

ROMANTIC MASHUP SONG

Oracle Live SQL - SQL Worksheet

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```
1 create table College(cName varchar2(10) primary key, state
2 varchar2(10), enrollment int);
3 create table Student(sID int primary key, sName varchar2(10), GPA
4 real, sizeHS int);
5 create table Apply(sID int, cName varchar2(10), major varchar2(20),
6 decision char(1), admissionKey(sID, major, cName), constraint sID_fk
7 foreign key(sID) references Student, constraint cName_fk Foreign
8 key(cName) references College);
```

Table created.

Table created.

Table created.

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SQL Worksheet

```
1 create table College(cName varchar2(10) primary key, state
2 varchar2(10), enrollment int);
3 create table Student(sID int primary key, sName varchar2(10), GPA
4 real, sizeHS int);
5 create table Apply(sID int, cName varchar2(10), major varchar2(20),
6 decision char(1), admissionKey(sID, major, cName), constraint sID_fk
7 foreign key(sID) references Student, constraint cName_fk Foreign
8 key(cName) references College);
9 insert into Student values (123, 'Amy', 3.9, 1000);
10 insert into Student values (234, 'Bob', 3.6, 1500);
11 insert into Student values (345, 'Craig', 3.5, 800);
12 insert into Student values (456, 'David', 3.8, 1100);
13 insert into Student values (567, 'Eduard', 2.5, 2000);
14 insert into Student values (678, 'Fay', 3.8, 200);
15 insert into Student values (789, 'Gary', 3.4, 800);
16 insert into Student values (987, 'Helen', 3.7, 800);
17 insert into Student values (890, 'Irene', 3.5, 800);
18 insert into Student values (765, 'John', 2.8, 1500);
19 insert into Student values (654, 'Amy', 3.9, 1000);
20 insert into Student values (543, 'Craig', 3.4, 2000);
21 insert into College values ('Stanford', 'CA', 15000);
```

1 row(s) inserted.

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The screenshot shows the Oracle Live SQL interface. The top navigation bar includes tabs for 'ROMANTIC MASHUP SONG' and 'Oracle Live SQL - SQL Worksheet'. The URL is 'livesql.oracle.com/apex/f?p=590:1:16672128216078::NO::'. The top right corner shows user information: 'vishaljain_c18@glacain'. The left sidebar has sections for Home, SQL Worksheet (selected), My Session, Schema, Quick SQL, My Scripts, My Tutorials, and Code Library. The main area is titled 'SQL Worksheet' and contains the following SQL code:

```
26 insert into Apply values (112, 'Stanford', 'CS', 'Y');
27 insert into Apply values (123, 'Stanford', 'EE', 'N');
28 insert into Apply values (123, 'Stanford', 'CS', 'N');
29 insert into Apply values (124, 'Cornell', 'EE', 'Y');
30 insert into Apply values (234, 'Berkeley', 'biology', 'N');
31 insert into Apply values (345, 'MIT', 'bioengineering', 'Y');
32 insert into Apply values (345, 'Cornell', 'biomaterials', 'N');
33 insert into Apply values (345, 'Cornell', 'CS', 'Y');
34 insert into Apply values (345, 'Cornell', 'EE', 'N');
35 insert into Apply values (678, 'Stanford', 'history', 'Y');
36 insert into Apply values (987, 'Stanford', 'CS', 'Y');
37 insert into Apply values (987, 'Berkeley', 'CS', 'Y');
38 insert into Apply values (876, 'Stanford', 'CS', 'N');
39 insert into Apply values (876, 'Berkeley', 'biology', 'N');
40 insert into Apply values (876, 'MIT', 'computer science', 'N');
41 insert into Apply values (765, 'Stanford', 'history', 'Y');
42 insert into Apply values (765, 'Cornell', 'history', 'N');
43 insert into Apply values (765, 'Cornell', 'psychology', 'Y');
44 insert into Apply values (543, 'MIT', 'CS', 'N');
45 select count(*) from Student;
```

The results pane below shows the output of the COUNT(*) query:

COUNT(*)
12

Buttons for 'Clear', 'Actions', 'Save', and 'Run' are at the top right. A 'Download CSV' link is at the bottom left.

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```
29 insert into Apply values (123, 'Cornell', 'EE', 'Y');
30 insert into Apply values (234, 'Berkeley', 'biology', 'N');
31 insert into Apply values (345, 'MIT', 'biengineering', 'Y');
32 insert into Apply values (345, 'Cornell', 'biengineering', 'N');
33 insert into Apply values (345, 'Cornell', 'CS', 'Y');
34 insert into Apply values (345, 'Cornell', 'EE', 'N');
35 insert into Apply values (678, 'Stanford', 'history', 'Y');
36 insert into Apply values (987, 'Stanford', 'CS', 'Y');
37 insert into Apply values (987, 'Berkeley', 'CS', 'Y');
38 insert into Apply values (987, 'Stanford', 'EE', 'N');
39 insert into Apply values (876, 'MIT', 'biology', 'Y');
40 insert into Apply values (876, 'MIT', 'marine biology', 'N');
41 insert into Apply values (765, 'Stanford', 'history', 'Y');
42 insert into Apply values (765, 'Cornell', 'history', 'N');
43 insert into Apply values (765, 'Cornell', 'psychology', 'Y');
44 insert into Apply values (543, 'MIT', 'CS', 'N');
45 select count(*) from Student;
46 select AVG(GPA) from Student;
47 Select MIN(GPA) as "Minimum GPA" from Student;
48 Select Max(GPA) as "Maximum GPA" from student;
49
```

Minimum GPA
2.9
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Maximum GPA
3.9
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```
29 insert into Apply values (123, 'Cornell', 'EE', 'Y');
30 insert into Apply values (234, 'Berkeley', 'biology', 'N');
31 insert into Apply values (345, 'MIT', 'biengineering', 'Y');
32 insert into Apply values (345, 'Cornell', 'biengineering', 'N');
33 insert into Apply values (345, 'Cornell', 'CS', 'Y');
34 insert into Apply values (345, 'Cornell', 'EE', 'N');
35 insert into Apply values (678, 'Stanford', 'history', 'Y');
36 insert into Apply values (987, 'Stanford', 'CS', 'Y');
37 insert into Apply values (987, 'Berkeley', 'CS', 'Y');
38 insert into Apply values (987, 'Stanford', 'EE', 'N');
39 insert into Apply values (876, 'MIT', 'biology', 'Y');
40 insert into Apply values (876, 'MIT', 'marine biology', 'N');
41 insert into Apply values (765, 'Stanford', 'history', 'Y');
42 insert into Apply values (765, 'Cornell', 'history', 'N');
43 insert into Apply values (765, 'Cornell', 'psychology', 'Y');
44 insert into Apply values (543, 'MIT', 'CS', 'N');
45 select count(*) from Student;
46 select AVG(GPA) from Student;
47 Select MIN(GPA) as "Minimum GPA" from Student;
48 Select Max(GPA) as "Maximum GPA" from student;
49 select count(*) from Student where GPA>3.7;
```

COUNT()
5
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```
12 insert into Apply values (345, 'Cornell', 'bioengineering', 'N');
13 insert into Apply values (345, 'Cornell', 'CS', 'Y');
14 insert into Apply values (345, 'Cornell', 'EE', 'N');
15 insert into Apply values (678, 'Stanford', 'history', 'Y');
16 insert into Apply values (678, 'Stanford', 'CS', 'N');
17 insert into Apply values (987, 'Berkeley', 'CS', 'Y');
18 insert into Apply values (876, 'Stanford', 'CS', 'N');
19 insert into Apply values (876, 'MIT', 'biology', 'Y');
20 insert into Apply values (876, 'MIT', 'marine biology', 'N');
21 insert into Apply values (765, 'Stanford', 'history', 'Y');
22 insert into Apply values (765, 'Cornell', 'psychology', 'Y');
23 insert into Apply values (543, 'MIT', 'CS', 'N');
24 select count(*) from Student;
25 select AVG(GPA) from Student;
26 Select MIN(GPA) as "Minimum GPA" from Student;
27 Select Max(GPA) as "Maximum GPA" from student;
28 select count(*) from Student where GPA>3.7;
29 select MAX(GPA),MIN(GPA),AVG(GPA),SUM(GPA) from Student;
30 select count(distinct cNAME) from Apply;
31
32
```

COUNT(DISTINCTcNAME)

4

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```
22 insert into Apply values (345, 'Cornell', 'bioengineering', 'N');
23 insert into Apply values (345, 'Cornell', 'CS', 'Y');
24 insert into Apply values (345, 'Cornell', 'EE', 'N');
25 insert into Apply values (678, 'Stanford', 'history', 'Y');
26 insert into Apply values (678, 'Stanford', 'CS', 'N');
27 insert into Apply values (987, 'Berkeley', 'CS', 'Y');
28 insert into Apply values (876, 'Stanford', 'CS', 'N');
29 insert into Apply values (876, 'MIT', 'biology', 'Y');
30 insert into Apply values (876, 'MIT', 'marine biology', 'N');
31 insert into Apply values (765, 'Stanford', 'history', 'Y');
32 insert into Apply values (765, 'Cornell', 'psychology', 'Y');
33 insert into Apply values (543, 'MIT', 'CS', 'N');
34 select count(*) from Student;
35 select AVG(GPA) from Student;
36 Select MIN(GPA) as "Minimum GPA" from Student;
37 Select Max(GPA) as "Maximum GPA" from student;
38 select count(*) from Student where GPA>3.7;
39 select MAX(GPA),MIN(GPA),AVG(GPA),SUM(GPA) from Student;
40 select count(distinct cNAME) from Apply;
41
42
```

COUNT(*)

18

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```
33 insert into Apply values (345, 'Cornell', 'CS', 'Y');
34 insert into Apply values (345, 'Cornell', 'EE', 'N');
35 insert into Apply values (678, 'Stanford', 'history', 'Y');
36 insert into Apply values (987, 'Stanford', 'CS', 'Y');
37 insert into Apply values (765, 'Berkeley', 'EE', 'N');
38 insert into Apply values (876, 'Stanford', 'CS', 'N');
39 insert into Apply values (876, 'MIT', 'biology', 'Y');
40 insert into Apply values (876, 'MIT', 'marine biology', 'N');
41 insert into Apply values (765, 'Cornell', 'history', 'Y');
42 insert into Apply values (765, 'Cornell', 'history', 'N');
43 insert into Apply values (765, 'Cornell', 'psychology', 'Y');
44 insert into Apply values (543, 'MIT', 'CS', 'N');
45 select count(*) from Student;
46 select AVG(GPA) from Student;
47 Select MIN(GPA) as "Minimum GPA" from Student;
48 Select Max(GPA) as "Maximum GPA" from student;
49 select count(*) from Student where GPA>3.7;
50 select MAX(GPA),MIN(GPA),AVG(GPA),SUM(GPA) from Student;
51 select count(distinct cNAME) from Apply;
52 select count(*) from Apply;
53 select count(distinct major) from apply;
```

COUNT(DISTINCTMAJOR)

7

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```
34 insert into Apply values (345, 'Cornell', 'EE', 'N');
35 insert into Apply values (678, 'Stanford', 'history', 'Y');
36 insert into Apply values (987, 'Stanford', 'CS', 'Y');
37 insert into Apply values (765, 'Berkeley', 'EE', 'N');
38 insert into Apply values (876, 'Stanford', 'CS', 'N');
39 insert into Apply values (876, 'MIT', 'biology', 'Y');
40 insert into Apply values (876, 'MIT', 'marine biology', 'N');
41 insert into Apply values (765, 'Stanford', 'history', 'Y');
42 insert into Apply values (765, 'Cornell', 'history', 'N');
43 insert into Apply values (765, 'Cornell', 'psychology', 'Y');
44 insert into Apply values (543, 'MIT', 'CS', 'N');
45 select count(*) from Student;
46 select AVG(GPA) from Student;
47 Select MIN(GPA) as "Minimum GPA" from Student;
48 Select Max(GPA) as "Maximum GPA" from student;
49 select count(*) from Student where GPA>3.7;
50 select MAX(GPA),MIN(GPA),AVG(GPA),SUM(GPA) from Student;
51 select count(distinct cNAME) from Apply;
52 select count(*) from Apply;
53 select count(distinct major) from apply;
54 select avg(distinct GPA) from Student;
```

AVG(DISTINCTGPA)

3.54285714285714285714285714285714285714

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```
35 insert into Apply values (987, 'Stanford', 'history', 'Y');
36 insert into Apply values (987, 'Stanford', 'CS', 'Y');
37 insert into Apply values (987, 'Berkeley', 'CS', 'Y');
38 insert into Apply values (876, 'Stanford', 'CS', 'N');
39 insert into Apply values (876, 'MIT', 'biology', 'Y');
40 insert into Apply values (876, 'MIT', 'marine biology', 'N');
41 insert into Apply values (765, 'Stanford', 'history', 'Y');
42 insert into Apply values (765, 'Cornell', 'history', 'N');
43 insert into Apply values (765, 'Cornell', 'psychology', 'Y');
44 insert into Apply values (543, 'MIT', 'CS', 'N');
45 select count(*) from Student;
46 select AVG(GPA) from Student;
47 Select MIN(GPA) as "Minimum GPA" from Student;
48 Select Max(GPA) as "Maximum GPA" from student;
49 select count(*) from Student where GPA>3.7;
50 select MAX(GPA),MIN(GPA),AVG(GPA),SUM(GPA) from Student;
51 select count(distinct cName) from Apply;
52 select count(*) from Apply;
53 select count(distinct major) from apply;
54 select AVG(district GPA) from Student;
55 select count(*) from Apply where decision='Y';
```

COUNT(*)

11

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```
36 insert into Apply values (987, 'Stanford', 'CS', 'Y');
37 insert into Apply values (987, 'Berkeley', 'CS', 'Y');
38 insert into Apply values (876, 'Stanford', 'CS', 'N');
39 insert into Apply values (876, 'MIT', 'biology', 'Y');
40 insert into Apply values (876, 'MIT', 'marine biology', 'N');
41 insert into Apply values (765, 'Stanford', 'history', 'Y');
42 insert into Apply values (765, 'Cornell', 'history', 'N');
43 insert into Apply values (765, 'Cornell', 'psychology', 'Y');
44 insert into Apply values (543, 'MIT', 'CS', 'N');
45 select count(*) from Student;
46 select AVG(GPA) as "Minimum GPA" from Student;
47 Select MIN(GPA) as "Minimum GPA" from Student;
48 Select Max(GPA) as "Maximum GPA" from student;
49 select count(*) from Student where GPA>3.7;
50 select MAX(GPA),MIN(GPA),AVG(GPA),SUM(GPA) from Student;
51 select count(*) from Student where sizeH>1000;
52 select count(*) from Apply;
53 select count(distinct major) from apply;
54 select AVG(district GPA) from Student;
55 select count(*) from Apply where decision='Y';
56 select COUNT(*) from Student where GPA>3.4 and sizeH>1000;
```

COUNT(*)

1

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17 insert into Apply values (980, 'Berkeley', 'CS', 'Y');
38 insert into Apply values (876, 'Stanford', 'CS', 'N');
39 insert into Apply values (876, 'MIT', 'biology', 'Y');
40 insert into Apply values (876, 'MIT', 'marine biology', 'N');
41 insert into Apply values (765, 'Stanford', 'history', 'N');
42 insert into Apply values (765, 'Cornell', 'history', 'N');
43 insert into Apply values (765, 'Cornell', 'psychology', 'Y');
44 insert into Apply values (543, 'MIT', 'CS', 'N');
45 select count(*) from Student;
46 select count(*) from Student;
47 Select MIN(GPA) as "Minimum GPA" from Student;
48 Select Max(GPA) as "Maximum GPA" from student;
49 select count(*) from Student where GPA>3.7;
50 select MAX(GPA),MIN(GPA),AVG(GPA),SUM(GPA) from Student;
51 select count(distinct cName) from Apply;
52 select count(*) from Apply;
53 select count(distinct major) from apply;
54 select AVG(distinct GPA) from Student;
55 select count(*) from Apply where decision='Y';
56 select COUNT(*) from Student where GPA>3.4 and sizeHS>1000;
57 select COUNT(*) from Apply where major='marine biology'%

```

COUNT(*)

1

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```

29 insert into Apply values (860, 'MIT', 'biology', 'Y');
30 insert into Apply values (876, 'MIT', 'marine biology', 'N');
31 insert into Apply values (765, 'Stanford', 'history', 'Y');
32 insert into Apply values (765, 'Cornell', 'history', 'N');
33 insert into Apply values (765, 'Cornell', 'psychology', 'Y');
34 insert into Apply values (543, 'MIT', 'CS', 'N');
35 select count(*) from Student;
36 select AVG(GPA) from Student;
37 Select MIN(GPA) as "Minimum GPA" from Student;
38 Select Max(GPA) as "Maximum GPA" from student;
39 select count(*) from Student where GPA>3.7;
40 select MAX(GPA),MIN(GPA),AVG(GPA),SUM(GPA) from Student;
41 select count(distinct cName) from Apply;
42 select count(*) from Apply;
43 select count(distinct major) from apply;
44 select count(*) from Student where GPA>3.4 and sizeHS>1000;
45 select COUNT(*) from Apply where major='marine biology';
46 select decision, count(decision) from apply group by decision;
47

```

DECISION	COUNT(DECISION)
Y	11
N	7

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2 rows selected.

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The screenshot shows the Oracle Live SQL interface. The left sidebar contains navigation links: Home, SQL Worksheet (selected), My Session, Schema, Quick SQL, My Scripts, My Tutorials, and Code Library. The main area is titled "SQL Worksheet". It displays the following SQL code:

```
39 insert into Apply values (86, 'MIT', 'biology', 'Y');
40 insert into Apply values (876, 'MIT', 'marine biology', 'N');
41 insert into Apply values (765, 'Stanford', 'history', 'Y');
42 insert into Apply values (765, 'Cornell', 'history', 'N');
43 insert into Apply values (543, 'Cornell', 'psychology', 'Y');
44 insert into Apply values (543, 'MIT', 'CS', 'N');
45 select count(*) from Student;
46 select AVG(GPA) from Student;
47 Select MIN(GPA) "Minimum GPA" from Student;
48 Select MAX(GPA) "Maximum GPA" from student;
49 select count(*) from student where GPA>3.7;
50 select MAX(GPA),MIN(GPA),AVG(GPA),SUM(GPA) from Student;
51 select count(distinct cNAME) from Apply;
52 select count(*) from Apply;
53 select count(distinct major) from apply;
54 select AVG(GPA) from Student;
55 select count(*) from Apply where decision='Y';
56 select COUNT(*) from Student where GPA>3.4 and sizeHS>1000;
57 select COUNT(*) from Apply where major='marine biology';
58 select decision,count(decision) from apply group by decision;
59 select count(distinct major) from Apply;
```

Below the code, there is a text input field containing "COUNT(DISTINCT(MAJOR))" and a "Run" button. At the bottom, there is a "Download CSV" link.

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Clear Actions Save Run

SQL Worksheet

```
42 insert into Apply values (765,'Cornell','history','N');
43 insert into Apply values (765,'Cornell','psychology','Y');
44 insert into Apply values (543,'MIT','CS','N');
45 select count(*) from Student;
46 select count(*) from Apply;
47 select MIN(GPA) as "Minimum GPA" from Student;
48 Select Max(GPA) as "Maximum GPA" from student;
49 select count(*) from Student where GPA<3.7;
50 select MAX(GPA),MIN(GPA),AVG(GPA),SUM(GPA) from Student;
51 select count(*) from major;
52 select count(*) from apply;
53 select count(distinct major) from apply;
54 select AVG(distinct GPA) from Student;
55 select count(*) from Apply where decision='Y';
56 select COUNT(*) from Student where GPA>3.4 and sizeH>1000;
57 select COUNT(*) from apply where major='marine biology';
58 select decision,count(decision) from apply group by decision;
59 select count(distinct major) from Apply;
60 select count(decision) from apply group by decision='Y';
61 select major,count(sID) as no_of_applicant from Apply group by major;
```

MAJOR NO_OF_APPLICANT

marine biology	1
psychology	1
EE	3
biology	2
history	3
bioengineering	2
CS	6

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```
43 insert into Apply values ('Berkeley', 'Cornell', 'psychology', 'Y');
44 insert into Apply values ('SAS', 'MIT', 'CS', 'N');
45 select count(*) from Student;
46 select AVG(GPA) from Student;
47 select MIN(GPA) as "Minimum GPA" from Student;
48 select MAX(GPA) as "Maximum GPA" from Student;
49 select count(*) from Student where GPA>3.7;
50 select MAX(GPA),MIN(GPA),AVG(GPA),SUM(GPA) from Student;
51 select count(distinct chNAME) from Apply;
52 select count(chNAME) from Apply;
53 select count(distinct major) from Apply;
54 select AVG(distinct GPA) from Student;
55 select count(*) from Apply where decision='Y';
56 select COUNT(*) from Student where GPA>3.4 and sizeHS>1000;
57 select COUNT(*) from Apply where major='marine biology';
58 select decision,count(decision) from apply group by decision;
59 select count(distinct major) from Apply;
60 select count(decision) from apply group by decision='Y';
61 select major,count(sID) as no_of_applicant from Apply group by major;
62 select chNAME,count(sID) from apply group by chNAME;
63
```

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

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```
43 insert into Apply values ('Berkeley', 'Cornell', 'psychology', 'Y');
44 insert into Apply values ('SAS', 'MIT', 'CS', 'N');
45 select count(*) from Student;
46 select AVG(GPA) from Student;
47 select MIN(GPA) as "Minimum GPA" from Student;
48 select MAX(GPA) as "Maximum GPA" from Student;
49 select count(*) from Student where GPA>3.7;
50 select MAX(GPA),MIN(GPA),AVG(GPA),SUM(GPA) from Student;
51 select count(distinct chNAME) from Apply;
52 select count(chNAME) from Apply;
53 select count(distinct major) from Apply;
54 select AVG(distinct GPA) from Student;
55 select count(*) from Apply where decision='Y';
56 select COUNT(*) from Student where GPA>3.4 and sizeHS>1000;
57 select COUNT(*) from Apply where major='marine biology';
58 select decision,count(decision) from apply group by decision;
59 select count(distinct major) from Apply;
60 select count(decision) from apply group by decision='Y';
61 select major,count(sID) as no_of_applicant from Apply group by major;
62 select chNAME,count(sID) from apply group by chNAME;
63
```

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

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```

44 insert into apply values (143, 'BLU', 'CS', 'N');
45 select count(*) from Student;
46 select AVG(GPA) from Student;
47 Select MIN(GPA) as "Minimum GPA" from Student;
48 Select MAX(GPA) as "Maximum GPA" from student;
49 select count(*) from Student where GPA>3.7;
50 select MAX(GPA),MIN(GPA),AVG(GPA),SUM(GPA) from Student;
51 select count(distinct cname) from apply;
52 select count(*) from Apply;
53 select count(distinct sid) from apply;
54 select AVG(distinct GPA) from Student;
55 select count(*) from Apply where decision='Y';
56 select COUNT(*) from Student where GPA>3.4 and sizeH>1000;
57 select COUNT(*) from Apply where major='marine biology';
58 select count(distinct major) from apply group by decision;
59 select count(distinct decision) from apply group by decision='Y';
60 select major,count(sid) as no_of_applicant from Apply group by major;
61 select cname,count(sid) from apply group by cname;
62 select cname,major,count(sid) from Apply group by cname,major;
63 select cname,major,count(sid) from apply group by cname,major_having count(sid)>=2;
64

```

CNAME	MAJOR	COUNT(SID)
Berkeley	CS	2
Berkeley	biology	1
Stanford	history	2
Cornell	CS	1
Cornell	history	1
Cornell	bioengineering	1
Cornell	psychology	1
MIT	biolov	1

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```

45 select count(*) from Student;
46 select AVG(GPA) from Student;
47 Select MIN(GPA) as "Minimum GPA" from Student;
48 Select MAX(GPA) as "Maximum GPA" from student;
49 select count(*) from Student where GPA>3.7;
50 select MAX(GPA),MIN(GPA),AVG(GPA),SUM(GPA) from Student;
51 select count(distinct cname) from apply;
52 select count(*) from Apply;
53 select count(distinct major) from apply;
54 select AVG(distinct GPA) from Student;
55 select COUNT(*) from Student where GPA>3.4 and sizeH>1000;
56 select COUNT(*) from Apply where major='marine biology';
57 select decision,count(decision) from apply group by decision;
58 select count(distinct major) from Apply;
59 select count(distinct decision) from apply group by decision='Y';
60 select major,count(sid) as no_of_applicant from Apply group by major;
61 select cname,count(sid) from apply group by cname;
62 select cname,major,count(sid) from Apply group by cname,major;
63 select cname,major,count(sid) from apply group by cname,major_having count(sid)>=2;
64

```

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

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```

48 select AVG(GPA) from Student;
47 Select MIN(GPA) as "Minimum GPA" From Student;
48 Select Max(GPA) as "Maximum GPA" from student;
49 select count(*) from Student where GPA>3.7;
50 select MAX(GPA),MIN(GPA),AVG(GPA),SUM(GPA) from Student;
51 select count(DISTINCT cname) from Apply;
52 select count(DISTINCT cName) from Apply;
53 select count(DISTINCT major) from apply;
54 select count(DISTINCT GPA) from Student;
55 select COUNT(*) from Student where major='marine biology';
56 select COUNT(*) from Apply where major='marine biology';
57 select decision, count(decision) from apply group by decision;
58 select count(DISTINCT major) from Apply;
59 select count(DISTINCT decision) from apply group by decision;
60 select COUNT(*) from Apply where decision='Y';
61 select major, count(sID) as no_of_applicant from Apply group by major;
62 select cname, count(sID) from apply group by cname, major;
63 select cname, major, count(sID) from Apply group by cname, major;
64 select cname, major, count(sID) from apply group by cname, major having count(sID)>=2;
65 select cname, count(sID) from apply group by cname, major having count(sID)>=3;
66

```

CNAME	COUNT(SID)
Berkeley	2
Berkeley	1
Stanford	2
Cornell	1
Cornell	1
Cornell	1
MIT	1

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```

47 select MIN(GPA) as "Minimum GPA" from Student;
48 Select MAX(GPA) as "Maximum GPA" From Student;
49 select count(*) from Student where GPA>3.7;
50 select MAX(GPA),MIN(GPA),AVG(GPA),SUM(GPA) from Student;
51 select count(DISTINCT cname) from Apply;
52 select count(DISTINCT cName) from Apply;
53 select count(DISTINCT major) from apply;
54 select count(DISTINCT GPA) from Student;
55 select COUNT(*) from Student where major='marine biology';
56 select COUNT(*) from Apply where major='marine biology';
57 select decision, count(decision) from apply group by decision;
58 select count(DISTINCT major) from Apply;
59 select count(DISTINCT decision) from apply group by decision;
60 select COUNT(*) from Apply where decision='Y';
61 select major, count(sID) as no_of_applicant from Apply group by major;
62 select cname, count(sID) from apply group by cname, major;
63 select cname, major, count(sID) from Apply group by cname, major;
64 select cname, major, count(sID) from apply group by cname, major having count(sID)>=2;
65 select cname, count(sID) from apply group by cname, major having count(sID)>=3;
66 select state, count(cname) from college group by state having count(cname)>1;

```

STATE	COUNT(CNAME)
MA	2
NY	1
CA	2

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```
48 Select Max(GPA) as "Maximum GPA" from student;
49 select count(*) from Student where GPA>3.7;
50 select MAX(GPA),MIN(GPA),AVG(GPA),SUM(GPA) from Student;
51 select count(distinct cname) from Apply;
52 select count(distinct major) from apply;
53 select count(distinct major) from apply;
54 select AVG(distinct GPA) from Student;
55 select count(*) from Apply where decision='Y';
56 select COUNT(*) from Student where GPA>3.4 and sizeHS>1000;
57 select count(*) from apply where major='marine biology';
58 select decision,count(decision) from apply group by decision;
59 select count(distinct (major)) from Apply;
60 select count(decision) from apply group by decision='Y';
61 select major,count(sID) as no_of_applicant from Apply group by major;
62 select cname,major,count(sID) from apply group by cname,major;
63 select cname,major,count(sID) from apply group by cname, major having count(sID)>2;
64 select cname,major,count(sID) from apply group by cname, major having count(sID)>3;
65 select state,count(cname) from college group by state having count(cname)=1;
66 select state,cname from Student left outer join Apply on Student.sid=apply.sid group by sname having count(sname)>1;
67 select sname from Student left outer join Apply on Student.sid=apply.sid group by sname having count(sname)>3;
68
```

SNAME

- Amy
- Helen
- Craig
- Jay
- Irene

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```
48 SELECT COUNT(*) FROM student WHERE SNAME='Amy';
49 select MAX(GPA),MIN(GPA),AVG(GPA),SUM(GPA) from Student;
50 select count(distinct cname) from Apply;
51 select count(distinct major) from apply;
52 select count(distinct major) from apply;
53 select AVG(distinct GPA) from Student;
54 select count(*) from Apply where decision='Y';
55 select COUNT(*) from Student where GPA>3.4 and sizeHS>1000;
56 select COUNT(*) from Apply where major='marine biology';
57 select decision,count(decision) from apply group by decision;
58 select count(decision) from apply group by decision='Y';
59 select major,count(sID) as no_of_applicant from Apply group by major;
60 select cname,major,count(sID) from apply group by cname,major;
61 select cname,major,count(sID) from apply group by cname, major having count(sID)>2;
62 select cname,major,count(sID) from apply group by cname, major having count(sID)>3;
63 select state,count(cname) from college group by state having count(cname)=1;
64 select sname from Student left outer join Apply on Student.sid=apply.sid group by sname having count(sname)>1;
65 select sname from Student left outer join Apply on Student.sid=apply.sid group by sname having count(sname)>3;
66
```

SNAME

- Amy
- Bob
- Helen
- Gary
- Craig
- Fay
- Jay
- Doris

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