GLA UNIVERSITY, MATHURA

DATABASE MANAGEMENT SYSTEM

ASSIGNMENT

Submitted to -

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Submitted by-

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2415000426

SC

15

QUERY -1

List the student's name, dob from student table

ASSIGNMENT 1_2415000893.sql*

```
27  insert into Student (sID  ,  sName  ,GPA  , sizeHS  , DoB  )values (543 ,'C
28
29
30
31  SELECT sName , Dob from Student ;
32
33  SELECT sName from Student where GPA > 3.7;
```

Query result | Script output | DBMS output | Explain Plan | SQL history

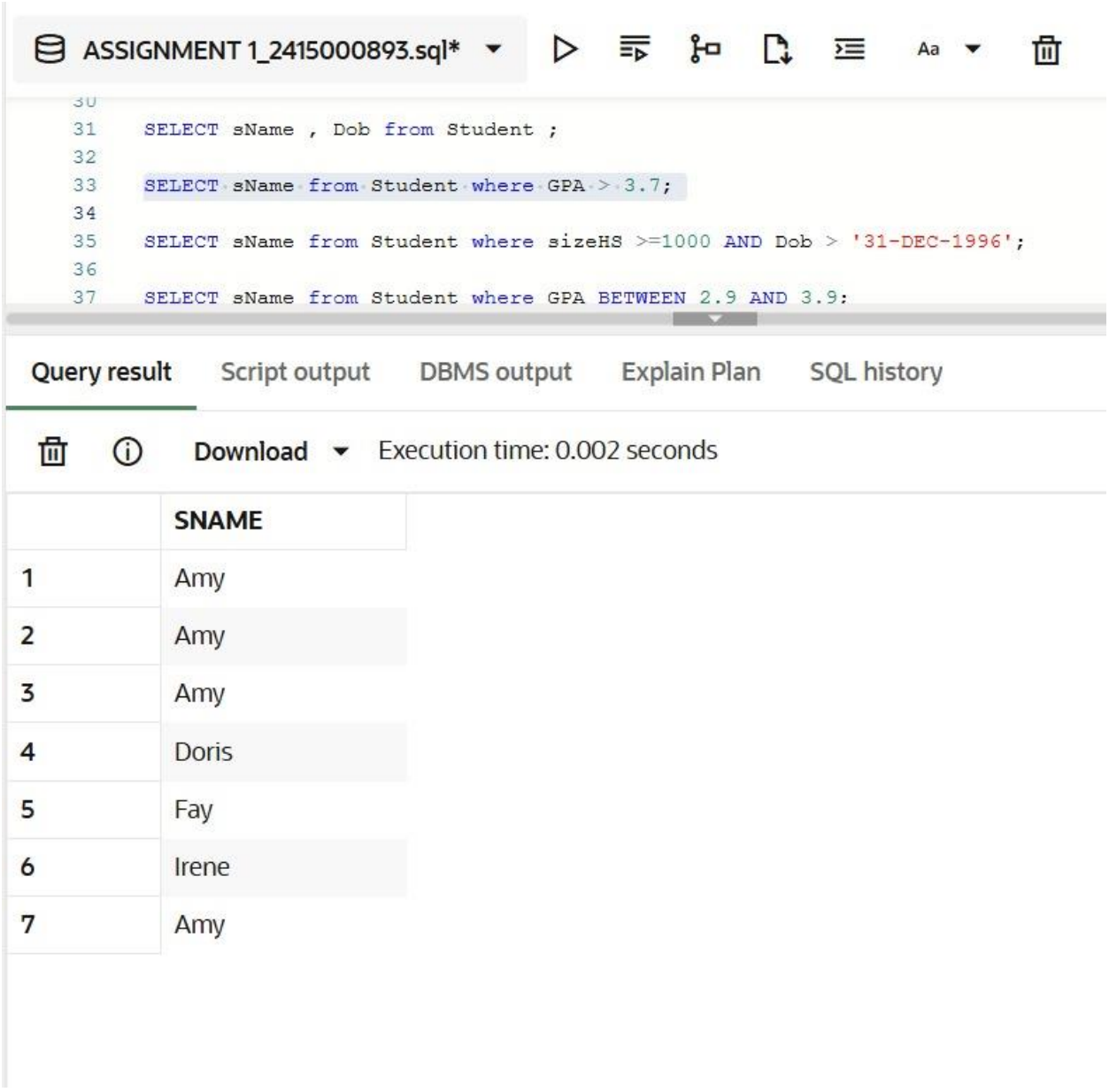
Download | Execution time: 0.004 seconds

	SNAME	DOB
5	Amy	6/26/1996, 12:00:0(
6	Bob	4/7/1995, 12:00:00
7	Craig	2/4/1995, 12:00:00
8	Doris	7/24/1997, 12:00:0(
9	Edward	12/21/1996, 12:00:(
10	Fay	8/27/1996, 12:00:0(
11	Gary	10/8/1996, 12:00:0(
12	Helen	3/27/1997, 12:00:0(
13	Irene	3/7/1996, 12:00:00
14	Jay	8/8/1998, 12:00:00

Craig

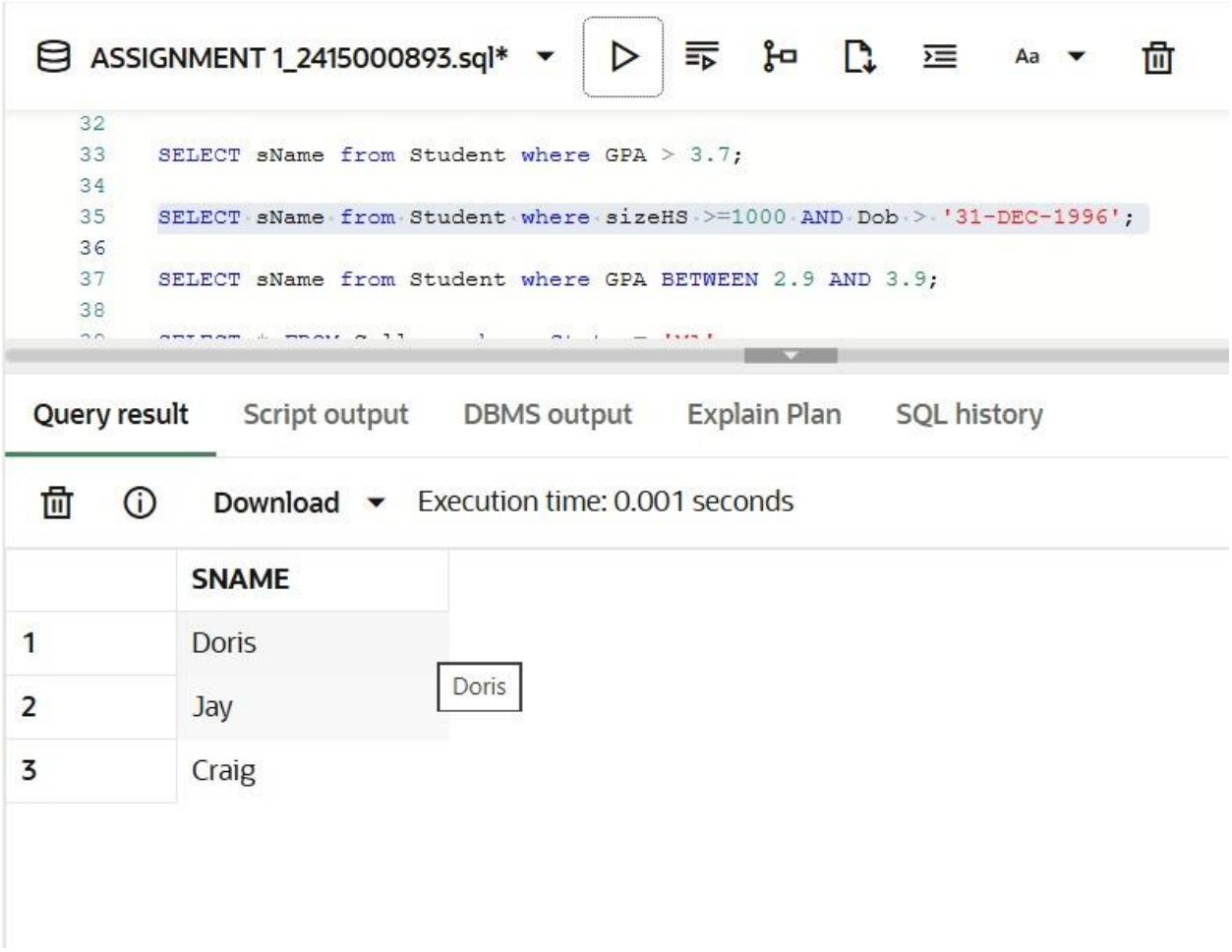
QUERY-2

List the name of student scoring more than 3.7 in GPA.



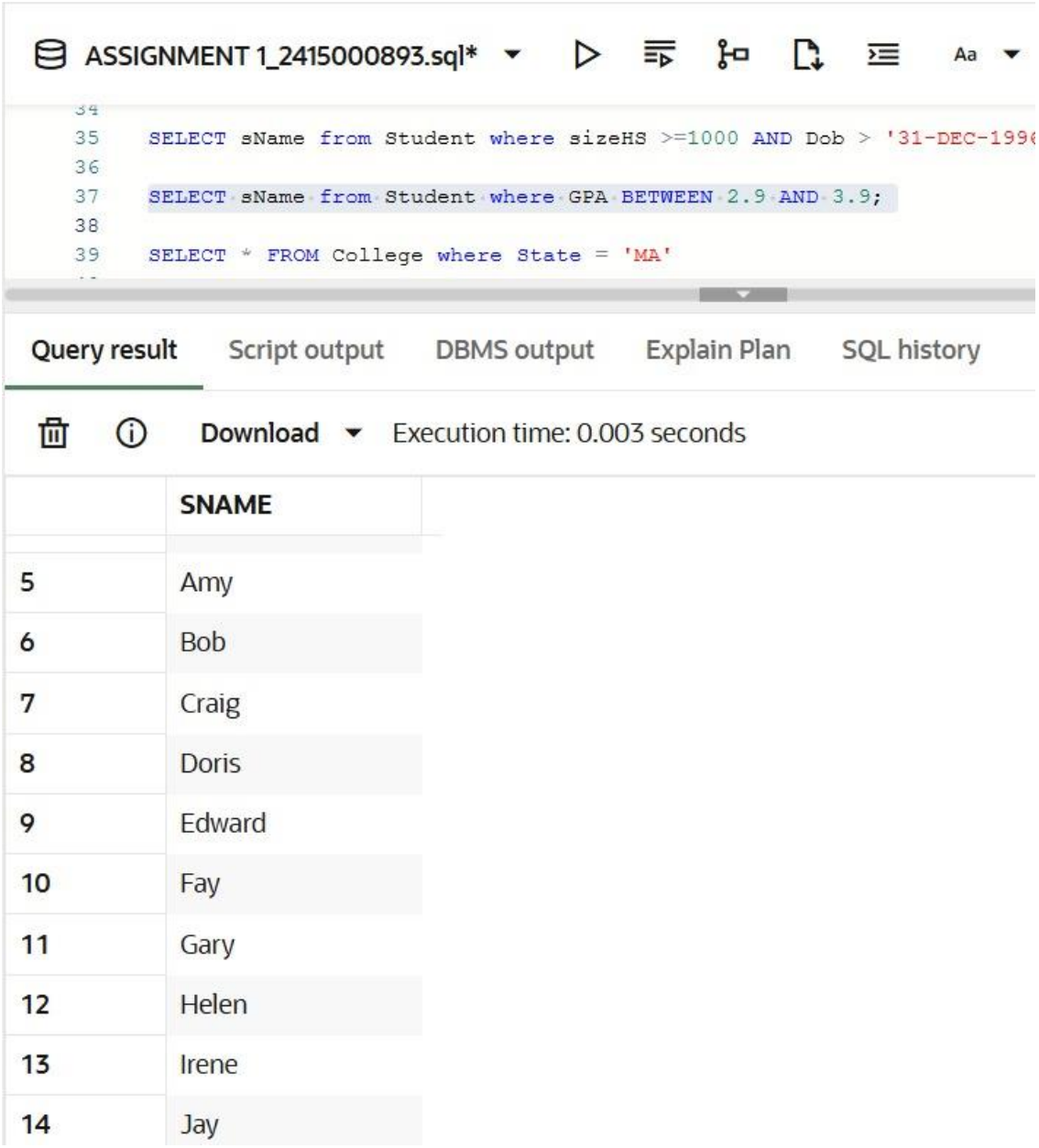
QUERY –3

List the name of student whose High School size is at least 1000 and born after 1996



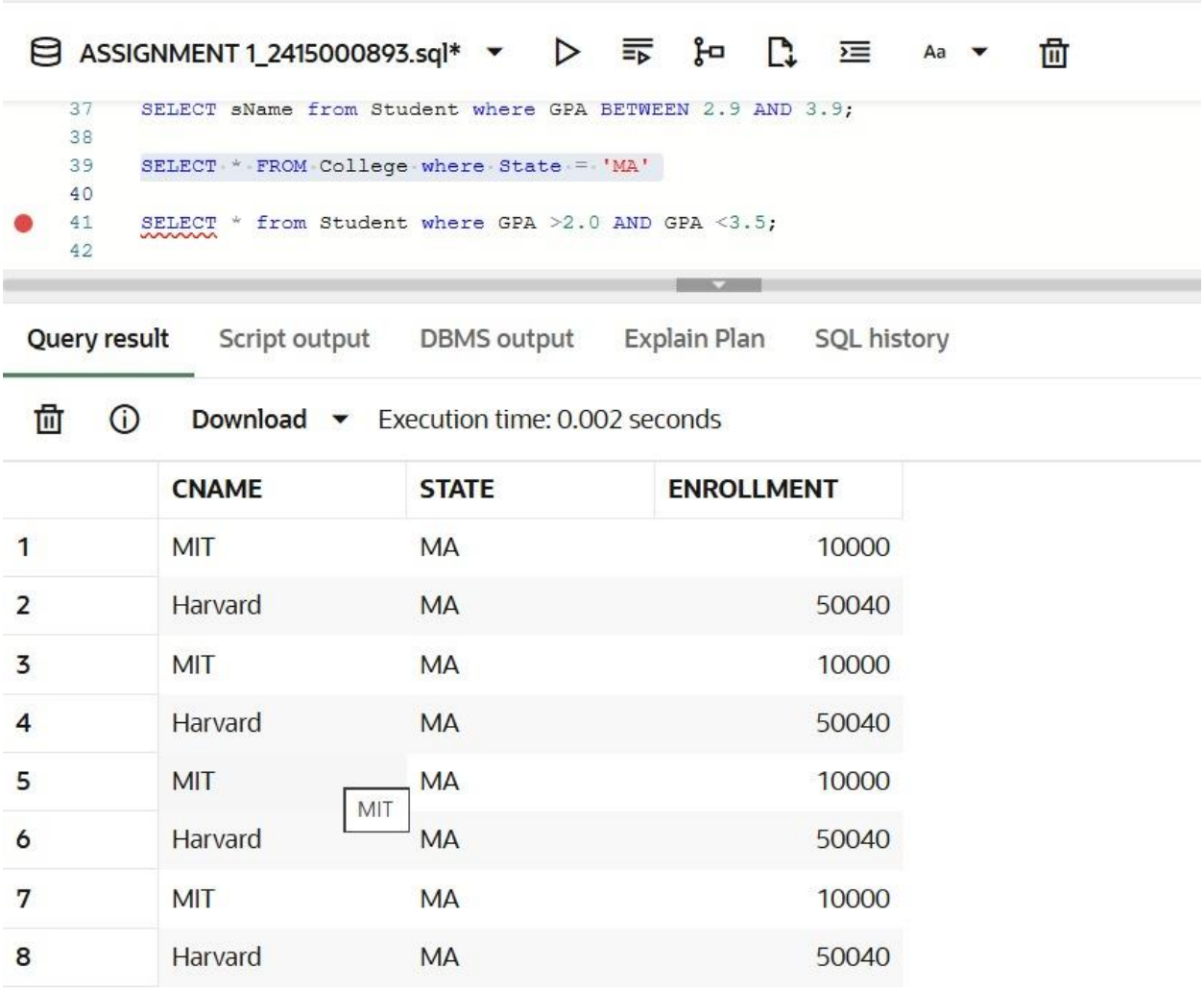
QUERY –4

List the name of student who are scoring GPA in between 2.9 and 3.9



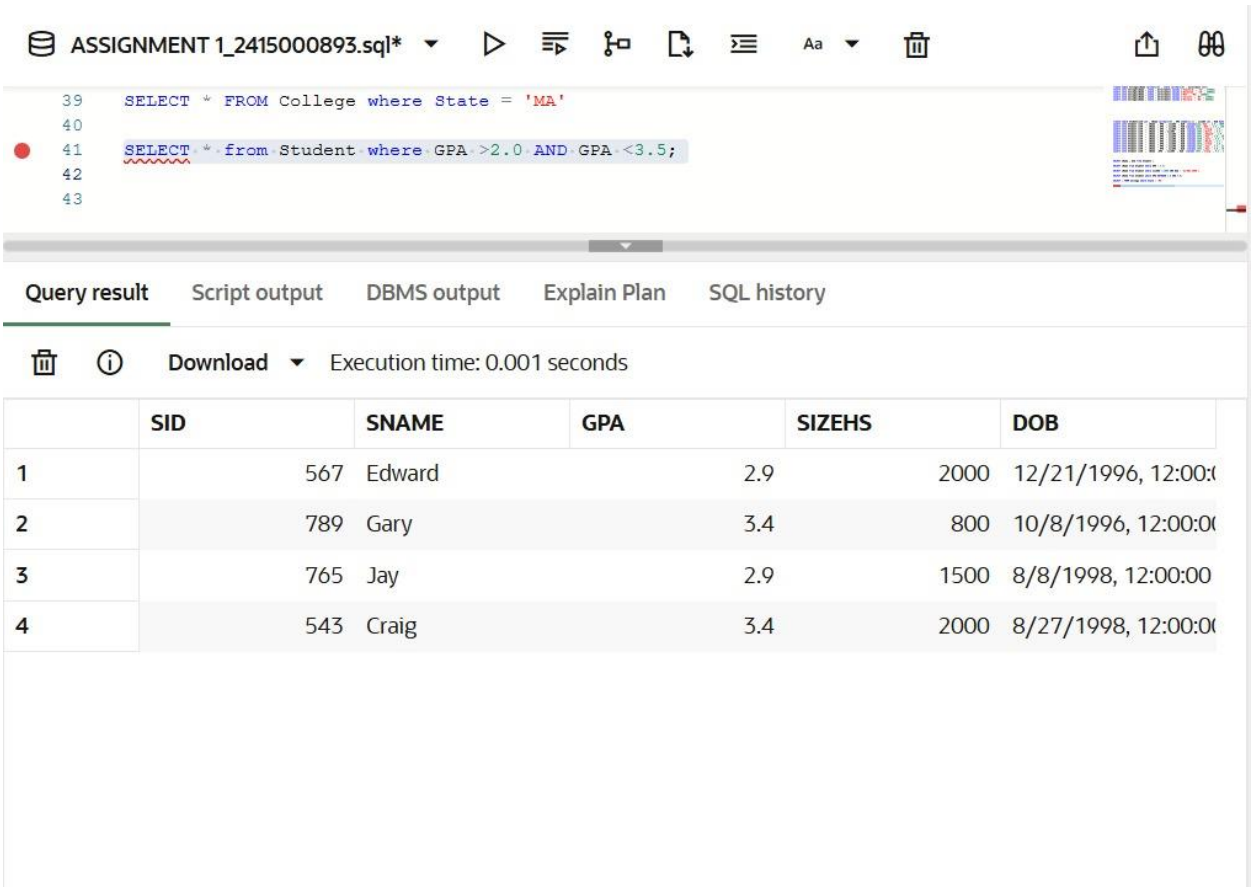
QUERY-5

List all the details of colleges situated in MA.



QUERY-6

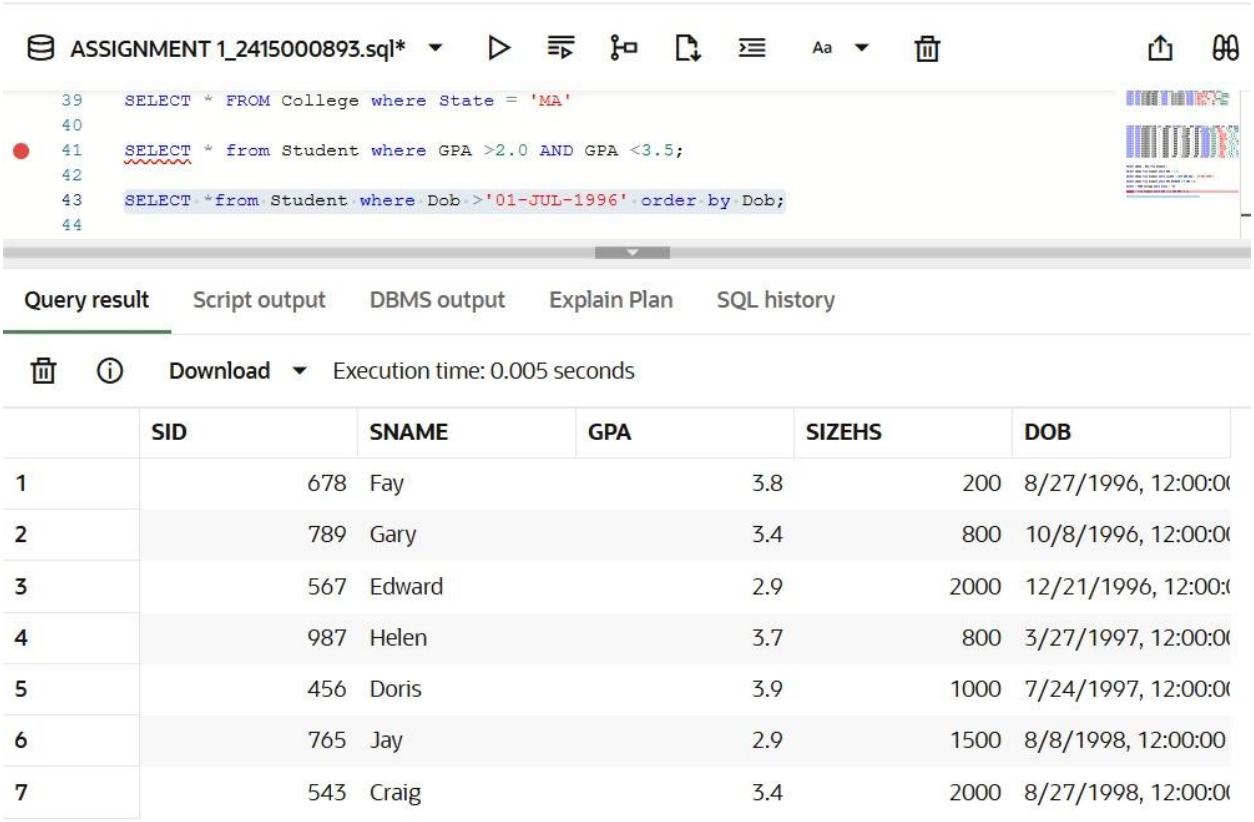
List the students who are scored more than 2.0 but less than 3.5.



	SID	SNAME	GPA	SIZEHS	DOB
1	567	Edward	2.9	2000	12/21/1996, 12:00:(
2	789	Gary	3.4	800	10/8/1996, 12:00:0(
3	765	Jay	2.9	1500	8/8/1998, 12:00:00
4	543	Craig	3.4	2000	8/27/1998, 12:00:0(

QUERY-7

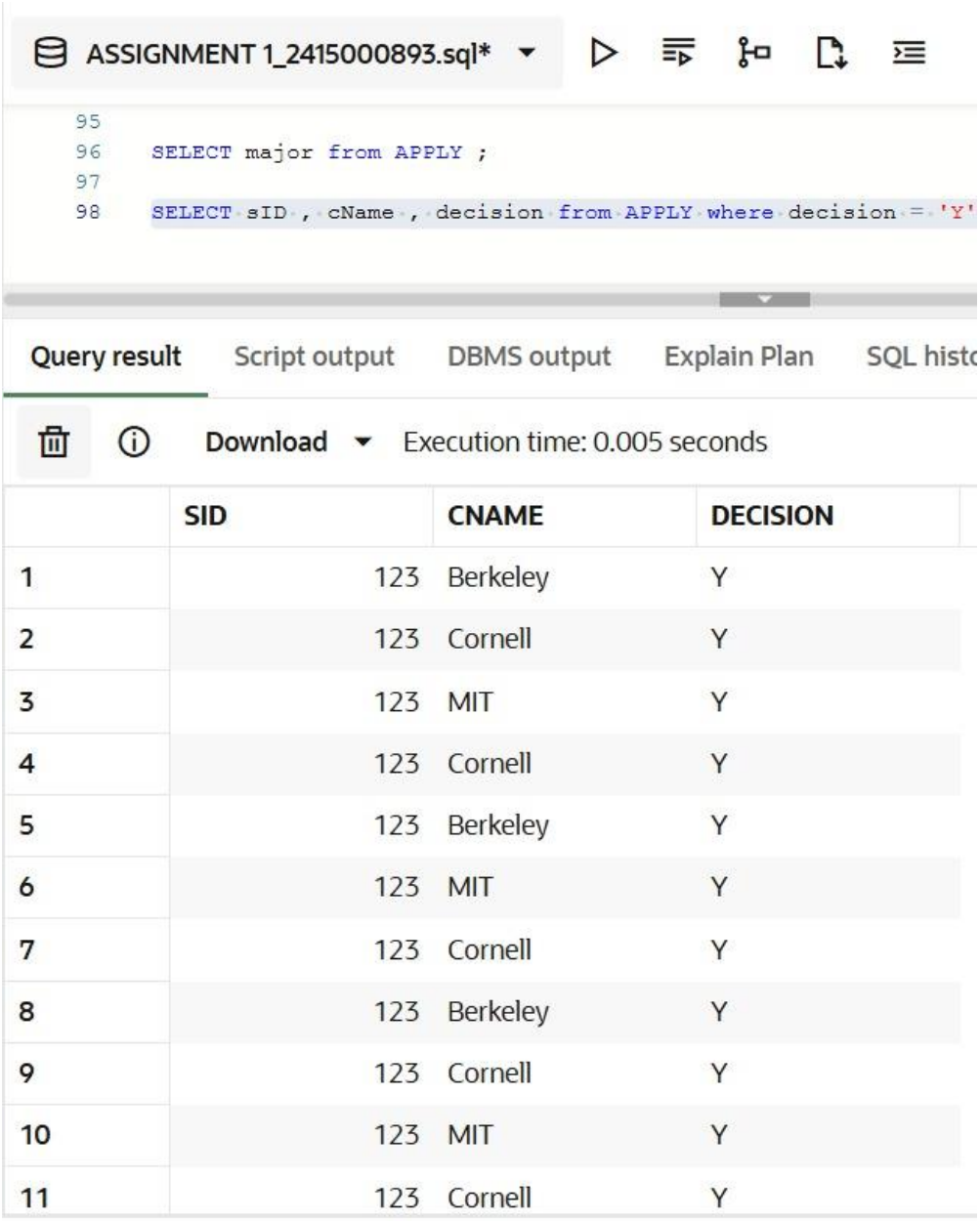
List the students who have born after 1st Jul 96 in the order of the Date of Birth.



	SID	SNAME	GPA	SIZEHS	DOB
1	678	Fay	3.8	200	8/27/1996, 12:00:0(
2	789	Gary	3.4	800	10/8/1996, 12:00:0(
3	567	Edward	2.9	2000	12/21/1996, 12:00:(
4	987	Helen	3.7	800	3/27/1997, 12:00:0(
5	456	Doris	3.9	1000	7/24/1997, 12:00:0(
6	765	Jay	2.9	1500	8/8/1998, 12:00:00
7	543	Craig	3.4	2000	8/27/1998, 12:00:0(

QUERY – 8

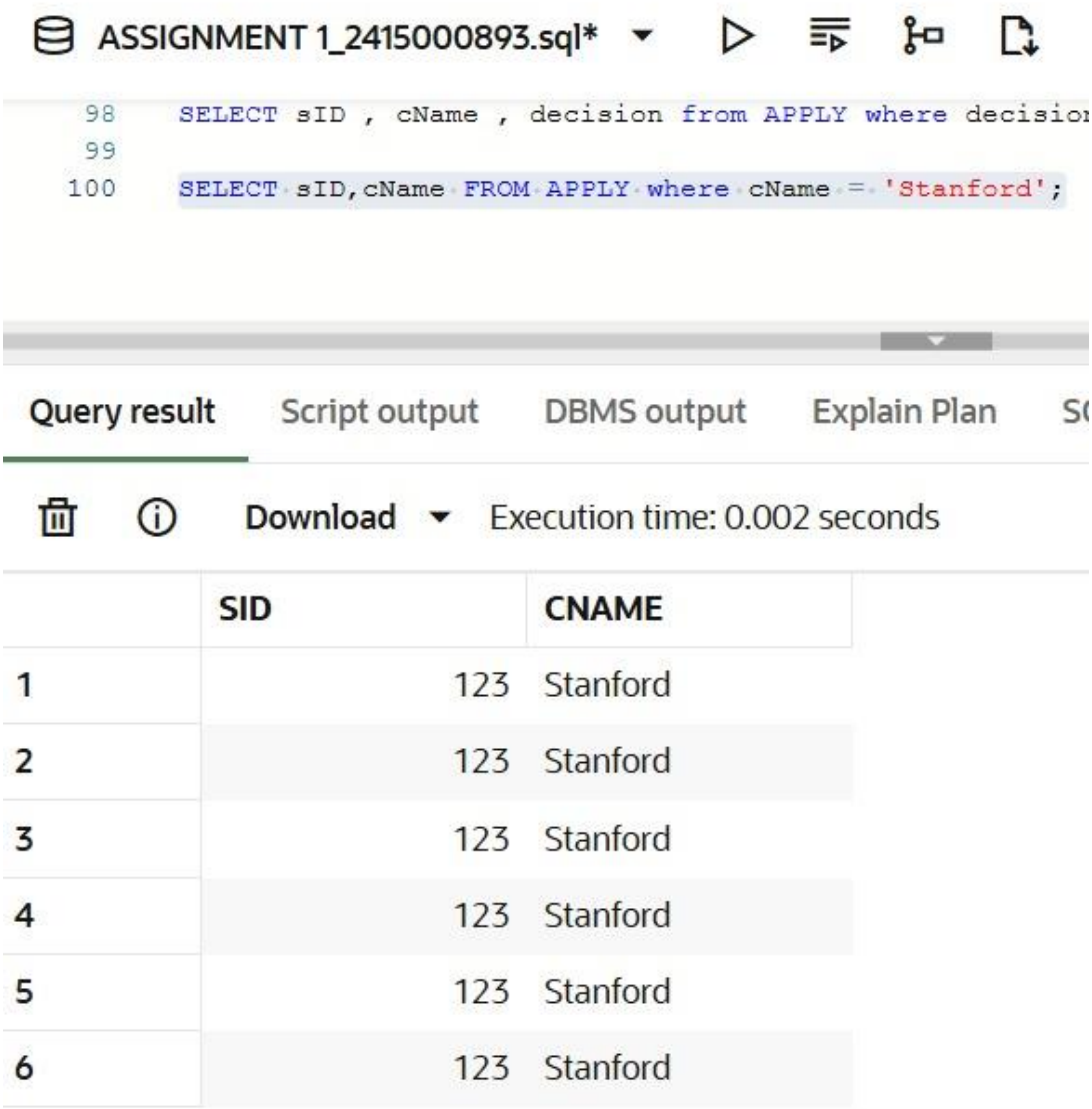
List the sID , cName , decision of application that are accepted.



	SID	CNAME	DECISION
1	123	Berkeley	Y
2	123	Cornell	Y
3	123	MIT	Y
4	123	Cornell	Y
5	123	Berkeley	Y
6	123	MIT	Y
7	123	Cornell	Y
8	123	Berkeley	Y
9	123	Cornell	Y
10	123	MIT	Y
11	123	Cornell	Y

QUERY – 9

List the sID , cName of applications which are filled by Stanford



QUERY – 10

List the colleges that have enrollment greater than 10001.

ASSIGNMENT 1_2415000893.sql*

```
42
43  SELECT *from Student where Dob >'01-JUL-1996' order by Dob;
44
45  SELECT cName from College where enrollment > 10001;
46
47
```

Query result | Script output | DBMS output | Explain Plan | SQL history

Download | Execution time: 0.008 seconds

	CNAME
1	Stanford
2	Berkeley
3	Cornell
4	Harvard
5	Stanford
6	Berkeley
7	Cornell
8	Harvard
9	Stanford
10	Berkeley
11	Cornell

QUERY – 11

List the colleges not in California

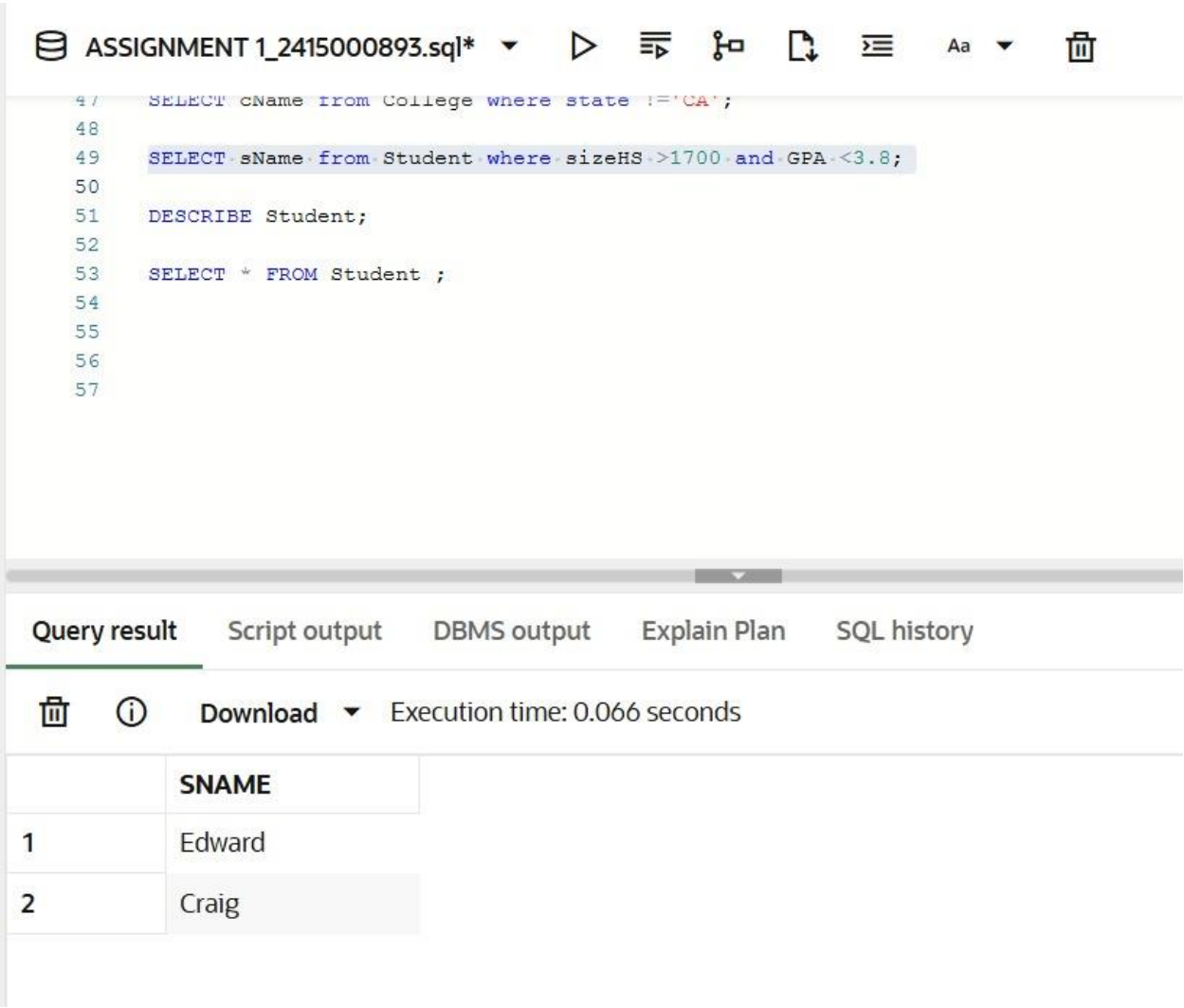
Query result | Script output | DBMS output | Explain Plan | SQL history

Download | Execution time: 0.004 seconds

	CNAME
1	MIT
2	Cornell
3	Harvard
4	MIT
5	Cornell
6	Harvard
7	MIT
8	Cornell
9	Harvard
10	MIT
11	Cornell

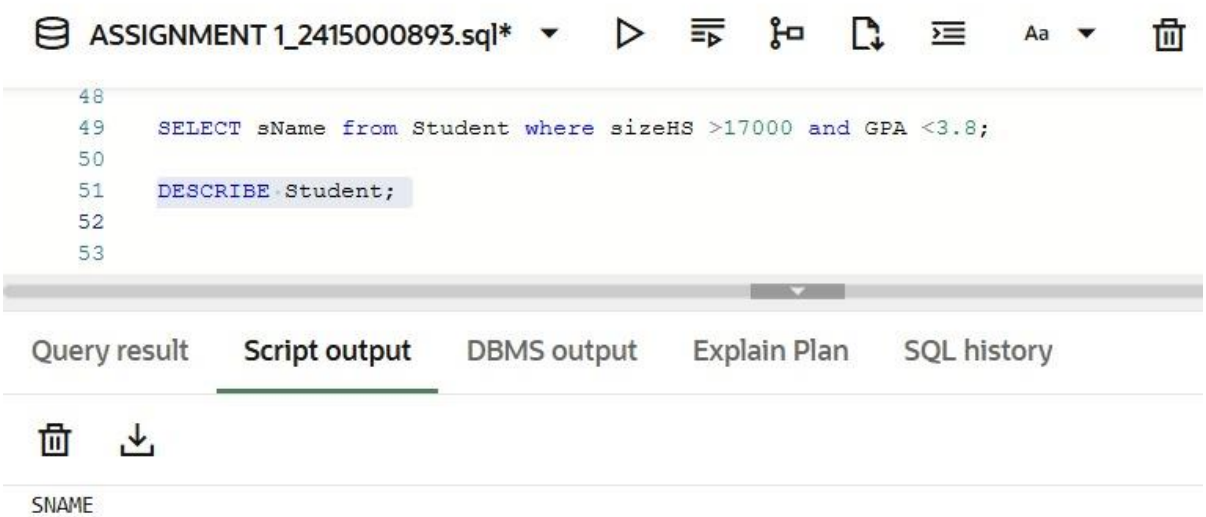
QUERY – 12

List names of all students who came from high school having size greater than 17000 and scored GPA less than 3.8.



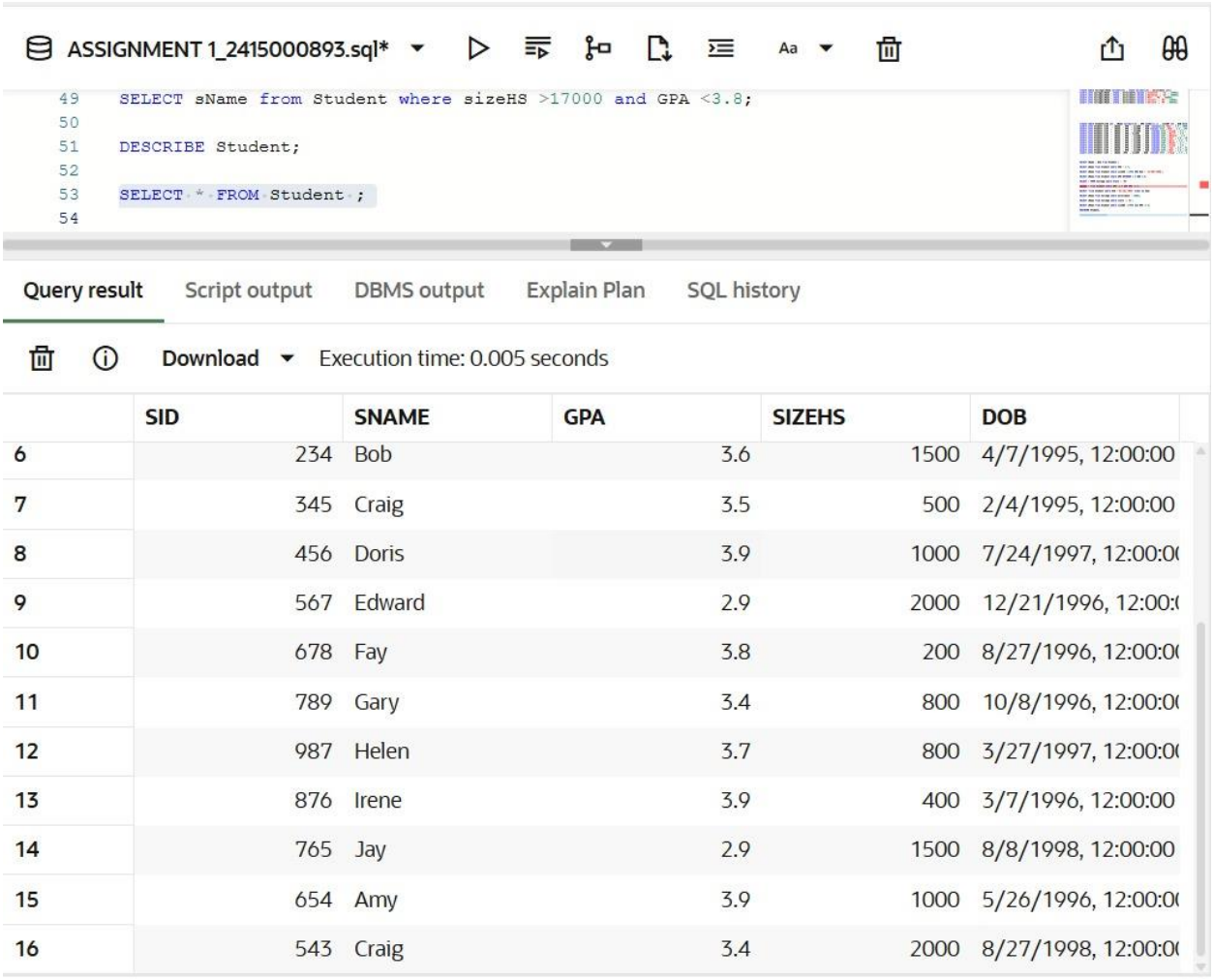
QUERY-13

Display the description of the Student table.


ASSIGNMENT 1_2415000893.sql*
Aa
48
49 SELECT sName from Student where sizeHS >17000 and GPA <3.8;
50
51 DESCRIBE Student;
52
53
Query result
Script output
DBMS output
Explain Plan
SQL history
SNAME
Amy
Amy
Amy
Doris
Fay
Irene
Amy
Elapsed: 00:00:00.005
7 rows selected.
SQL> DESCRIBE Student
Name Null? Type
SID NUMBER(38)
SNAME VARCHAR2(10)
GPA NUMBER(2,1)
SIZEHS NUMBER(38)
DOB DATE

QUERY-14

Display the details of all students.



	SID	SNAME	GPA	SIZEHS	DOB
6	234	Bob	3.6	1500	4/7/1995, 12:00:00
7	345	Craig	3.5	500	2/4/1995, 12:00:00
8	456	Doris	3.9	1000	7/24/1997, 12:00:0(
9	567	Edward	2.9	2000	12/21/1996, 12:00:(
10	678	Fay	3.8	200	8/27/1996, 12:00:0(
11	789	Gary	3.4	800	10/8/1996, 12:00:0(
12	987	Helen	3.7	800	3/27/1997, 12:00:0(
13	876	Irene	3.9	400	3/7/1996, 12:00:00
14	765	Jay	2.9	1500	8/8/1998, 12:00:00
15	654	Amy	3.9	1000	5/26/1996, 12:00:0(
16	543	Craig	3.4	2000	8/27/1998, 12:00:0(

QUERY-15

Display unique majors .

ASSIGNMENT 1_2415000893.sql*

```
92  UPDATE student SET GPA = GPA+1.5 where GPA<3.5 and
93
94  DELETE from Student where GPA < 3.2;
95
96  SELECT major from APPLY ;
```

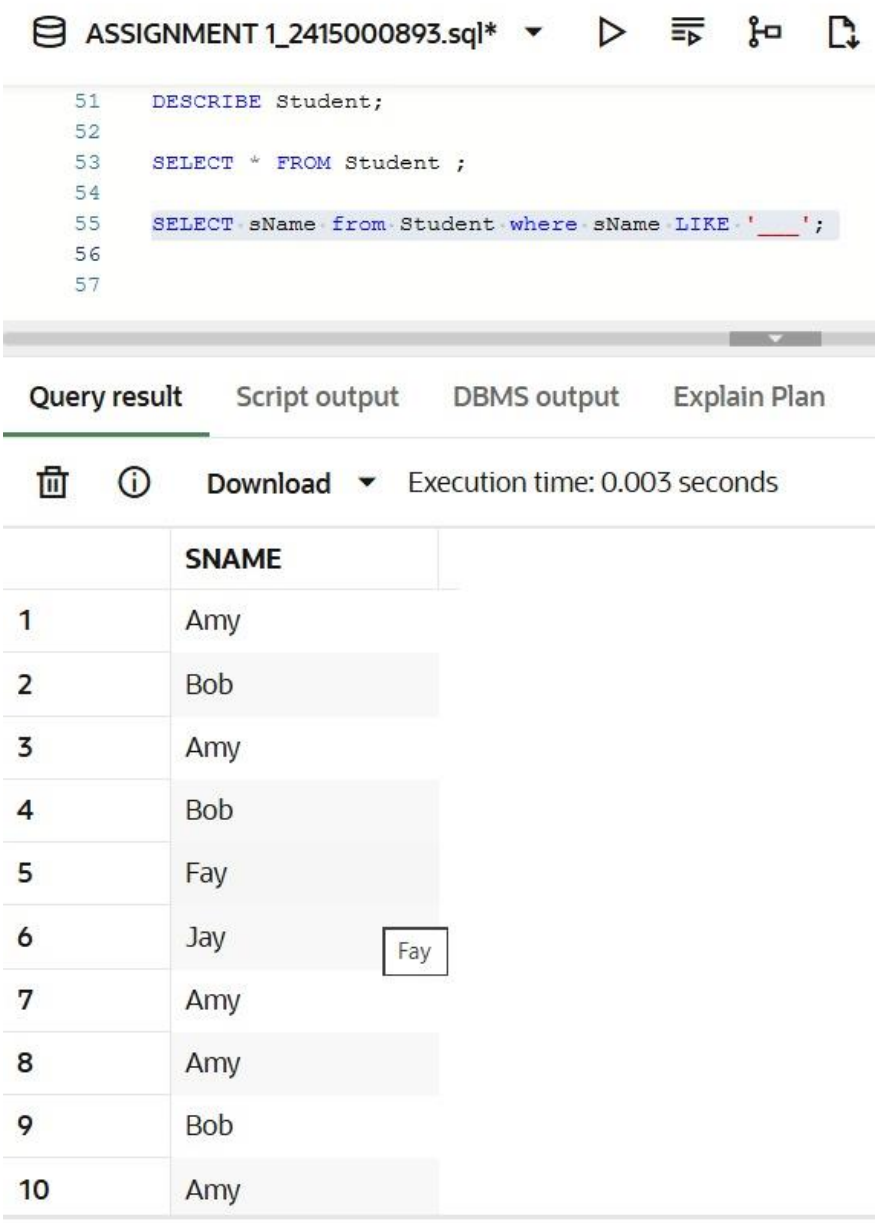
Query result | Script output | DBMS output | Explain Plan

Download | Execution time: 0.005 seconds

	MAJOR
1	CS
2	EE
3	biology
4	bioengineering
5	bioengineering
6	CS
7	EE
8	CS
9	biology
10	marine biology
11	history

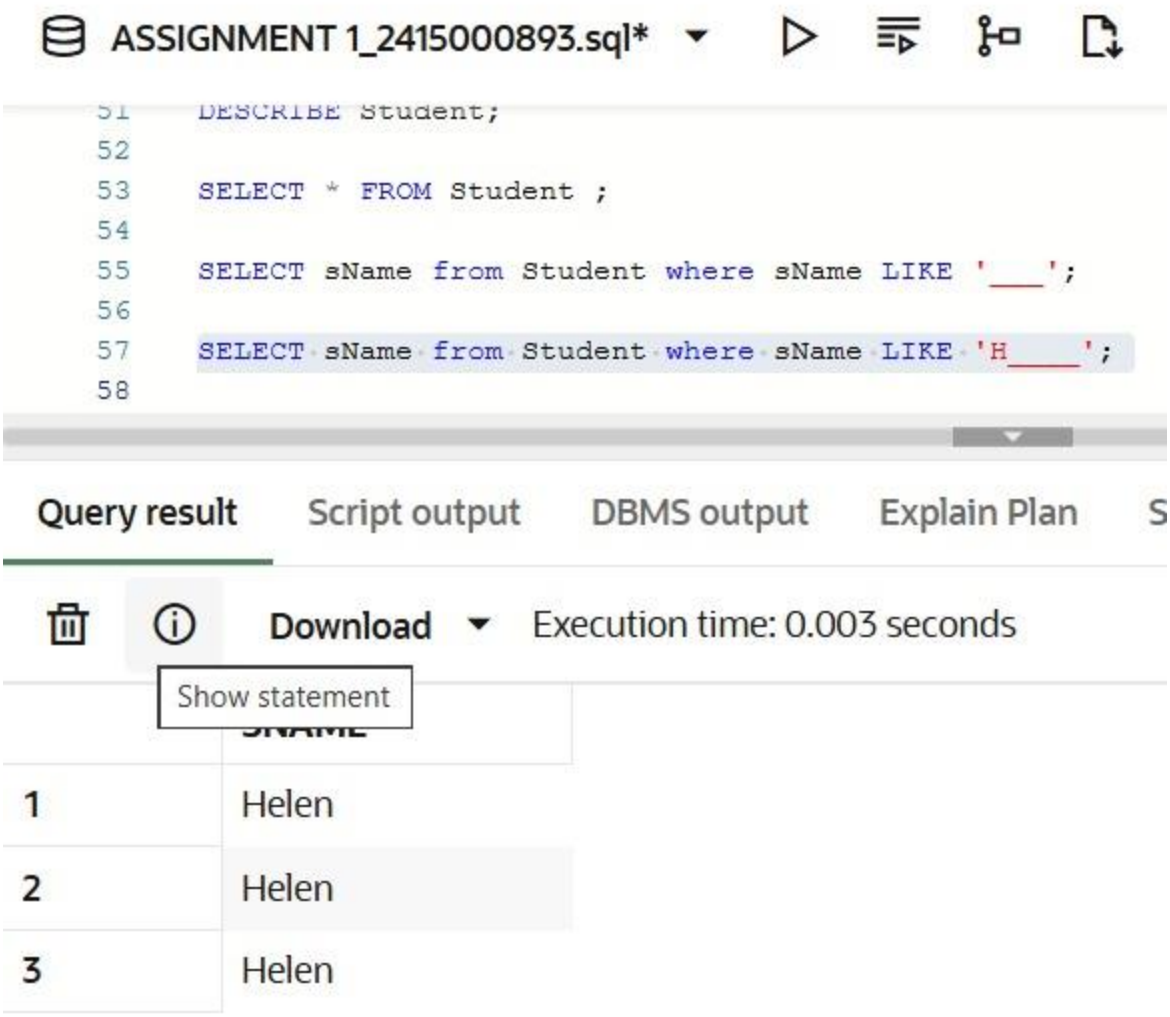
QUERY – 16

List the student names those are having 3 characters in their names.



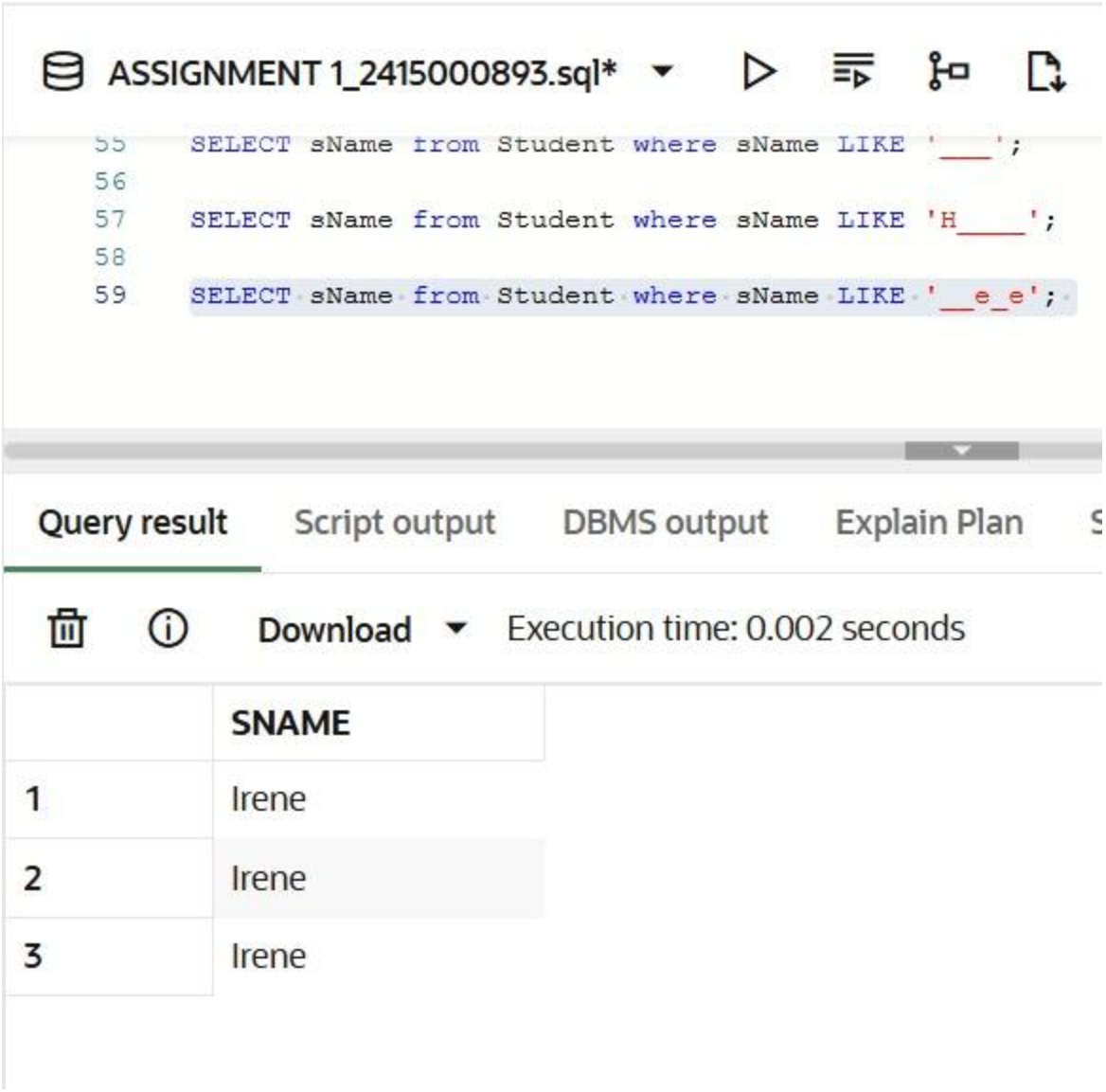
QUERY – 17

List the student names those are starting with ‘H’ and with 5 characters.



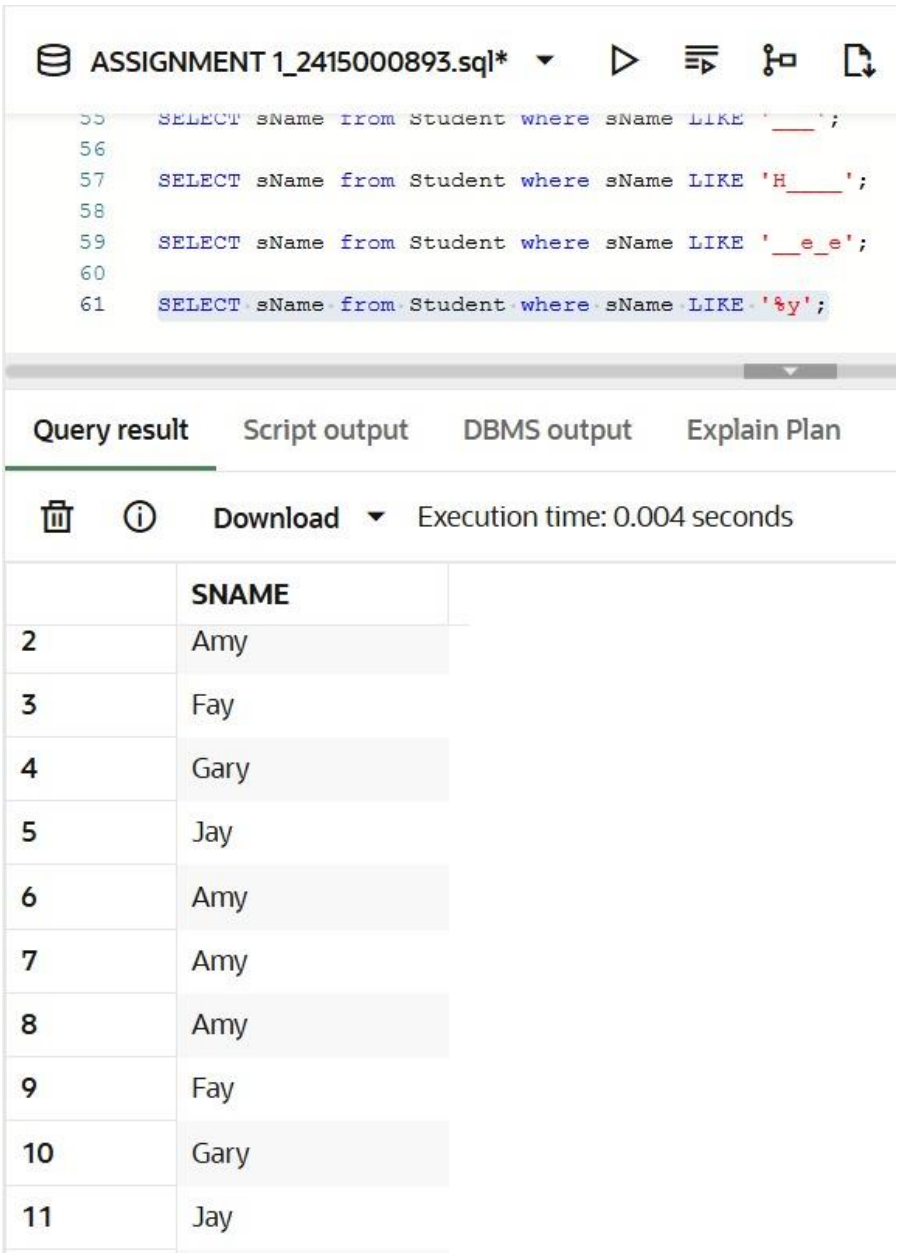
QUERY – 18

List the student names those are having third character and fifth character must be ‘e’.



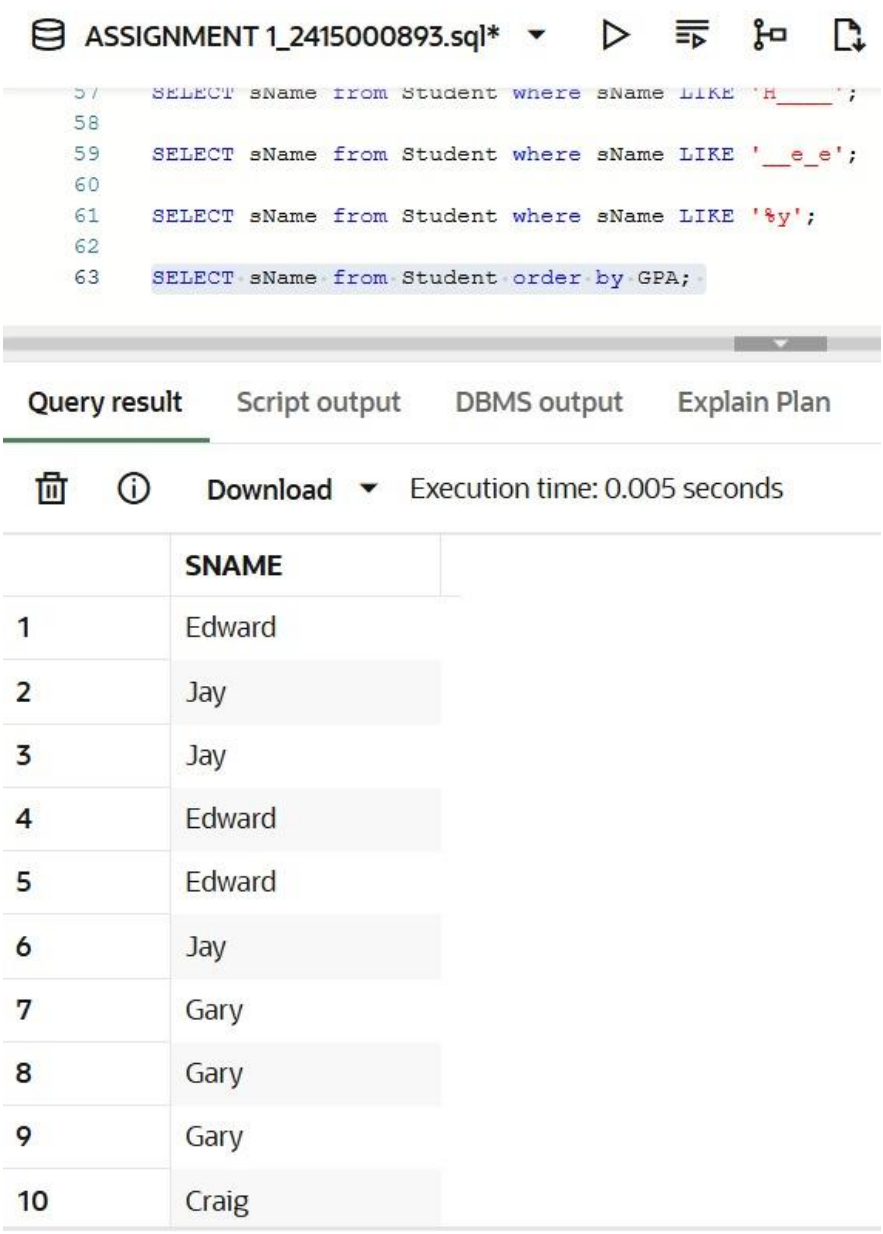
QUERY – 19

List the student names ending with ‘y’



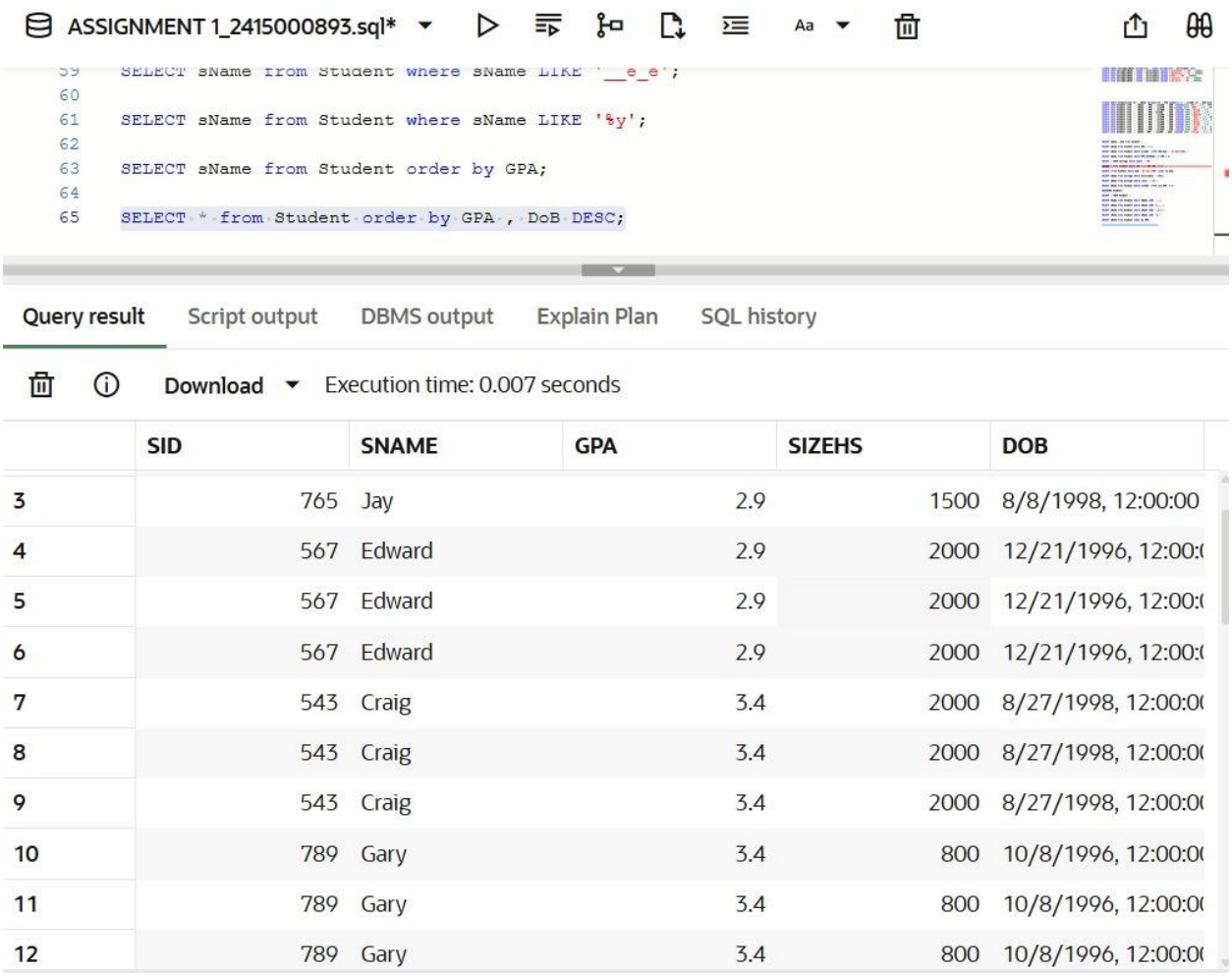
QUERY – 20

List the student in the order of their GPA .


ASSIGNMENT 1_2415000893.sql*
57 SELECT sName from Student where sName LIKE 'H____';
58
59 SELECT sName from Student where sName LIKE '__e_e';
60
61 SELECT sName from Student where sName LIKE '%y';
62
63 SELECT sName from Student order by GPA;
Query result
Script output
DBMS output
Explain Plan
Download
Execution time: 0.005 seconds
SNAME
1 Edward
2 Jay
3 Jay
4 Edward
5 Edward
6 Jay
7 Gary
8 Gary
9 Gary
10 Craig

QUERY – 21

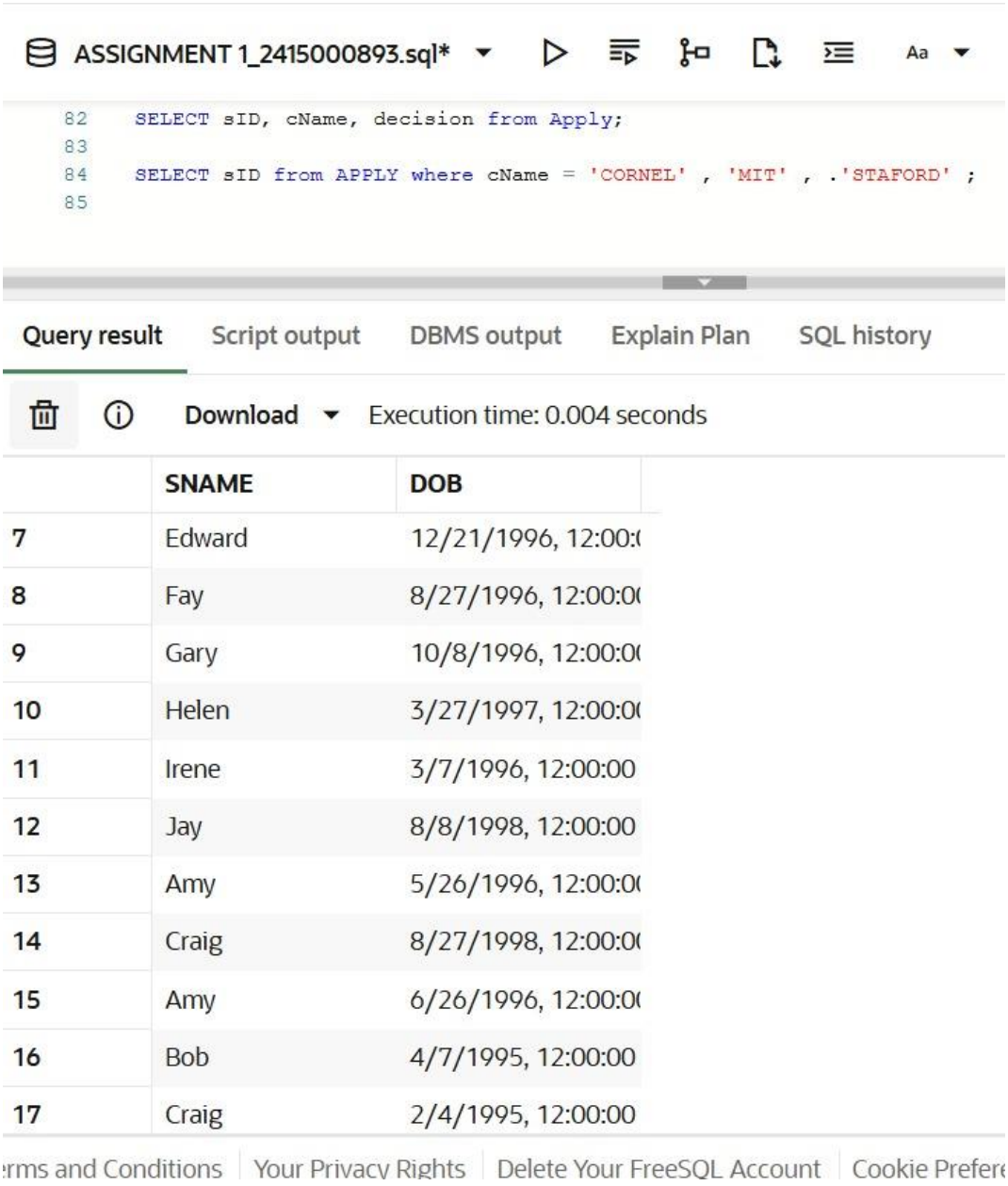
List the details of the students in order of the ascending of GPA and descending of DoB.



	SID	SNAME	GPA	SIZEHS	DOB
3	765	Jay	2.9	1500	8/8/1998, 12:00:00
4	567	Edward	2.9	2000	12/21/1996, 12:00:(
5	567	Edward	2.9	2000	12/21/1996, 12:00:(
6	567	Edward	2.9	2000	12/21/1996, 12:00:(
7	543	Craig	3.4	2000	8/27/1998, 12:00:0(
8	543	Craig	3.4	2000	8/27/1998, 12:00:0(
9	543	Craig	3.4	2000	8/27/1998, 12:00:0(
10	789	Gary	3.4	800	10/8/1996, 12:00:0(
11	789	Gary	3.4	800	10/8/1996, 12:00:0(
12	789	Gary	3.4	800	10/8/1996, 12:00:0(

QUERY – 22

List the sIDs of student who apply in either ‘Stanford’ , ‘Cornell’ or ‘MIT’ College .



QUERY – 23

Delete all applications filled at Stanford.

ASSIGNMENT 1_2415000893.sql*

```
82    SELECT sID, cName, decision from Apply;
83
84    SELECT sID from APPLY where cName = 'CORNEL' , 'MIT' , .'S
85
86    DELETE from APPLY   where cName = 'Stanford';
87
```

Query result | Script output | DBMS output | Explain Plan | SQL h

```
*Action:   Take the action that corresponds with the Cause
           1. Check that your SQL statement has no typos.
           2. Check Oracle Database documentation to find the
           correct syntax for the clause and update the problematic
           clause appropriately.
           3. Check Oracle Database documentation to find the correct
           syntax for the statement and remove the unsupported clause.
           4. Enter two single quotes instead of one to represent an
           apostrophe within a string.
*Params:   1) keyword_value
           keyword near the keyword causing the error. The keyword value
           may be truncated for readability if it is too long.
           2) previous_keyword_values: a sequence of keyword values that
           immediately precede the keyword_value in the command. The
           sequence of previous keyword values may be truncated if it is
           too long.
Error at Line: 1 Column: 44
```

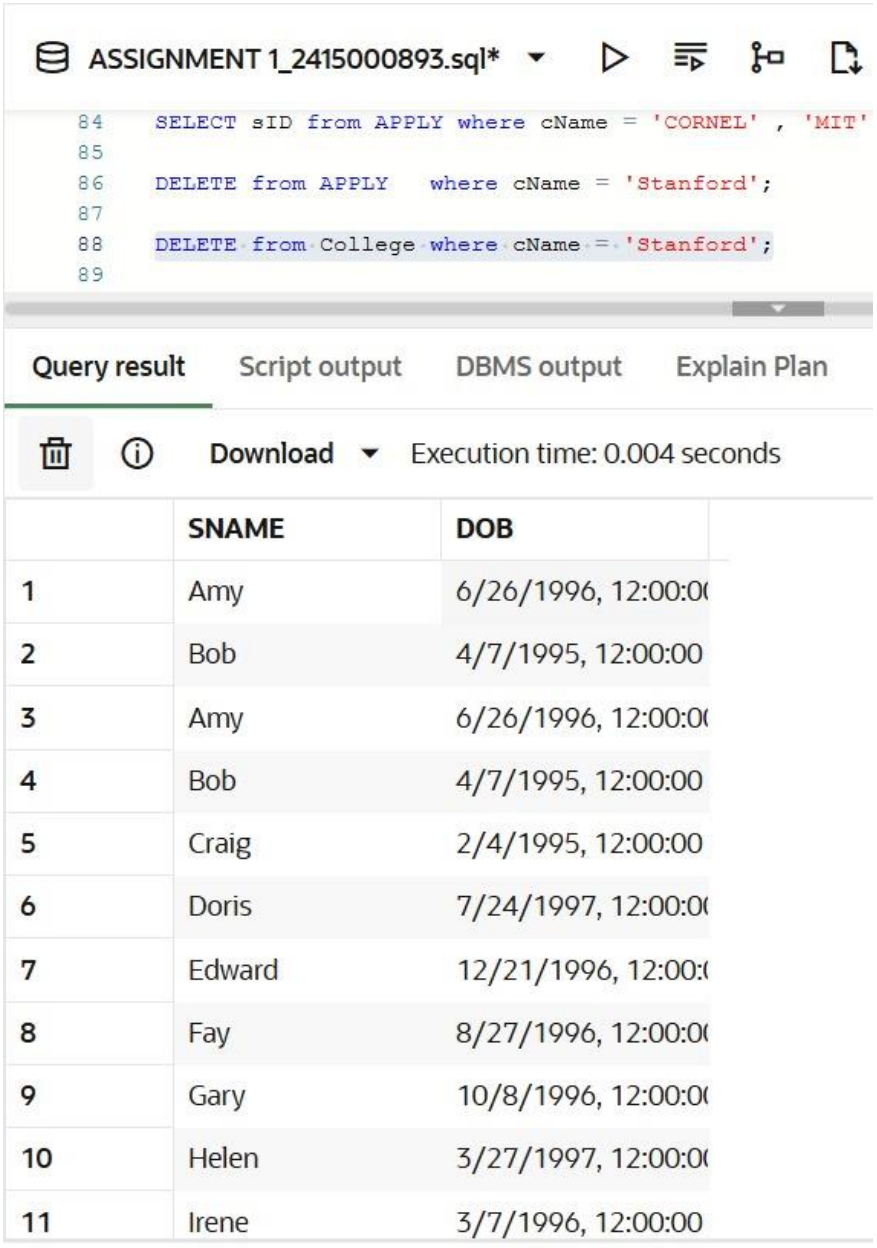
```
SQL> DELETE from APPLY   where cName = 'Stanford'


18 rows deleted.

Elapsed: 00:00:00.006
```

QUERY – 24

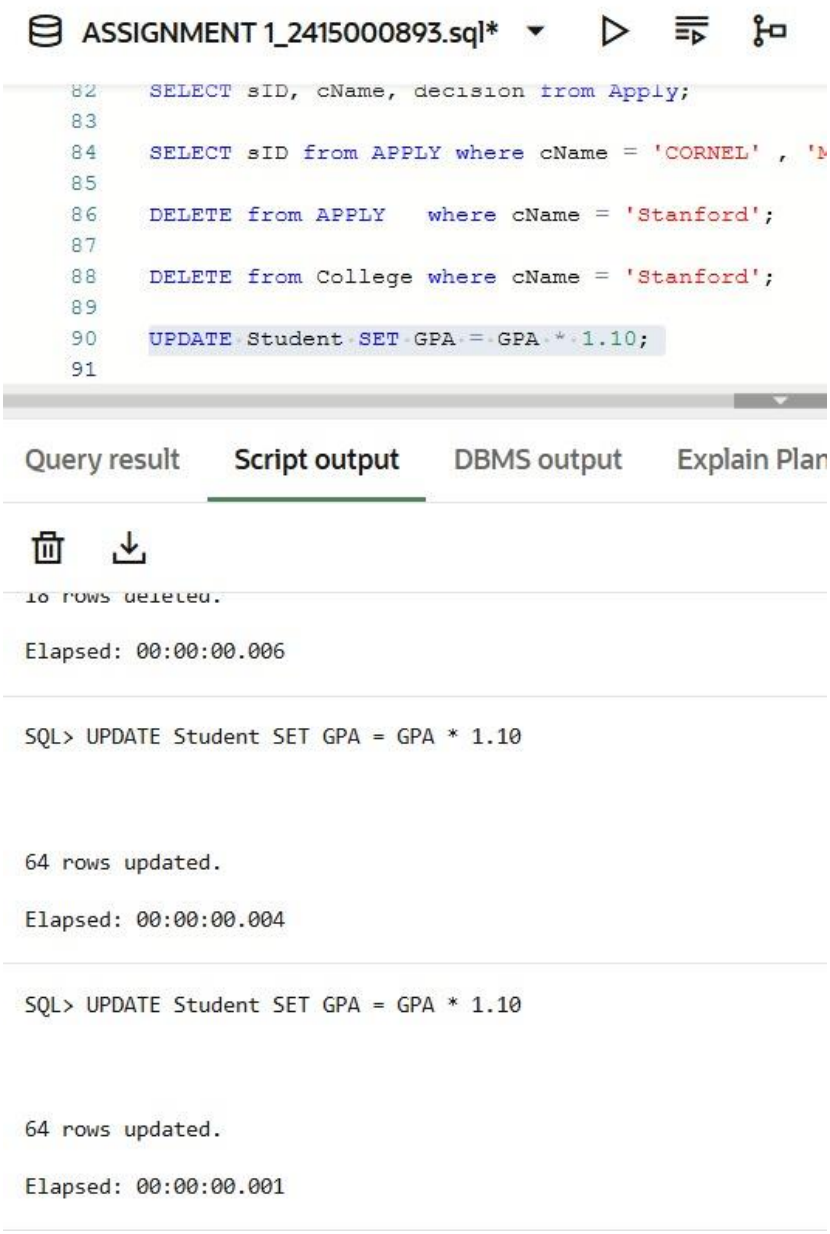
Delete the college Stanford from college table.



	SNAME	DOB
1	Amy	6/26/1996, 12:00:0(
2	Bob	4/7/1995, 12:00:00
3	Amy	6/26/1996, 12:00:0(
4	Bob	4/7/1995, 12:00:00
5	Craig	2/4/1995, 12:00:00
6	Doris	7/24/1997, 12:00:0(
7	Edward	12/21/1996, 12:00:(
8	Fay	8/27/1996, 12:00:0(
9	Gary	10/8/1996, 12:00:0(
10	Helen	3/27/1997, 12:00:0(
11	Irene	3/7/1996, 12:00:00

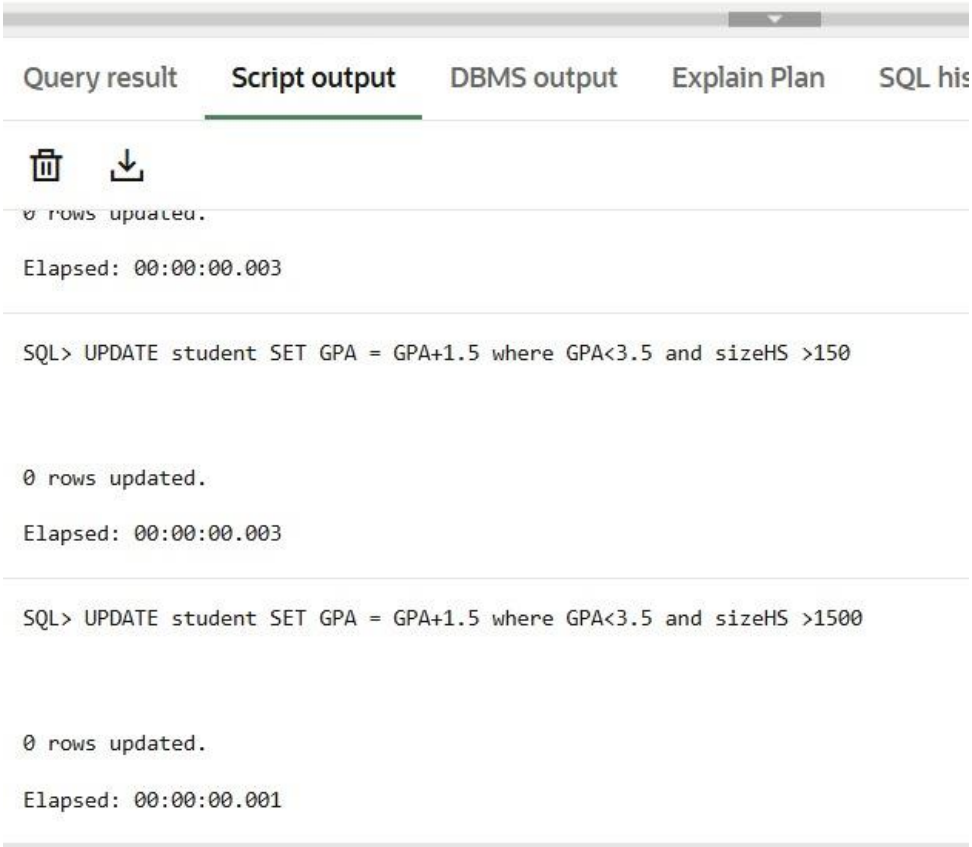
QUERY – 25

Modify the GPA of all students by giving 10% raise in their GPA .



QUERY – 26

Increment GPA by 1.5 for students whose GPA < 3.5 and HSsize >1500



QUERY – 27

Delete students who have scored less than 3.2 GPA.