

```
1 create table College(cName varchar2(10), state varchar2(10), enrollment int);
2 create table Student(sID int, sName varchar2(10), GPA number(2,1), sizeHS int, DoB date);
3 create table Apply(sID int, cName varchar2(10), major varchar2(20), decision char(1));
4
5
```

Table created.

SQL Worksheet

 Clear

Actions 

 Save

```
1 insert into Student values(123, 'Amy', 3.9, 1000, '26-JUN-96');
2 insert into Student values(234, 'Bob', 3.6, 1500, '7-Apr-95');
3 insert into Student values(345, 'Craig', 3.5, 500, '4-Feb-95');
4 insert into Student values(456, 'Doris', 3.9, 1000, '24-July-97');
5 insert into Student values(567, 'Edward', 2.9, 2000, '21-Dec-96');
6 insert into Student values(678, 'Fay', 3.8, 200, '27-Aug-96');
7 insert into Student values(789, 'Gary', 3.4, 800, '8-Oct-96');
8 insert into Student values(987, 'Helen', 3.7, 800, '27-Mar-97');
9 insert into Student values(876, 'Irene', 3.9, 400, '7-Mar-97');
10 insert into Student values(765, 'Jay', 2.9, 1500, '8-Aug-98');
11 insert into Student values(654, 'Amy', 3.9, 1000, '26-May-96');
12 insert into Student values(543, 'Craig', 3.4, 2000, '27-Aug-98');
13
```

1 row(s) inserted.

1 row(s) inserted.

table.csv

Oracle Live SQL - SQL Worksheet x 

SQL Worksheet

 Clear

Actions ▾

 Save

```
1 select * from Student;
2
```

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

le.csv ^

le Live SQL - SQL Worksheet x



```
1 select * from College;
2
3
```

CNAME	STATE	ENROLLMENT
Stanford	CA	15000
Berkeley	CA	36000
MIT	MA	10000
Cornell	NY	21000
Harvard	MA	50040

...csv

Live SQL - SQL Worksheet

livesql.oracle.com/apex/f?p=590:1:11303383631578::NO:93::&success_msg=MCBkYXRhYmFzZSBvYmpIY3RzIGhhdmUgYmVlbiBkcm9wcGVkLiAgU2Vzc2lvbiBo.,aXN0b3...

SQL Worksheet

 Clear

Actions ▾

 Save

```
5 insert into Apply values(234, 'Berkeley', 'biology', 'N');
6 insert into Apply values(345, 'MIT', 'bioengineering', 'Y');
7 insert into Apply values(345, 'Cornell', 'bioengineering', 'N');
8 insert into Apply values(345, 'Cornell', 'CS', 'Y');
9 insert into Apply values(345, 'Cornell', 'EE', 'N');
10 insert into Apply values(678, 'Stanford', 'history', 'Y');
11 insert into Apply values(987, 'Stanford', 'CS', 'Y');
12 insert into Apply values(987, 'Berkeley', 'CS', 'Y');
13 insert into Apply values(876, 'Stanford', 'CS', 'N');
14 insert into Apply values(876, 'MIT', 'biology', 'Y');
15 insert into Apply values(876, 'MIT', 'marinebiology', 'N');
16 insert into Apply values(765, 'Stanford', 'history', 'Y');
17 insert into Apply values(765, 'Cornell', 'history', 'N');
18 insert into Apply values(765, 'Cornell', 'psychology', 'Y');
19 insert into Apply values(543, 'MIT', 'CS', 'N');
```

1 row(s) inserted.

1 row(s) inserted.

le.csv

le Live SQL - SQL Worksheet x +

SQL Worksheet

 Clear

Actions ▾

 Save

```
1 select * from Apply;
```

```
2
```

```
3
```

```
4
```

SID	CNAME	MAJOR	DECISION
123	Stanford	CS	Y
123	Stanford	EE	N
123	Berkeley	CS	Y
123	Cornell	EE	Y
234	Berkeley	biology	N
345	MIT	bioengineering	Y
345	Cornell	bioengineering	N
345	Cornell	CS	Y

table.csv



relating SQL - SQL Worksheet



SQL Worksheet

 Clear

Actions ▾

 Save

```
1 select sName, DoB from Student;
```

SNAME	DOB
Amy	26-JUN-96
Bob	07-APR-95
Craig	04-FEB-95
Doris	24-JUL-97
Edward	21-DEC-96
Fay	27-AUG-96
Gary	08-OCT-96
Helen	27-MAR-97

table.csv




Oracle Live SQL - SQL Worksheet ×



SQL Worksheet

 Clear

Actions 

 Save

```
1 select sName from Student where GPA>3.7;
```

SNAME
Amy
Doris
Fay
Irene
Amy

[Download CSV](#)
5 rows selected.

able.csv ^

SQL Worksheet

 Clear

Actions ▾

 Save

```
1 select sName from Student where sizeHS>=1000 and DoB > '31 December,1996';
```

SNAME
Doris
Jay
Craig

[Download CSV](#)
3 rows selected.

SQL Worksheet

 Clear

Actions 

 Save

```
1 select sName from Student where GPA between 2.9 and 3.9;
```

SNAME
Amy
Bob
Craig
Doris
Edward
Fay
Gary
Helen

le.csv ^

SQL Worksheet

 Clear

Actions 

 Save

```
1 select cName from College where state='MA';
```

CNAME
MIT
Harvard

[Download CSV](#)



2 rows selected.

e.csv

Live SQL - SQL Worksheet x



SQL Worksheet


 Clear Actions ▾  Save

1 `select sName from Student where GPA >2.0 and GPA<3.5;`


SNAME
Edward
Gary
Jay
Craig

[Download CSV](#)
4 rows selected.

SQL Worksheet

 Clear


Actions ▾

 Save


1	<code>select sName from Student where DoB>'1 July,1996' order by DoB;</code>	
---	---	--

SNAME
Fay
Gary
Edward
Irene
Helen
Doris
Jay
Craig

SQL Worksheet

 Clear

Actions ▾


 Save

1 select sID, cName from Apply where decision='Y';


SID	CNAME
123	Stanford
123	Berkeley
123	Cornell
345	MIT
345	Cornell
678	Stanford
987	Stanford
987	Berkeley

e.csv ^

SQL Worksheet

 Clear

Actions ▾

 Save

1 select sID, cName from Apply where cName = 'Stanford';

SID	CNAME
123	Stanford
123	Stanford
678	Stanford
987	Stanford
765	Stanford

[Download CSV](#)
5 rows selected.

SQL Worksheet

 Clear

Actions ▾

 Save

```
1 select cName from College where enrollment>10001;
```

CNAME
Stanford
Berkeley
Cornell
Harvard

[Download CSV](#)

4 rows selected.

able.csv

acle Live SQL - SQL Worksheet x



SQL Worksheet

Clear

Actions

Save


1 select cName from College where not state='CA';

CNAME
MIT
Cornell
Harvard


[Download CSV](#)
3 rows selected.

le.csv

SQL Worksheet

 Clear

Actions ▾

 Save

1	<code>select sName from Student where sizeHS>17000 and GPA<3.8;</code>	
2		
3		

no data found

SQL Worksheet

 Clear

Actions ▾

 Save

```
1 select * from Student;
```

```
2
```

```
3
```

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

le.csv

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SQL Worksheet

Clear

Actions ▾

Save

Run

```
1 select distinct major from Apply;
2
```

MAJOR
marinebiology
psychology
EE
biology
history
bioengineering
CS

[Download CSV](#)
7 rows selected.

SQL Worksheet

Clear

Actions ▾

Save

```
1 select sName from Student where sName like '___';
2
3
```

SNAME
Amy
Bob
Fay
Jay
Amy

[Download CSV](#)
5 rows selected.

SQL Worksheet

 Clear

Actions ▾

 Save

```
1 select sName from Student where sName like 'H_____';
2
3
```

SNAME

Helen

[Download CSV](#)

table.csv

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1 select sName from Student where sName like '__e_e%';

2

SNAME
Irene

Download CSV

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 Clear

Actions ▾

 Save

```
1 select sName from Student where sName like '%y';
2
```

SNAME
Amy
Fay
Gary
Jay
Amy

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Actions



```
1 select * from Student order by GPA;  
2
```

SID	SNAME	GPA	SIZEHS	DOB
765	Jay	2.9	1500	08-AUG-98
567	Edward	2.9	2000	21-DEC-96
543	Craig	3.4	2000	27-AUG-98
789	Gary	3.4	800	08-OCT-96
345	Craig	3.5	500	04-FEB-95
234	Bob	3.6	1500	07-APR-95

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1
2
3

```
select * from Student order by GPA asc, DoB desc;
```

SID	SNAME	GPA	SIZEHS	DOB
765	Jay	2.9	1500	08-AUG-98
567	Edward	2.9	2000	21-DEC-96
543	Craig	3.4	2000	27-AUG-98
789	Gary	3.4	800	08-OCT-96
345	Craig	3.5	500	04-FEB-95
234	Bob	3.6	1500	07-APR-95
987	Helen	3.7	800	27-MAR-97
678	Fay	3.8	200	27-AUG-96
456	Doris	3.9	1000	24-JUL-97

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1 select sID from Apply where cName in ('Stanford', 'Cornell', 'MIT');

SID
123
123
123
345
345
345

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SQL Worksheet

Clear

Actions ▾



```
1 delete from Apply where cName = 'Stanford';
2 select * from Apply;
3
```

5 row(s) deleted.

SID	CNAME	MAJOR	DECISION
123	Berkeley	CS	Y
123	Cornell	EE	Y
234	Berkeley	biology	N
345	MIT	bioengineering	Y

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Clear

Actions



```
1 delete from College where cName = 'Stanford';
2 select * from College;
3
```

1 row(s) deleted.

CNAME	STATE	ENROLLMENT
Berkeley	CA	36000
MIT	MA	10000
Cornell	NY	21000
Harvard	MA	50040

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Actions ▾



```
1 update Student set GPA=10*GPA/100+GPA;
2 select * from Student;
3
4
```

12 row(s) updated.

SID	SNAME	GPA	SIZEHS	DOB
123	Amy	4.3	1000	26-JUN-96
234	Bob	4	1500	07-APR-95
345	Craig	3.9	500	04-FEB-95
456	Doris	4.3	1000	24-JUL-97

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Actions



```
1 update Student set GPA=GPA+1.5 where GPA<3.5 and sizeHS>1500;
2 select * from Student;
3
4
```

1 row(s) updated.

SID	SNAME	GPA	SIZEHS	DOB
123	Amy	4.3	1000	26-JUN-96
234	Bob	4	1500	07-APR-95
345	Craig	3.9	500	04-FEB-95
456	Doris	4.3	1000	24-JUL-97

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1delete from Student where GPA<3.2;

2select * from Student;

3

4

0 row(s) deleted.

SID	SNAME	GPA	SIZEHS	DOB
123	Amy	4.3	1000	26-JUN-96
234	Bob	4	1500	07-APR-95
345	Craig	3.9	500	04-FEB-95
456	Doris	4.3	1000	24-JUL-97
567	Edward	4.7	2000	21-DEC-96
678	Fay	4.2	200	27-AUG-96
789	Gary	3.7	800	08-OCT-96
987	Helen	4.1	800	27-MAR-97

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