**Name** ➔ *Laxman kumar Vashist*

**Class** ➔ *BTech. 2nd Year { E }*

**University RollNo.** ➔ *191500429*

**Class RollNo.** ➔ *'37'*

**Subject** ➔ *Database Management Systems Lab*

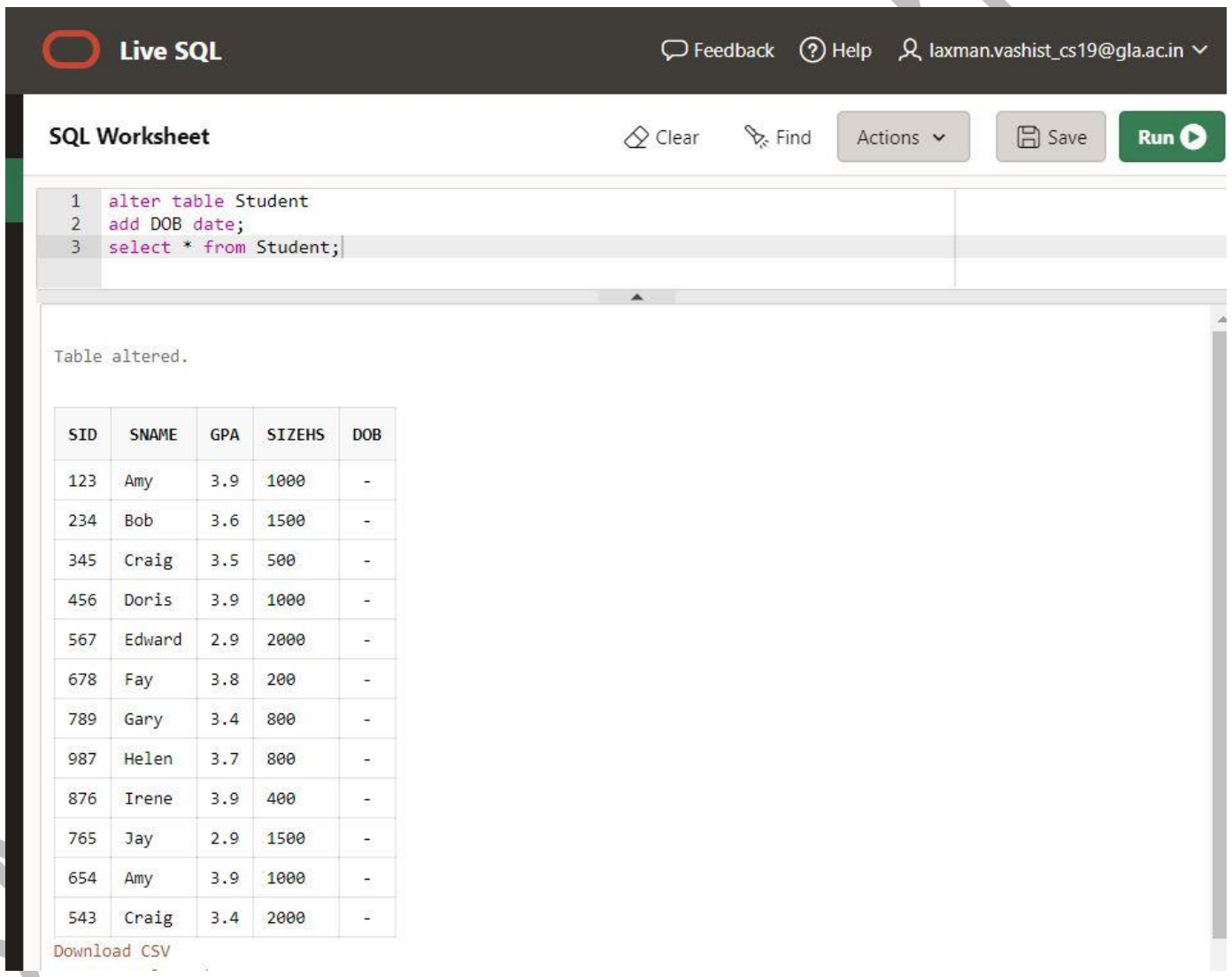
**Subject Code** ➔ *BCSC 0802*

**Subject Teacher** ➔ *MS. Gunjan Bharadwaj*

**QUS 1 ➔** Create a new column DoB in Student table. (Datatype will be date).

**CODE➔**

**======**



**Qus 2 ➔** Insert DoB for each Student in corresponding table using above instance of Student table.

**CODE ➔**

---

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SQL Worksheet | Clear | Find | Actions | Save | Run

```
1  update Student set DOB='26-Jun-96' where sid= 123;
2  update Student set DOB='7-Apr-95' where sid= 234;
3  update Student set DOB='4-Feb-95' where sid= 345;
4  update Student set DOB='24-Jul-97' where sid= 456;
5  update Student set DOB='21-Dec-96' where sid= 567;
6  update Student set DOB='27-Aug-96' where sid= 678;
7  update Student set DOB='8-Oct-96' where sid= 789;
8  update Student set DOB='27-Mar-97' where sid= 987;
9  update Student set DOB='7-Mar-96' where sid= 876;
10 update Student set DOB='8-Aug-98' where sid= 765;
11 update Student set DOB='26-May-96' where sid= 654;
12 update Student set DOB='27-Aug-98' where sid= 543;
13 select * from Student;
```

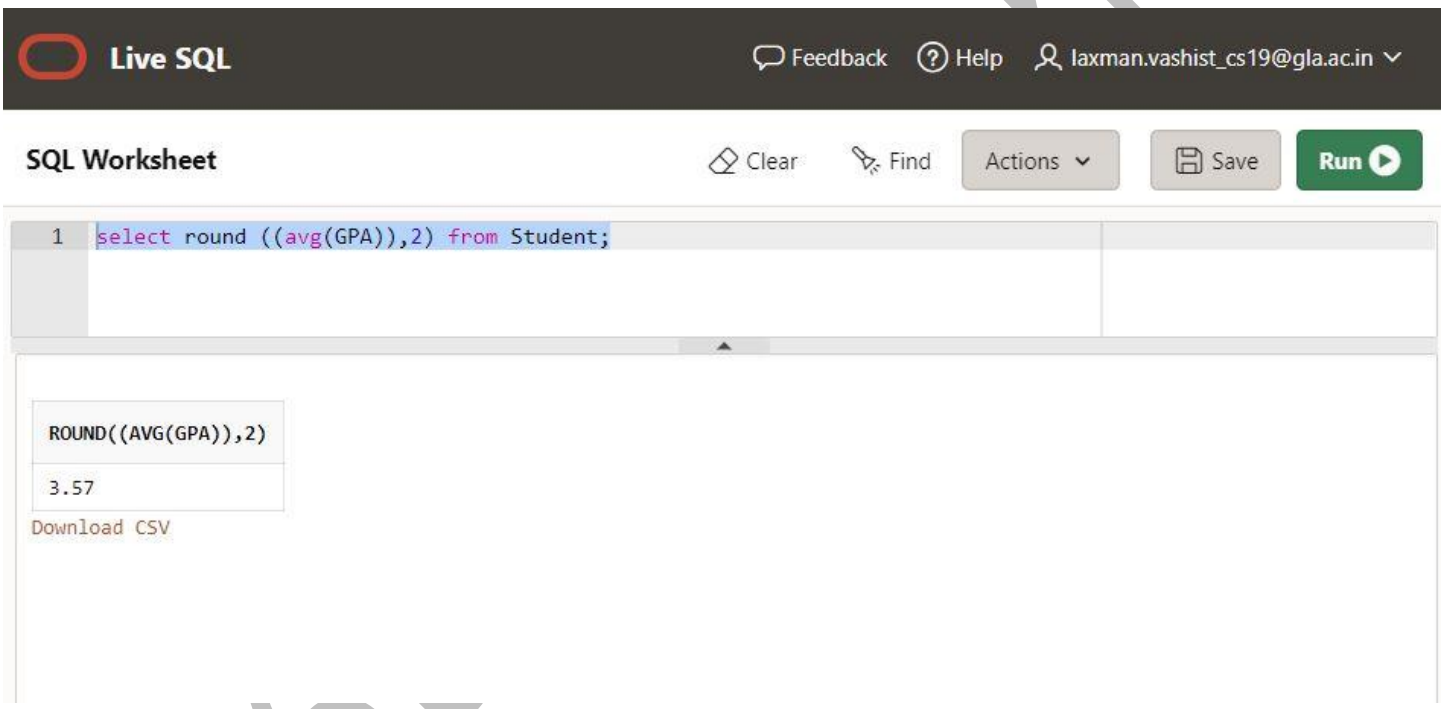
```
1 row(s) updated.
```

| SID | SNAME | GPA | SIZEHS | DOB |
|---|---|---|---|---|
| 123 | Amy | 3.9 | 1000 | 26-JUN-96 |
| 234 | Bob | 3.6 | 1500 | 07-APR-95 |
| 345 | Craig | 3.5 | 500 | 04-FEB-95 |
| 456 | Doris | 3.9 | 1000 | 24-JUL-97 |
| 567 | Edward | 2.9 | 2000 | 21-DEC-96 |
| 678 | Fay | 3.8 | 200 | 27-AUG-96 |
| 789 | Gary | 3.4 | 800 | 08-OCT-96 |
| 987 | Helen | 3.7 | 800 | 27-MAR-97 |

**Qus 3** ➔ Find average of GPA round off to 2 decimal places.

**CODE➔**

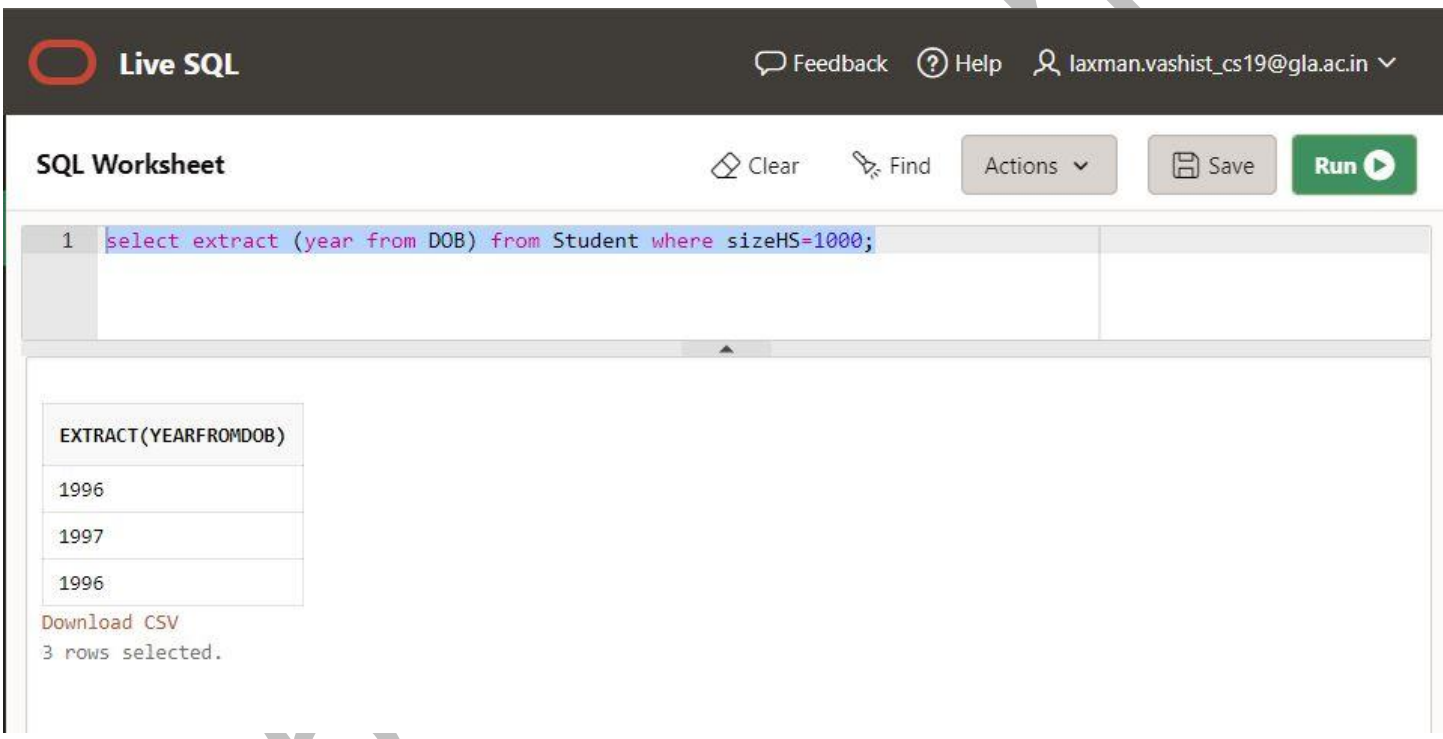
======



**Qus 4 ➔** Find year of DoB of Student having less than 1000.

**CODE➔**

**======**



**QUS 5 ➔** Compute Age of each student. (Hint: take difference between year of sysdate and Student's DoB)

**CODE ➔**

**======**

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SQL Worksheet | Clear | Find | Actions | Save | Run

```
1  select sysdate,DOB,(extract(year from sysdate)-extract(year from DOB)) from Student
```

| SYSDATE | DOB | (EXTRACT(YEARFROMSYSDATE)-EXTRACT(YEARFROMDOB)) |
|---|---|---|
| 31-OCT-20 | 26-JUN-96 | 24 |
| 31-OCT-20 | 07-APR-95 | 25 |
| 31-OCT-20 | 04-FEB-95 | 25 |
| 31-OCT-20 | 24-JUL-97 | 23 |
| 31-OCT-20 | 21-DEC-96 | 24 |
| 31-OCT-20 | 27-AUG-96 | 24 |
| 31-OCT-20 | 08-OCT-96 | 24 |
| 31-OCT-20 | 27-MAR-97 | 23 |
| 31-OCT-20 | 07-MAR-96 | 24 |
| 31-OCT-20 | 08-AUG-98 | 22 |
| 31-OCT-20 | 26-MAY-96 | 24 |
| 31-OCT-20 | 27-AUG-98 | 22 |

Download CSV

12 rows selected.

**Qus 6 ➔** Display name of all Students in uppercase and name of college they applied in lower case.

**CODE ➔**

**======**

Live SQL

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SQL Worksheet

Clear Find Actions Save Run

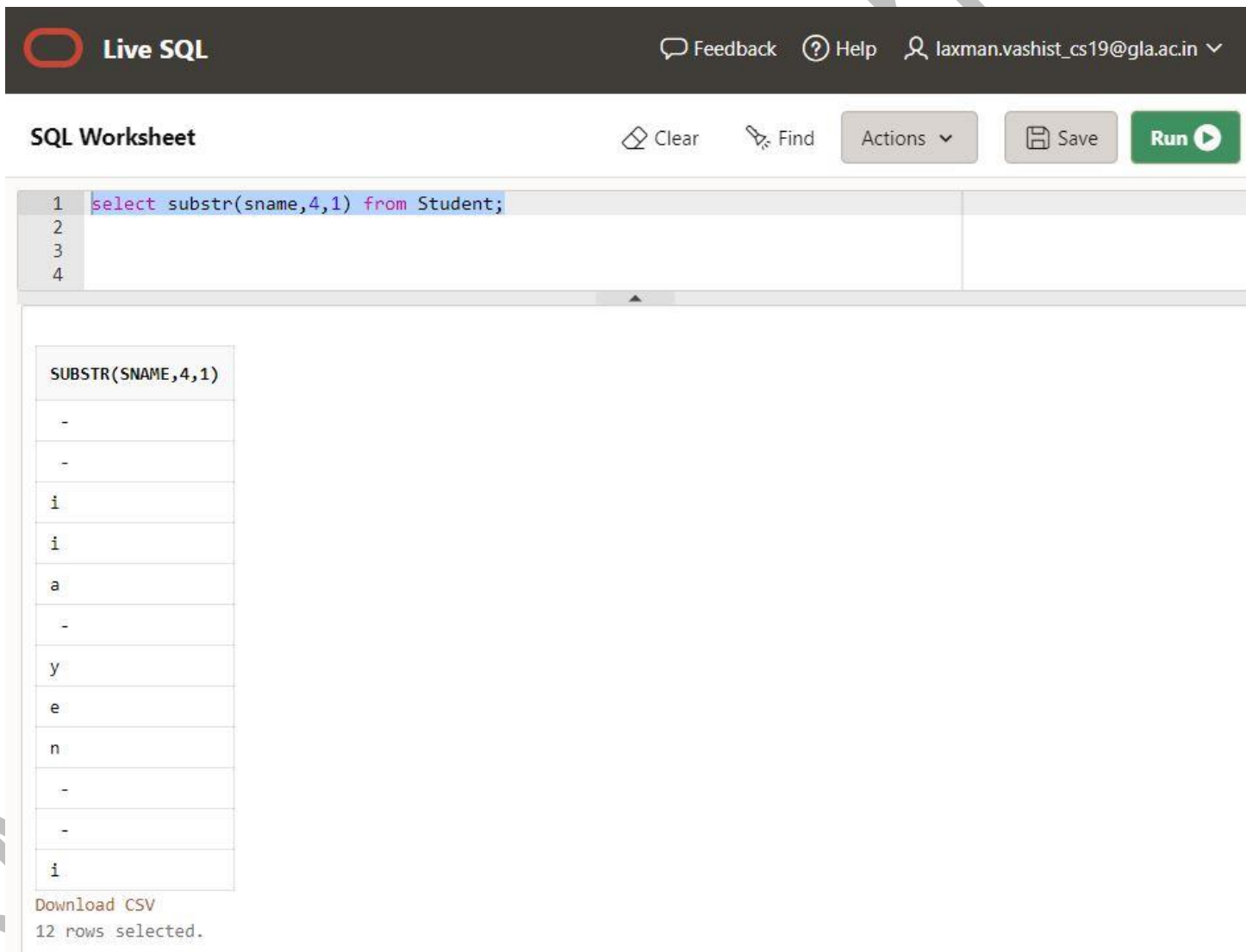
```
1  select upper(sname),lower(cname) from Student natural join Apply;
2
3
```

| UPPER(SNAME) | LOWER(CNAME) |
|---|---|
| AMY | berkeley |
| AMY | stanford |
| AMY | cornell |
| AMY | stanford |
| BOB | berkeley |
| CRAIG | cornell |
| CRAIG | cornell |
| CRAIG | cornell |
| CRAIG | mit |
| CRAIG | mit |
| FAY | stanford |
| JAY | cornell |
| JAY | stanford |
| JAY | cornell |

**Qus 7 ➔** Find fourth alphabet of each student. (Hint: use substring)

**CODE➔**

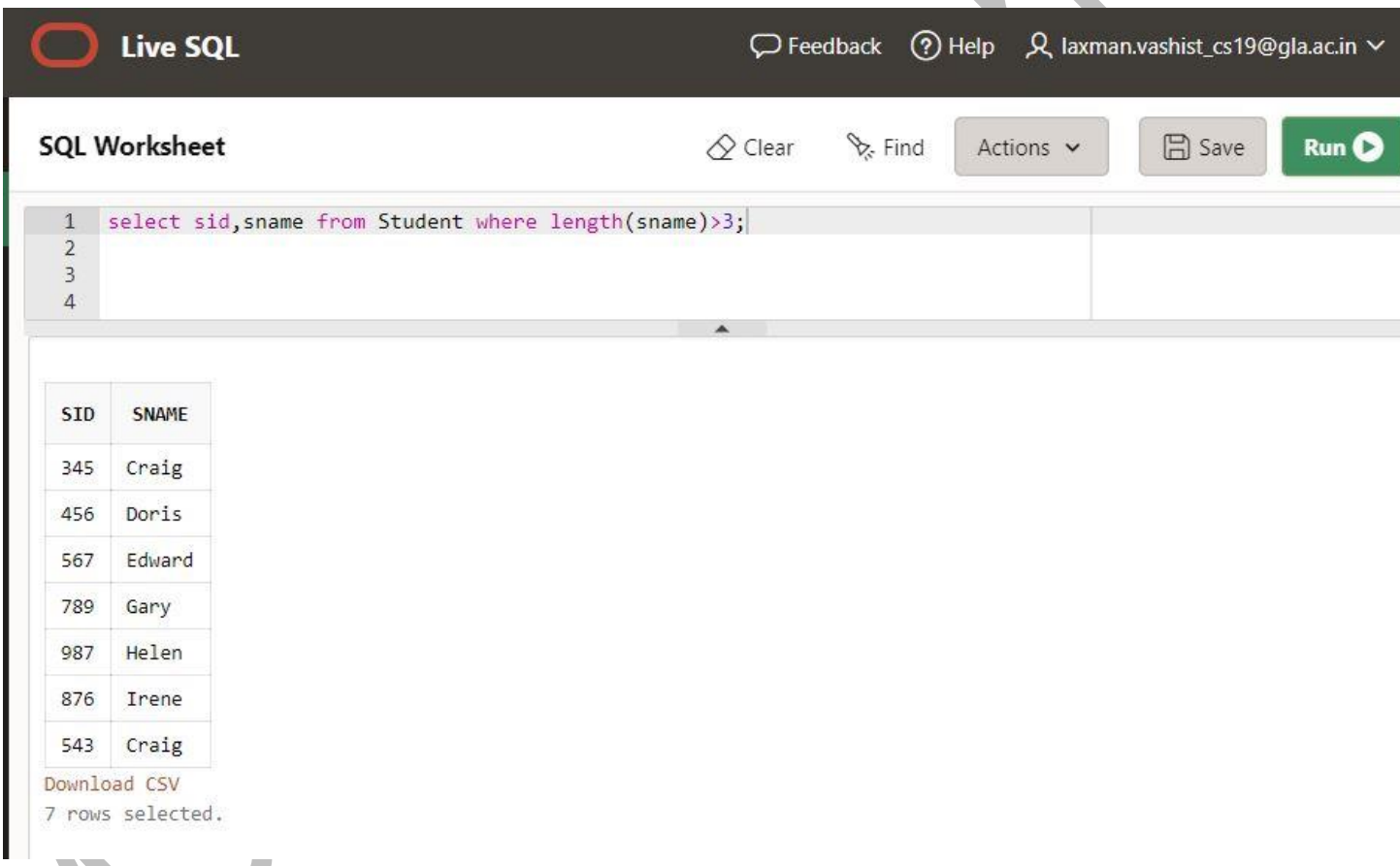
**======**



**Qus 8** ➔Find sID and sName of student whose sName has string length greater than 3.

**CODE➔**

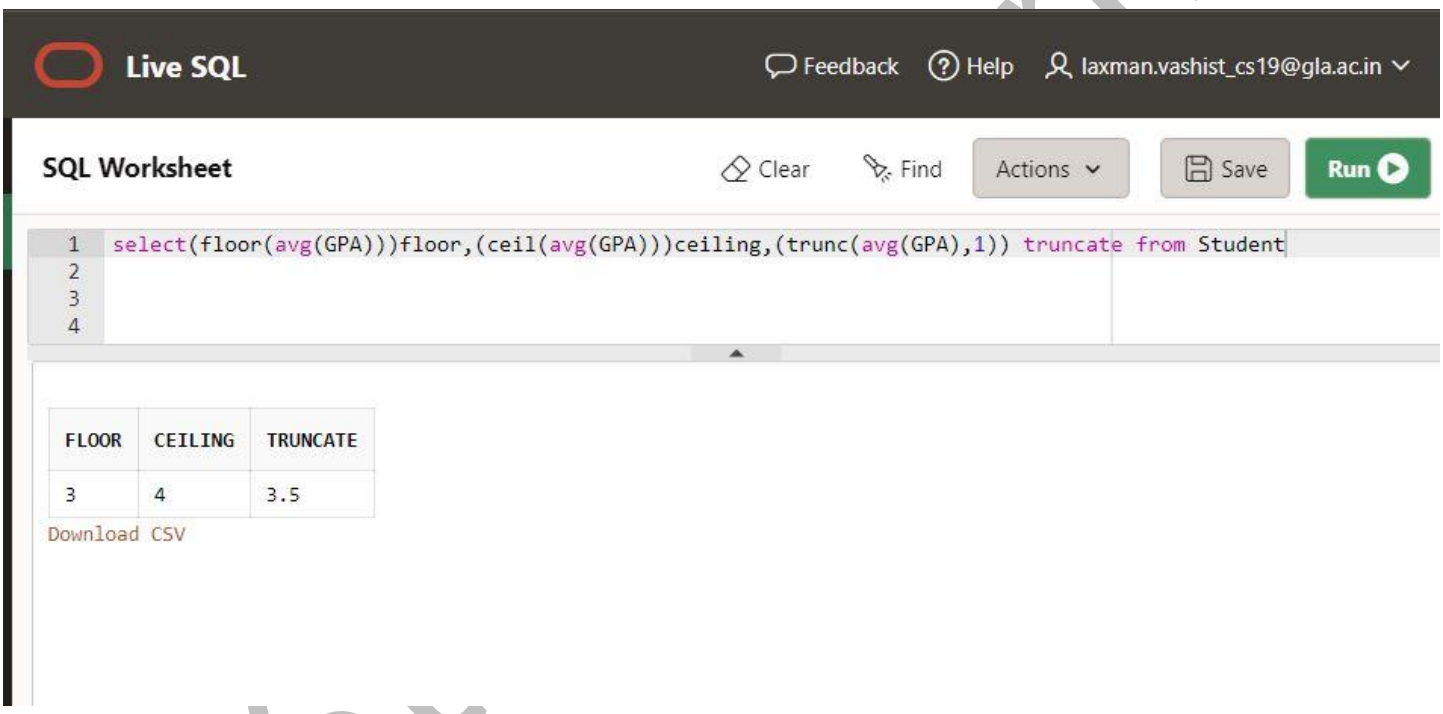
**======**



**Qus 9** ➔Find floor, ceiling and truncate (to one decimal place) value of average GPA.

**CODE➔**

**======**



**QUS 10 ➔** Display details of all students whose sID is even.

**CODE➔**

**======**

Live SQL

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SQL Worksheet

Clear Find Actions Save Run

```
1  select * from Student where mod(sid,2)=0;
2
3
4
```

| SID | SNAME | GPA | SIZEHS | DOB |
|---|---|---|---|---|
| 234 | Bob | 3.6 | 1500 | 07-APR-95 |
| 456 | Doris | 3.9 | 1000 | 24-JUL-97 |
| 678 | Fay | 3.8 | 200 | 27-AUG-96 |
| 876 | Irene | 3.9 | 400 | 07-MAR-96 |
| 654 | Amy | 3.9 | 1000 | 26-MAY-96 |

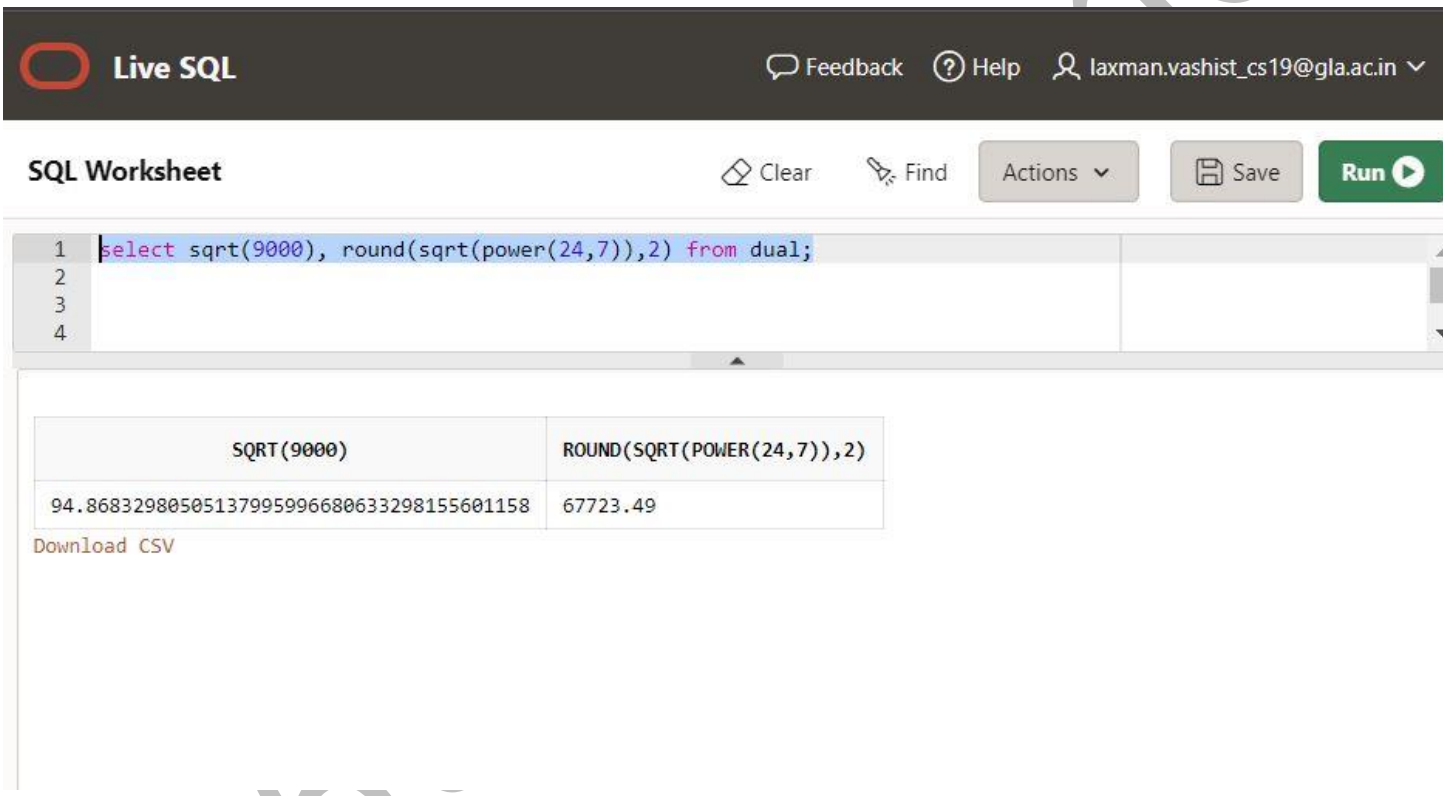
Download CSV

5 rows selected.

**QUS 11 ➔** Compute Square Root of 900 and 247 .

**CODE ➔**

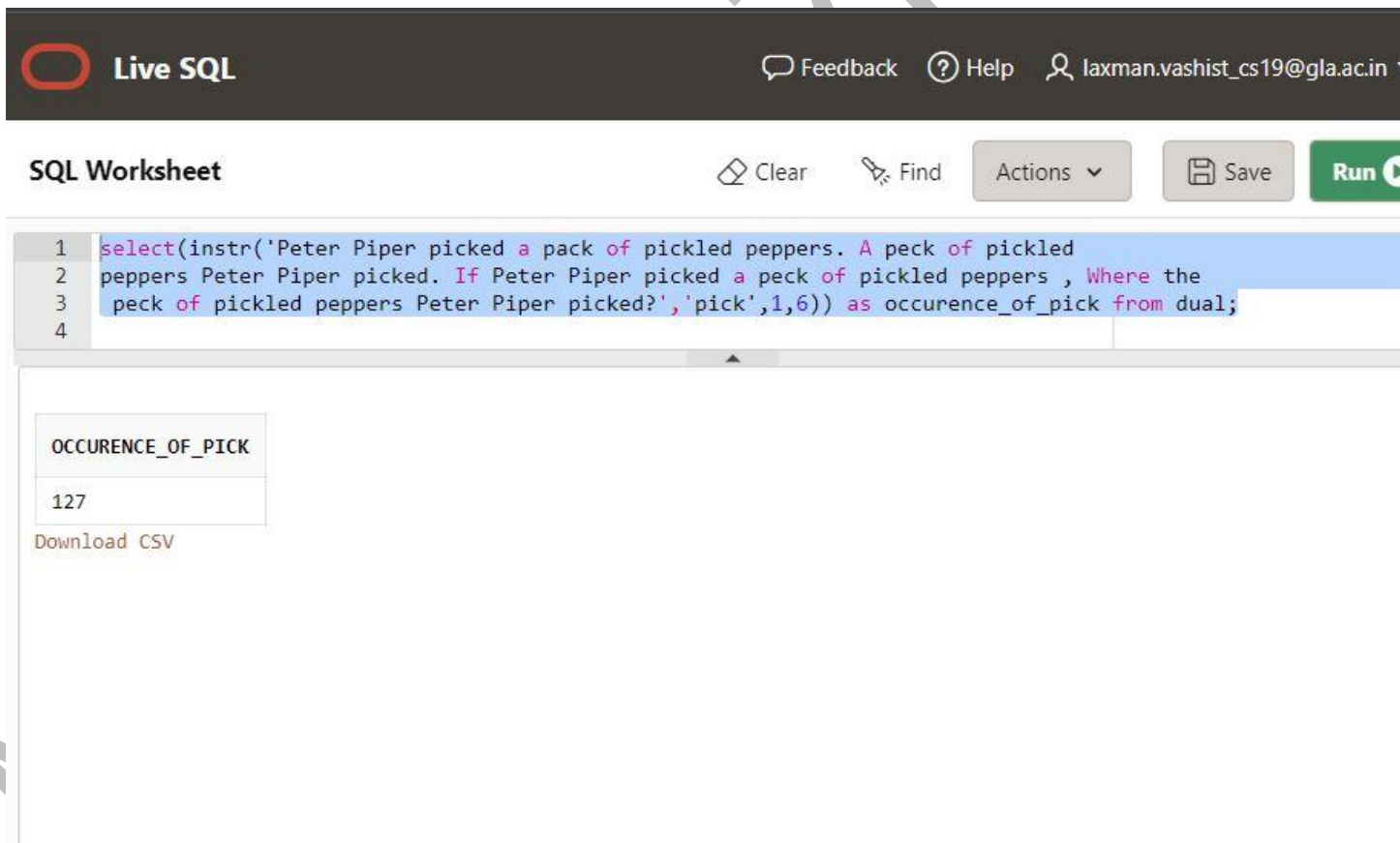
**======**



**QUS 12 ➔** Consider the string "Peter Piper picked a peck of pickled peppers. A peck of pickled peppers Peter Piper picked. If Peter Piper picked a peck of pickled peppers, Where the peck of pickled peppers Peter Piper picked?" Find 6th occurrence of string 'pick'. (Hint: use INSTR)

**CODE ➔**

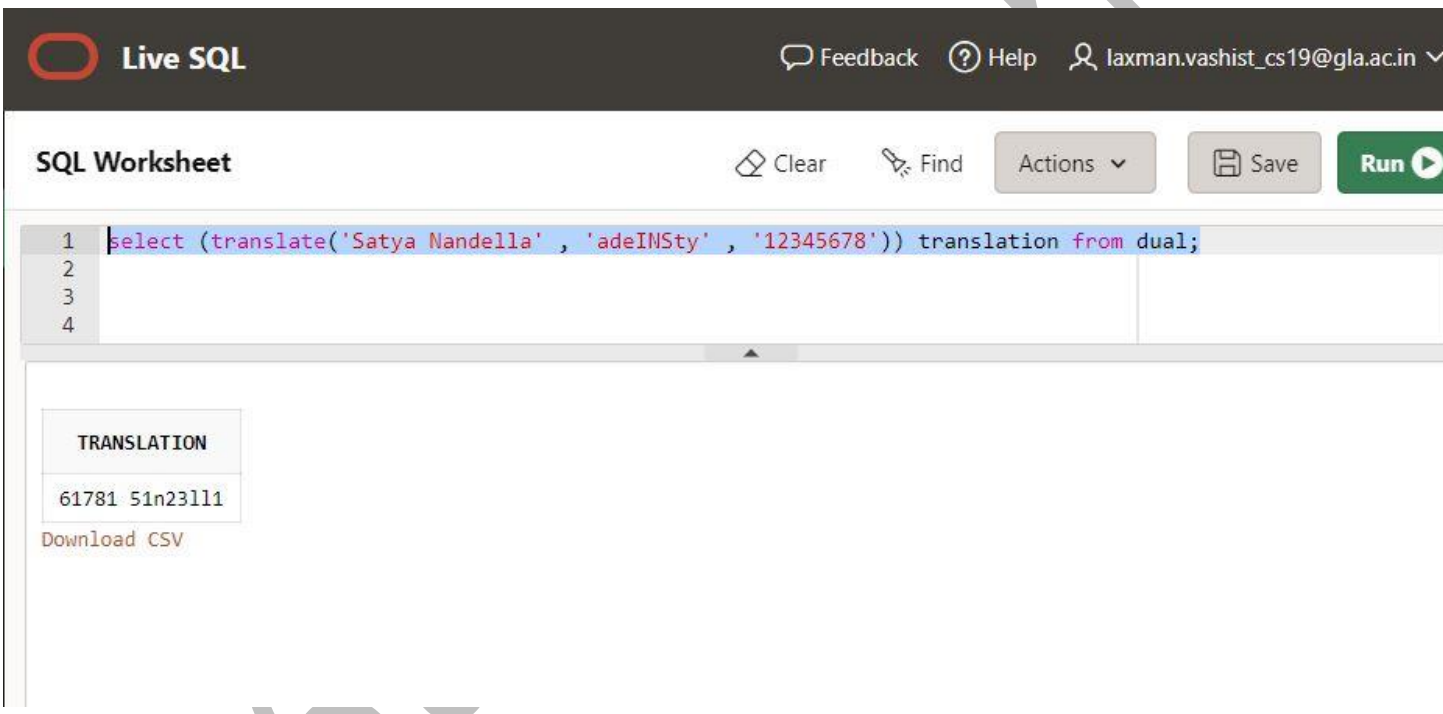
**======**



**QUS 13 ➔** Consider String 'Satya Nadella' replace this using the key (Hint: use translate)

**CODE ➔**

**======**



**QUS 14** ➔Display sID, sname and DoB in this format 'February 26, 2014'.

**CODE➔**

======

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SQL Worksheet Clear Find Actions Save Run

```
1  select sid,sname,(to_char(DOB,'Month DD,YYYY')) from Student;
2
3
4
```

| SID | SNAME | (TO_CHAR(DOB,'MONTHDD,YYYY')) |
|---|---|---|
| 123 | Amy | June 26,1996 |
| 234 | Bob | April 07,1995 |
| 345 | Craig | February 04,1995 |
| 456 | Doris | July 24,1997 |
| 567 | Edward | December 21,1996 |
| 678 | Fay | August 27,1996 |
| 789 | Gary | October 08,1996 |
| 987 | Helen | March 27,1997 |
| 876 | Irene | March 07,1996 |
| 765 | Jay | August 08,1998 |
| 654 | Amy | May 26,1996 |
| 543 | Craig | August 27,1998 |

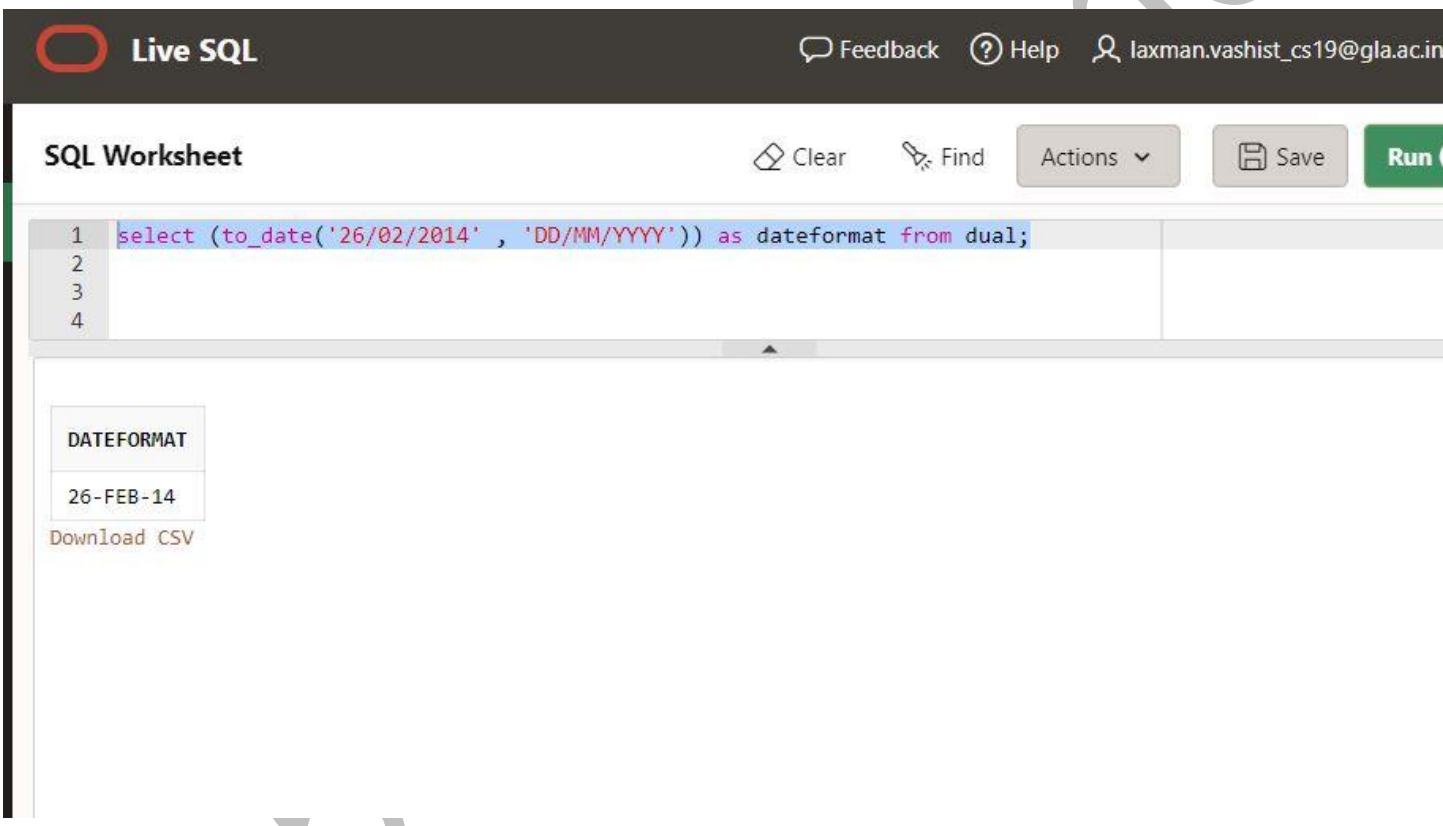
Download CSV

12 rows selected.

**QUS 15 ➔** Convert the text '26/02/2014' to date.

**CODE ➔**

**======**



**Qus 16 ➔** Compute on which date is next Saturday and last day of this month?

**CODE ➔**

**======**

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SQL Worksheet Clear Find Actions Save Run

```
1  select sysdate,(last_day(sysdate))month_lastday,(next_day(sysdate,'Saturday'))next_saturday from dual;
```

| SYSDATE | MONTH_LASTDAY | NEXT_SATURDAY |
|---|---|---|
| 31-OCT-20 | 31-OCT-20 | 07-NOV-20 |

Download CSV