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Subject → Database Management  
Systems Lab

Subject Code → BCSC 0802

Subject Teacher → MS. Gunjan  
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**Qus 1** → Create a new column DoB in Student table.  
(Datatype will be date).

**CODE** →

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SQL Worksheet Clear Find Actions Save Run

```
1 alter table Student
2 add DOB date;
3 select * from Student;
```

Table altered.

| SID | SNAME  | GPA | SIZEHS | DOB |
|-----|--------|-----|--------|-----|
| 123 | Amy    | 3.9 | 1000   | -   |
| 234 | Bob    | 3.6 | 1500   | -   |
| 345 | Craig  | 3.5 | 500    | -   |
| 456 | Doris  | 3.9 | 1000   | -   |
| 567 | Edward | 2.9 | 2000   | -   |
| 678 | Fay    | 3.8 | 200    | -   |
| 789 | Gary   | 3.4 | 800    | -   |
| 987 | Helen  | 3.7 | 800    | -   |
| 876 | Irene  | 3.9 | 400    | -   |
| 765 | Jay    | 2.9 | 1500   | -   |
| 654 | Amy    | 3.9 | 1000   | -   |
| 543 | Craig  | 3.4 | 2000   | -   |

Download CSV

**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** →

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SQL Worksheet

Clear Find Actions Save Run

1 select round ((avg(GPA)),2) from Student;

ROUND((AVG(GPA)),2)

3.57

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DBMS 6

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

**CODE** →

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**SQL Worksheet** Clear Find Actions Save Run

```
1 select extract (year from DOB) from Student where sizeHS=1000;
```


| EXTRACT(YEARFROMDOB) |
|----------------------|
| 1996                 |
| 1997                 |
| 1996                 |

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3 rows selected.

**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  |

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12 rows selected.

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

**CODE** →

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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** →

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SQL Worksheet

[Clear](#) [Find](#) [Actions](#) [Save](#) [Run](#)

```
1 select substr(sname,4,1) from Student;
2
3
4
```

| SUBSTR(SNAME,4,1) |
|-------------------|
| -                 |
| -                 |
| i                 |
| i                 |
| a                 |
| -                 |
| y                 |
| e                 |
| n                 |
| -                 |
| -                 |
| i                 |

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12 rows selected.



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

**CODE** →

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SQL Worksheet Clear Find Actions Save Run

```
1 select sid,sname from Student where length(sname)>3;
2
3
4
```

| SID | SNAME  |
|-----|--------|
| 345 | Craig  |
| 456 | Doris  |
| 567 | Edward |
| 789 | Gary   |
| 987 | Helen  |
| 876 | Irene  |
| 543 | Craig  |

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7 rows selected.

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

**CODE** →

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SQL Worksheet Clear Find Actions Save Run

```
1 select(floor(avg(GPA)))floor,(ceil(avg(GPA)))ceiling,(trunc(avg(GPA),1)) truncate from Student
2
3
4
```


| FLOOR | CEILING | TRUNCATE |
|-------|---------|----------|
| 3     | 4       | 3.5      |

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**Qus 10** → Display details of all students whose sid is even.

**CODE** →

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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.




DBMS





**Qus 11** → Compute Square Root of 900 and 247 .

**CODE** →

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**SQL Worksheet**  Clear  Find **Actions**  Save **Run** 

```
1 select sqrt(9000), round(sqrt(power(24,7)),2) from dual;
2
3
4
```


| SQRT(9000)                                | ROUND(SQRT(POWER(24,7)),2) |
|---|----------------------------|
| 94.86832980505137995996680633298155601158 | 67723.49                   |

[Download CSV](#)

**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** →

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 **Live SQL**

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**SQL Worksheet**

[Clear](#) [Find](#) [Actions](#) [Save](#) [Run](#)

```
1 select(instr('Peter Piper picked a pack of pickled peppers. A peck of pickled
2 peppers Peter Piper picked. If Peter Piper picked a peck of pickled peppers , Where the
3 peck of pickled peppers Peter Piper picked?', 'pick', 1, 6)) as occurrence_of_pick from dual;
4
```

| OCCURENCE_OF_PICK |
|-------------------|
| 127               |

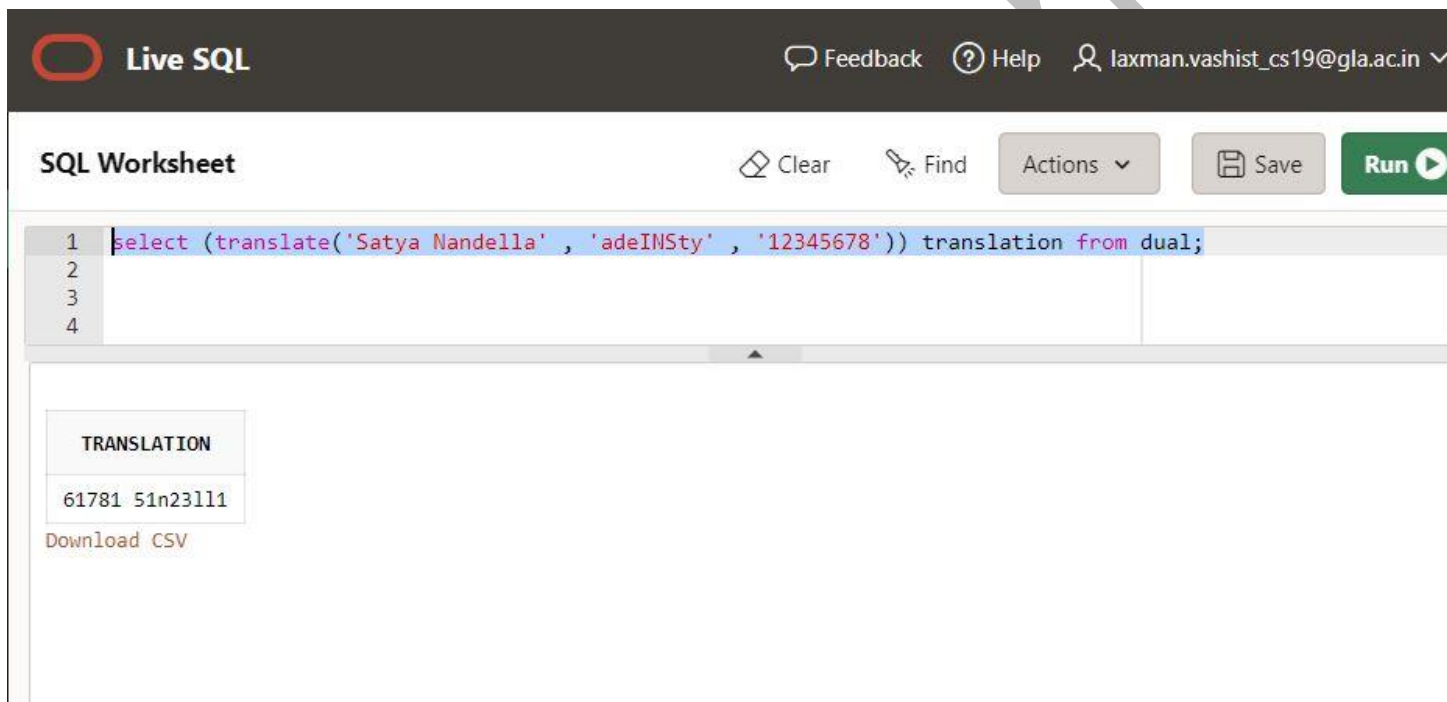
[Download CSV](#)

DBA

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

**CODE** →

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The screenshot shows a web-based SQL editor interface. At the top, there's a header with the 'Live SQL' logo and navigation links for Feedback, Help, and a user profile. Below the header, the main area is titled 'SQL Worksheet' and contains a code editor with a SQL query. The query is: `select (translate('Satya Nandella' , 'adeIMSty' , '12345678')) translation from dual;`. To the right of the code editor are buttons for 'Clear', 'Find', 'Actions', 'Save', and a green 'Run' button. Below the code editor, the results are displayed in a table with one column named 'TRANSLATION' and one row containing the value '61781 51n23111'. A 'Download CSV' link is also present.

Live SQL

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SQL Worksheet Clear Find Actions Save Run

```
1 select (translate('Satya Nandella' , 'adeIMSty' , '12345678')) translation from dual;
2
3
4
```

| TRANSLATION    |
|----------------|
| 61781 51n23111 |

Download CSV

**Qus 14** → Display sid, sname and DoB in this format  
'February 26, 2014'.

**CODE** →

=====

Live SQL

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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
```

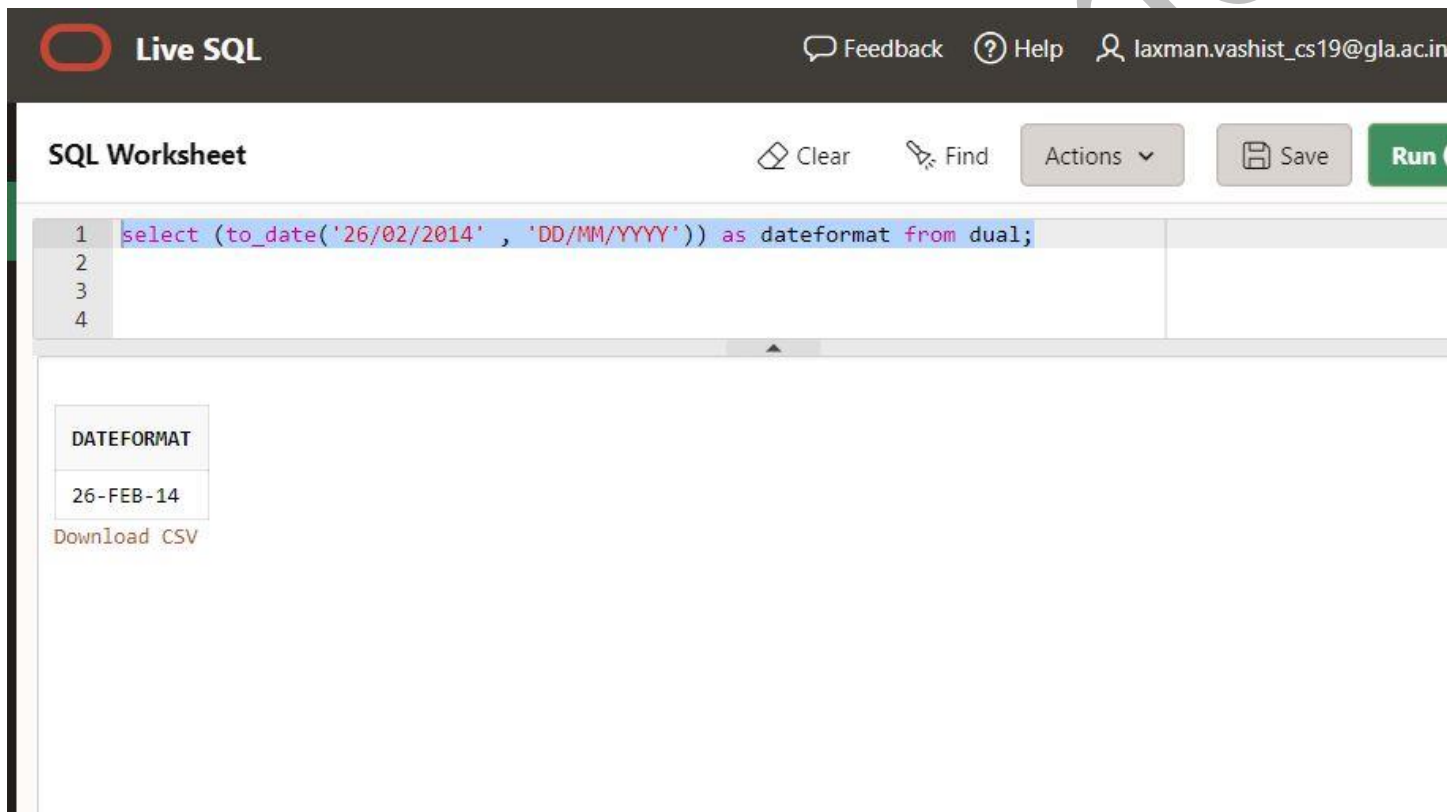
| SID | SNAME  | (TO_CHAR(DOB, 'MONTHDD, YYYY')) |
|-----|--------|---------------------------------|
| 123 | Amy    | June 26,1996                    |
| 234 | Bob    | April 07,1995                   |
| 345 | Craig  | February 04,1995                |
| 456 | Doris  | July 24,1997                    |
| 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** →

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The screenshot shows the 'Live SQL' web application interface. At the top, there is a navigation bar with 'Live SQL' logo, 'Feedback', 'Help', and a user profile 'laxman.vashist\_cs19@gla.ac.in'. Below this is the 'SQL Worksheet' section, which includes a 'Clear' button, a 'Find' search bar, an 'Actions' dropdown, a 'Save' button, and a 'Run' button. The main area contains a text editor with the following SQL query:

```
1 select (to_date('26/02/2014' , 'DD/MM/YYYY')) as dateformat from dual;
2
3
4
```

Below the editor, the results are displayed in a table with one column named 'DATEFORMAT' and one row containing the value '26-FEB-14'. A 'Download CSV' link is located below the table.

| DATEFORMAT |
|------------|
| 26-FEB-14  |


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

**CODE** →

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 **Live SQL**

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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](#)

DBMS 6th Assignment