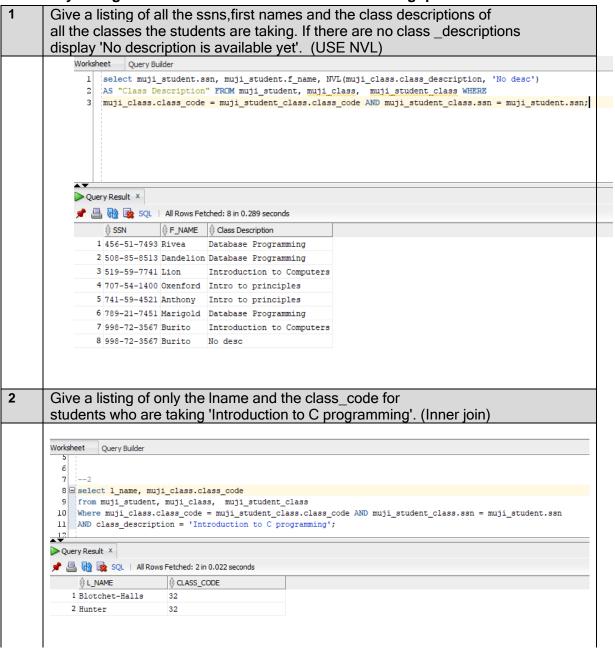
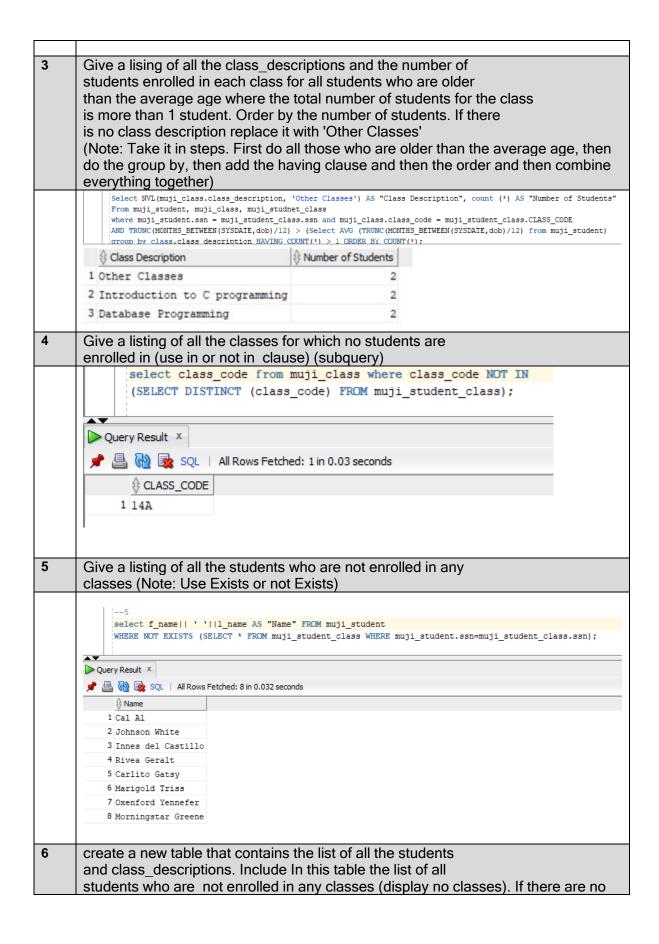
Follow the same formatting guidelines as the previous homework assignment.

Copy and paste the contents of student.txt (Same as the previous lab) into your SQLPlus session. Rename the tables such that they are all prefixed with the first five letters of your lastname such as sabze_student. Make sure that the tables (student, classes and student_class) are all renamed properly before you continue.

Use only a single SQL statement for each of the following questions





class descriptions then display 'no description' (Use combination of inner join, union and minus) (Note: minus will deal with the students who are not enrolled in any classes)

```
create table new_table AS(select f_name||' '||1_name AS "Name",

NVL(class_description,'No Desc') AS "Class Description"

FROM muji_student, muji_class, muji_student_class

WHERE muji_student.ssn = muji_student_class.ssn AND muji_student_class.class_code = muji_class.class_code

union (SELECT f_name||' '||1_name AS "Name", 'No Classes'

FROM (SELECT ssn FROM muji_student MINUS SELECT ssn FROM muji_student_class)

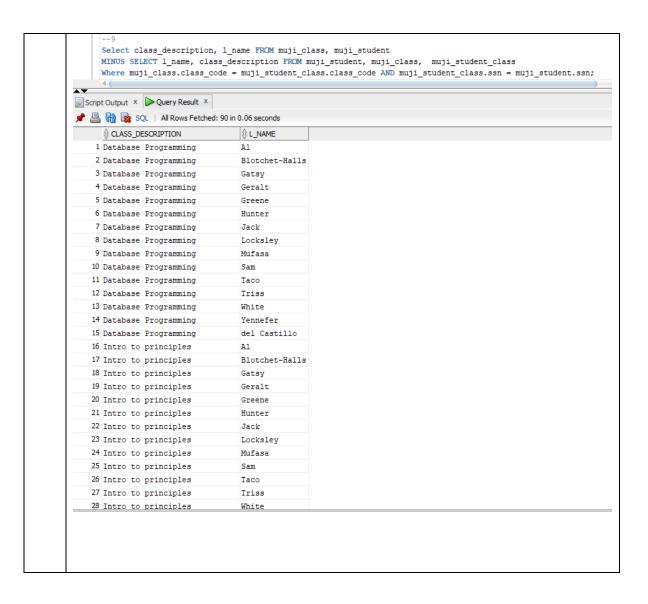
NATURAL JOIN muji_student));
```

	∯ Name	
1	Abraham Bennet	Database Programming
2	Akiko Yokomoto	Introduction to Computers
3	Albert Greeenr	Introduction to Computers
4	Albert Greeenr	No Description
5	Ann Dull	Intro to principles
6	Burt Gringlesby	Introduction to C programming
7	Cal Al	No classes
8	Chastity Locksley	No Description
9	Cheryl Gren	No classes
10	Innes del Castillo	Database Programming
11	Johnson White	Database Programming
12	Marjorie Green	Introduction to C programming
13	Michael O'Leary	Intro to principles
14	Morningstar Greene	No Description
15	Reginald Blotchet-Halls	No Description

repeat question 6 using a combination of inner join, union and not exists (Note: Not exists will deal with the students who are not enrolled in any classes)

```
create table new_table AS(select f_name||' '||1_name AS "Name",
NVL(class_description,'No Desc') AS "Class Description"
FROM muji_student, muji_class, muji_student_class
WHERE muji_student.ssn = muji_student_class.ssn AND muji_student_class.class_code = muji_class.class_code
union (SELECT f_name||' '||1_name AS "Name", 'No Classes'
FROM (SELECT ssn FROM muji_student WHERE NOT EXISTS(SELECT ssn FROM muji_student_class
WHERE muji_student.ssn = muji_student_class.ssn))
NATURAL JOIN muji_student));
```

		Δ	Α				
		∯ Name					
	1	Abraham Bennet	Database Programming				
	2	Akiko Yokomoto	Introduction to Computers				
	3	Albert Greeenr	Introduction to Computers				
	4	Albert Greeenr	No Description				
	5	Ann Dull	Intro to principles				
	6	Burt Gringlesby	Introduction to C programming				
	7	Cal Al	No classes				
	8	Chastity Locksley	No Description				
	9	Cheryl Gren	No classes				
	10	Innes del Castillo	Database Programming				
	11	Johnson White	Database Programming				
	12	Marjorie Green	Introduction to C programming				
	13	Michael O'Leary	Intro to principles				
	14	Morningstar Greene	No Description				
	15 Reginald Blotchet-Halls No Description						
8	We want to find out which courses are being taken by the different students for all those whose age is greater than the average age. Give a listing of the course descriptions and student names (Inner join)						
	select f_name ' ' 1_name AS "Name", NVL(class_description,'Other Classes') AS "Class Description" FRCM muji_student, muji_class, muji_student_class WHERE muji_student.ssn = muji_student_class.ssn AND muji_student_class.class_code = muji_class.class_code AND TRUNC (MONTHS_BETWEEN(SYSDATE, DOB)/12) > (SELECT AVG(TRUNC(MONTHS_BETWEEN (SYSDATE, DOB)/12)) FROM muji_student); Script Output × Query Result × Class Description Class Class Class Class Class Class Code Output × Query Result × Class Cla						
	1 Reginald Blotchet-Halls Introduction to C programming						
		Chastity Locksley Other Classes Dandelion Jack Database Programm	ning				
	4	Sheryl Hunter Introduction to C					
9	We want to find out the courses that each student is not enrolled in. Give a listing of the course descriptions, and the students (Iname) who are not taking that specific course (Use a cartesian product and inner join it with a minus)						



		L_NAME
28	Intro to principles	White
29	Intro to principles	Yennefer
30	Intro to principles	del Castillo
31	Introduction to C programming	Al
32	Introduction to C programming	Blotchet-Halls
33	Introduction to C programming	Gatsy
34	Introduction to C programming	Geralt
35	Introduction to C programming	Greene
36	Introduction to C programming	Hunter
37	Introduction to C programming	Jack
38	Introduction to C programming	Locksley
39	Introduction to C programming	Mufasa
40	Introduction to C programming	Sam
41	Introduction to C programming	Taco
42	Introduction to C programming	Triss
43	Introduction to C programming	White
44	Introduction to C programming	Yennefer
45	Introduction to C programming	del Castillo
46	Introduction to Computers	Al
47	Introduction to Computers	Blotchet-Halls
48	Introduction to Computers	Gatsy
49	Introduction to Computers	Geralt
50	Introduction to Computers	Greene
51	Introduction to Computers	Hunter
52	Introduction to Computers	Jack
53	Introduction to Computers	Locksley
54	Introduction to Computers	Mufasa
55	Introduction to Computers	Sam

55	Introduct	ion to Com	puters	Sam
56	Introduct	ion to Com	puters	Taco
57	Introduct	ion to Com	puters	Triss
58	Introduct	ion to Com	puters	White
59	Introducti	ion to Com	puters	Yennefer
60	Introduct	ion to Com	puters	del Castillo
61	Operating	systems		Al
62	Operating	systems		Blotchet-Halls
63	Operating	systems		Gatsy
64	Operating	systems		Geralt
65	Operating	systems		Greene
66	Operating	systems		Hunter
67	Operating	systems		Jack
68	Operating	systems		Locksley
69	Operating	systems		Mufasa
70	Operating	systems		Sam
71	Operating	systems		Taco
72	Operating	systems		Triss
73	Operating	systems		White
74	Operating	systems		Yennefer
75	Operating	systems		del Castillo
76	(null)			Al
77	(null)			Blotchet-Halls
78	(null)			Gatsy
79	(null)			Geralt
80	(null)			Greene
81	(null)			Hunter
82	(null)			Jack
	(null)			Locksley
	(null)			Mufasa
	(null)			Sam
	(null)			Taco
	(null)			Triss
88	(null)			White
89	(null)			Yennefer