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Subject → Database Management  
Systems Lab

Subject Code → BCSC 0802

Subject Teacher → MRS. Gunjan  
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**Qus 1** ➔ Count the total number of Students.

**CODE →**

11/11

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SQL Worksheet

ClearFindActionsSaveRun

1  
2  
3

```
select count(sname) from Student;
```

COUNT(SNAME)

12

Download CSV

**Qus 2** → Calculate the average GPA of all Student.

**CODE →**

Page 10 of 10

[illegible]

**Qus 3** → Determine the minimum and maximum GPA. Rename the titles as 'max\_GPA' and 'min\_GPA' respectively.

**CODE** →

=====

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SQL Worksheet Clear Find Actions Save Run

```
1 select min(GPA) min_GPA , max(gpa) max_gpa from Student;
```

MIN_GPA	MAX_GPA
2.9	3.9

Download CSV

**Qus 4** → Count the number of students having GPA greater than or equal to 3.7.

**CODE** →

=====

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SQL Worksheet Clear Find Actions Save Run

```
1 select count(sname) from student where GPA >= 3.7
```

COUNT(SNAME)
6

Download CSV

**CODE →**

=====

**Qus 6** → Find total number of colleges in our Application Database.

**CODE →**



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SQL Worksheet

ClearFindActionsSaveRun

1select count(distinct cNAME) from Apply

COUNT(DISTINCTCNAME)

4

Download CSV

**Qus 7** → Find how many different majors student had applied in.

**CODE** →

=====

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SQL Worksheet Clear Find Actions Save

```
1 select count(distinct major) from Apply
```

COUNT(DISTINCTMAJOR)
7

Download CSV

**Qus 8** → Find total no. of Applications in our Application System's Database.

**CODE** →

=====

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SQL Worksheet Clear Find Actions Save

```
1 select count(distinct sid) from Apply
```

COUNT(DISTINCTSID)
8

Download CSV

**Qus 9** → Find average of all distinct GPA.

**CODE** →

=====

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SQL Worksheet Clear Find Actions Save

```
1 select avg(distinct GPA) from student
```

AVG(DISTINCTGPA)
3.54285714285714285714285714285714

Download CSV

**Qus 10** → Display the total number of application accepted.

**CODE** →

=====

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SQL Worksheet Clear Find Actions Save Run

```
1 select count(decision) from Apply where decision = 'Y'
```

COUNT(DECISION)
11

Download CSV

**Qus 11** → Find number of students having GPA>3.4 and coming from high school having size>1000.

**CODE** →

=====

```
SQL Worksheet
```

```
1 select count(sname) from student where gpa > 3.4 and sizehs > 1000
```

COUNT(SNAME)
1

Download CSV

**Qus 12** → Find how many student applied to 'marine biology'.

**CODE** →

=====

```
SQL Worksheet
```

```
1 select count(sid) from Apply where major = 'marine biology'
```

COUNT(SID)
1

Download CSV

**Qus 13** → Find how many applications were rejected and accepted by the colleges.

**CODE** →

=====

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SQL Worksheet Clear Find Actions Save Run

```
1 select count(decision) as application_accept from Apply where decision = 'Y' ;
2 select count (decision) as application_rejected from apply where decision = 'N' ;
```

APPLICATION_ACCEPT
11

Download CSV

APPLICATION_REJECTED
8

Download CSV



**Qus 14** → Find how many students applied to a particular major. (show count(sid) as No\_of\_applications).

**CODE** →

=====

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SQL Worksheet Clear Find Actions Save

```
1 select count(major) as no_of_application from apply group by major
```


NO_OF_APPLICATION
1
1
3
2
3
2
7

Download CSV  
7 rows selected.

**Qus 15** → Find number of applications received by particular college.

**CODE** →

=====

 **Live SQL**

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SQL Worksheet

Clear Find Actions Save Run

1 `select cname, count(*) from apply group by cname;`

CNAME	COUNT(*)
Berkeley	3
Cornell	6
Stanford	6
MIT	4

Download CSV  
4 rows selected.

DB

**Qus 16** → Find number of applications received in a particular major at a particular college.

**CODE** →

=====

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SQL Worksheet Clear Find Actions Save Run

```
1 select cname, major, count(*) from apply group by cname , major;
```

CNAME	MAJOR	COUNT(*)
Berkeley	CS	2
Berkeley	biology	1
Stanford	history	2
Cornell	CS	1
Cornell	history	1
Cornell	bioengineering	1
Cornell	psychology	1
MIT	biology	1
MIT	bioengineering	1
Stanford	CS	3
Cornell	EE	2
Stanford	EE	1
MIT	CS	1
MIT	marine biology	1

Download CSV  
14 rows selected

**Qus 17** → Give the college name and major, where number of applications received are greater than or equal to 2.

**CODE** →

=====

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SQL Worksheet Clear Find Actions Save Run

```
1 select cname, major, count(*) from apply group by cname , major having count (*) >=2;
```

CNAME	MAJOR	COUNT(*)
Berkeley	CS	2
Stanford	history	2
Stanford	CS	3
Cornell	EE	2

Download CSV  
4 rows selected.

**Qus 18** → Give the name and no of applications of all those colleges which receives applications from 3 or more students.

**CODE** →

=====

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SQL Worksheet Clear Find Actions Save Run

```
1 select cname, count(*) from apply group by cname having count (*) >=3;
```

CNAME	COUNT(*)
Berkeley	3
Cornell	6
Stanford	6
MIT	4

Download CSV  
4 rows selected.

**Qus 19** → Give state and number of colleges of a state that has more than 1 college.

**CODE** →

=====

Live SQL

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SQL Worksheet Clear Find Actions Save Run

```
1 select state, count(*) from college group by state having count (*) >1;
```

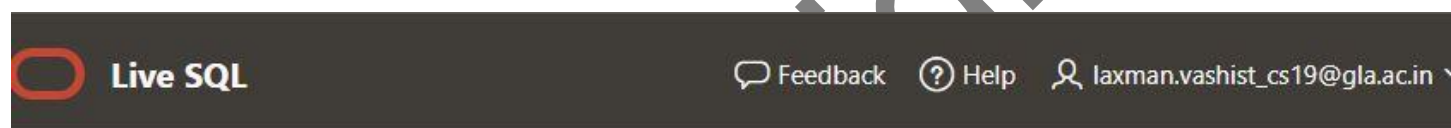
STATE	COUNT(*)
MA	2
CA	2

Download CSV  
2 rows selected.

**Qus 20** → Find the name of students that are duplicate.

**CODE** →

=====



SQL Worksheet

Clear

Find

Actions ▾

Save

Run

```
1 select sname, count(*) from student group by sname having count (*) >1;
```


SNAME	COUNT(*)
Amy	2
Craig	2

Download CSV  
2 rows selected.

**Qus 21** → Find how many applications are filed by each student. [Hint: use left join as we need information about all 12 students here. If they applied no where than show zero in front of them].

**CODE** →

=====

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SQL Worksheet

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

```
1 select student.sid, sname, count(cname) from student left join apply on
2 student.sid = apply.sid group by student.sid , sname;
```

SID	SNAME	COUNT(CNAME)
543	Craig	1
876	Irene	3
345	Craig	4
987	Helen	2
678	Fay	1
234	Bob	1
765	Jay	3
123	Amy	4
567	Edward	0
654	Amy	0
456	Doris	0
789	Gary	0

[Download CSV](#)  
12 rows selected.



**Qus 22** → Provide name of students that file 3 or more applications.

**CODE** →

=====

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**SQL Worksheet** [Clear](#) [Find](#) [Actions](#) [Save](#) [Run](#)

```
1 select sname, count(*) from student , apply where
2 student.sid = apply.sid group by sname having count(*) >= 3;
```

SNAME	COUNT(*)
Amy	4
Craig	5
Jay	3
Irene	3

[Download CSV](#)  
4 rows selected.

**Qus 23** → Provide name of student who have not applied to any college.

**CODE** →

=====

The screenshot shows a web-based SQL editor interface. At the top, there is a dark header with the 'Live SQL' logo, a 'Feedback' link, a 'Help' link, and a user profile icon with the email 'laxman.vashist\_cs19@gla.ac.'. Below the header, the main area is titled 'SQL Worksheet'. It contains a text input field with a SQL query: `select sname from student left join apply on student.sid = apply.sid where cname is null;`. To the right of the input field are buttons for 'Clear', 'Find', 'Actions', 'Save', and a partially visible 'Run' button. Below the query input, a table displays the results of the query. The table has a single column labeled 'SNAME' and four rows with the names 'Edward', 'Amy', 'Doris', and 'Gary'. Below the table, there is a 'Download CSV' link and a status message '4 rows selected.'.

SNAME
Edward
Amy
Doris
Gary

[Download CSV](#)  
4 rows selected.


GPA, Average GPA,  
applicants of each

[illegible]

**Qus 25** → Find how many student have same GPA among all students. (provide this frequency in two column table as GPA 3.9 is 4 times, GPA 2.9 is 2 times).

**CODE** →

=====

 **Live SQL**

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SQL Worksheet

Clear Find Actions Save Run

```
1 select GPA, count(*) from student group by gpa;
2
3
4
```

GPA	COUNT(*)
3.9	4
3.7	1
2.9	2
3.6	1
3.8	1
3.5	1
3.4	2

Download CSV  
7 rows selected.

**Qus 26** → Find how many student have their name started from A, B or C.

**CODE** →

=====

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SQL Worksheet Clear Find Actions Save Run

```
1 select sname, count(*) from student group by sname
2 having sname like 'A%' or sname like 'B%' or sname like 'C%';
```

SNAME	COUNT(*)
Amy	2
Bob	1
Craig	2

Download CSV  
3 rows selected.

THANK YOU