Result

Intro:

Query Number 1:

Since S690 Jose has already taken 5 driving lessons, we can insert a road test for her.

```
Enter:
        1(Scheduling a Road Test)
        2 (Scheduling a Driving Lesson)
        3(Find the percentage of fail score of a specific school)
        4(Finds the list of student assoicated with a instructor)
        Exit(Exit the Program)
Enter RoadTest ID:
Enter Test Date (MM/DD/YYYY):
12/13/2019
Enter Score (Pass/Fail):
Fail
Enter State Examiner ID:
9821
Enter State Examiner Name:
Charlie
Enter Stein ID:
s690
Enter Vehicle Vin:
S543XD
Scheduled a Road Test!
```

		∯ TEST_DATE	∯ SCORE			∯ STEIN_ID	⊕ VIN
1	901	13-JUL-18	Fail	9821	Charlie	S711	S543XD
2	902	05-JUL-18	Fail	9821	Charlie	S711	S543XD
3	903	10-AUG-19	Pass	9821	Charlie	S711	S543XD
4	882	22-AUG-18	Fail	2902	Walter	S911	F94kIS
5	883	24-AUG-18	Fail	2905	Walter	S911	F94kIS
6	884	10-SEP-19	Pass	2906	Walter	S911	F94kIS
7	885	12-JUL-19	Pass	9821	Charlie	S140	S543XD
8	886	12-AUG-19	Fail	9821	Charlie	S555	S543XD
9	887	12-SEP-19	Fail	9821	Charlie	S678	S543XD
10	888	12-DEC-19	Fail	9821	Charlie	S690	S543XD
1 1	889	13-DEC-19	Fail	9821	Charlie	S690	S543XD

Query Number 2:

```
Enter:

1 (Scheduling a Road Test)
2 (Scheduling a Driving Lesson)
3 (Find the percentage of fail score of a specific school)
4 (Finds the list of student assoicated with a instructor)
Exit(Exit the Program)

2
Enter Lesson ID:
10034
Enter Date of Lesson(MM/DD/YYYY):
10/20/2019
Enter Stein ID of the Student:
8890
Enter Instructor's SSN:
911
Scheduled a Driving Lesson!
```

20	10020	20-DEC-19	S555	711
21	10021	16-JUN-18	S911	711
22	10022	16-AUG-18	S911	711
23	10023	20-DEC-19	S555	711
24	10024	20-DEC-19	S555	711
25	10025	20-DEC-19	S555	711
26	10026	20-DEC-19	S678	911
27	10027	22-DEC-19	S678	911
28	10028	24-DEC-19	S678	911
29	10029	25-DEC-19	S678	911
30	10030	17-0CT-19	S690	711
31	10031	19-0CT-19	S690	711
32	10032	20-0CT-19	S690	711
33	10033	28-0CT-19	S690	711
→ 34	10034	20-0CT-19	S890	911

Query Number 3:

For Driving School ID 1

Query Number 4:

For Instructor SSN 711

```
Enter:
        1 (Scheduling a Road Test)
        2 (Scheduling a Driving Lesson)
        3(Find the percentage of fail score of a specific school)
        4 (Finds the list of student assoicated with a instructor)
        Exit (Exit the Program)
Enter Instructor SSN:
711
Students that have not yet passed are:
1.Ryan
2.Jose
     For Instructor SSN 911
Enter:
        1 (Scheduling a Road Test)
        2 (Scheduling a Driving Lesson)
        3(Find the percentage of fail score of a specific school)
        4(Finds the list of student assoicated with a instructor)
        Exit(Exit the Program)
Enter Instructor SSN:
Students that have not yet passed are:
1.Heather
```

(Bonus)

Explain Plan for Query Number 3:

	♦	PLAN_TABLE_OUTPUT							
1	Ρ.	lan :	has	sh value: 237953111					
2									
3	-								
4	1	Id	١	Operation	١	Name			
5	-								
6	I	0	١	SELECT STATEMENT	I	I			
7	I	1	١	SORT AGGREGATE	١	l			
8	1	2	١	NESTED LOOPS	١	1			
9	1	3	١	NESTED LOOPS	١	I			
10	I	4	١	HASH JOIN	١	l			
11	I	5	١	INDEX FULL SCAN	١	ROADTEST_FK_SCORE_INDEX			
12	I	6	١	TABLE ACCESS FULL	١	STUDENT			
13	I	7	١	INDEX RANGE SCAN	١	INSTRUCTOR_FK_INDEX			
14	I	8	١	TABLE ACCESS BY INDEX ROWID	١	INSTRUCTOR			
15	I	9	١	SORT AGGREGATE	I	I			
16	I	10	١	HASH JOIN	I	I			
17	1	11	١	NESTED LOOPS	١	I			
18	I	12	١	NESTED LOOPS	١	I			
19	1	13	١	TABLE ACCESS FULL	١	STUDENT			
20	1	14	١	INDEX RANGE SCAN	١	INSTRUCTOR_FK_INDEX			
21	1	15	١	TABLE ACCESS BY INDEX ROWID	H	INSTRUCTOR			
22	1	16	١	INDEX FULL SCAN	I	ROADTEST_FK_SCORE_INDEX			
23	1	17	١	HASH UNIQUE	١	I			
24	1	18	١	INDEX FULL SCAN	١	ROADTEST_FK_SCORE_INDEX			
25	_								

Explain Plan for Query Number 4

1	Plan hash value: 613603769					
2						
3						
4	Id Operation Name	1				
5						
6	0 SELECT STATEMENT	1				
7	1 HASH GROUP BY	I				
8	2 NESTED LOOPS	1				
9	3 HASH JOIN ANTI	1				
10	4 TABLE ACCESS BY INDEX ROWID STUDENT	1				
11	5 INDEX RANGE SCAN STUDENT_FK_INDEX	I				
12	6 INDEX FULL SCAN ROADTEST_FK_SCORE_INDEX	I				
13	7 INDEX RANGE SCAN ROADTEST_FK_SCORE_INDEX	I				
14						