


































<input type="checkbox"/>	 Edit	 Copy	 Delete	351565322	Nancy Allen	Accounting	JR	19
<input type="checkbox"/>	 Edit	 Copy	 Delete	451519864	Mark Young	Finance	FR	18
<input type="checkbox"/>	 Edit	 Copy	 Delete	455798411	Luis Hernandez	Electrical Engineering	FR	17
<input type="checkbox"/>	 Edit	 Copy	 Delete	462156489	Donald King	Mechanical Engineering	SO	19
<input type="checkbox"/>	 Edit	 Copy	 Delete	550156548	George Wright	Education	SR	21
<input type="checkbox"/>	 Edit	 Copy	 Delete	552455318	Ana Lopez	Computer Engineering	SR	19
<input type="checkbox"/>	 Edit	 Copy	 Delete	556784565	Kenneth Hill	Civil Engineering	SR	21
<input type="checkbox"/>	 Edit	 Copy	 Delete	567354612	Karen Scott	Computer Engineering	FR	18
<input type="checkbox"/>	 Edit	 Copy	 Delete	573284895	Steven Green	Kinesiology	SO	19
<input type="checkbox"/>	 Edit	 Copy	 Delete	574489456	Betty Adams	Economics	JR	20
<input type="checkbox"/>	 Edit	 Copy	 Delete	578875478	Edward Baker	Veterinary Medicine	SR	21

snum sname major level age

51135593	Maria White	English	SR	21
60839453	Charles Harris	Architecture	SR	22
99354543	Susan Martin	Law	JR	20
112348546	Joseph Thompson	Computer Science	SO	19
115987938	Christopher Garcia	Computer Science	JR	20
132977562	Angela Martinez	History	SR	20
269734834	Thomas Robinson	Psychology	SO	18
280158572	Margaret Clark	Animal Science	FR	18
301221823	Juan Rodriguez	Psychology	JR	20
318548912	Dorthy Lewis	Finance	FR	18
320874981	Daniel Lee	Electrical Engineering	FR	17
322654189	Lisa Walker	Computer Science	SO	17
348121549	Paul Hall	Computer Science	JR	18

351565322	Nancy Allen	Accounting	JR	19	
451519864	Mark Young	Finance	FR	18	
455798411	Luis Hernandez	Electrical Engineering	FR	17	
462156489	Donald King	Mechanical Engineering	SO	19	
550156548	George Wright	Education	SR	21	
552455318	Ana Lopez	Computer Engineering	SR	19	
556784565	Kenneth Hill	Civil Engineering	SR	21	
567354612	Karen Scott	Computer Engineering	FR	18	
573284895	Steven Green	Kinesiology	SO	19	
574489456	Betty Adams	Economics	JR	20	
578875478	Edward Baker	Veterinary Medicine	SR	21	

(b) Report a student's name and his age.

SQL Command: SELECT S.sname, S.age FROM Student S;

Output:

✓ Showing rows 0 - 23 (24 total, Query took 0.0004 seconds.)

SELECT S.sname, S.age FROM Student S;

Profiling

[Edit inline]

[Edit]

[Explain SQL]

[Create PHP code]

Show all

Number of rows:

25

Filter rows:

Extra options

←

T

→

sname

age

Edit

Copy

Delete

Maria White

21

Edit

Copy

Delete

Charles Harris

22

Edit

Copy

Delete

Susan Martin

20

Edit

Copy

Delete

Joseph Thompson

19

Edit

Copy

Delete

Christopher Garcia

20

Edit

Copy

Delete

Angela Martinez

20

Edit

Copy

Delete

Thomas Robinson

18

Edit

Copy

Delete

Margaret Clark

18

Edit

Copy

Delete

Juan Rodriguez

20

Edit

Copy

Delete

Dorothy Lewis

18

Edit

Copy

Delete

Daniel Lee

17

Edit

Copy

Delete

Lisa Walker

17

Edit

Copy

Delete

Paul Hall

18

Edit

Copy

Delete

Nancy Allen

19

Edit

Copy

Delete

Mark Young

18

Edit

Copy

Delete

Luis Hernandez

17

Edit

Copy

Delete

Donald King

19

Edit

Copy

Delete

George Wright

21

Edit

Copy

Delete

Ana Lopez

19

Edit

Copy

Delete

Kenneth Hill

21

Edit

Copy

Delete

Karen Scott

18

Edit

Copy

Delete

Steven Green

19

Edit

Copy

Delete

Betty Adams

20

Edit

Copy

Delete

Edward Baker

21

sname age

Maria White 21

Charles Harris	22
Susan Martin	20
Joseph Thompson	19
Christopher Garcia	20
Angela Martinez	20
Thomas Robinson	18
Margaret Clark	18
Juan Rodriguez	20
Dorothy Lewis	18
Daniel Lee	17
Lisa Walker	17
Paul Hall	18
Nancy Allen	19
Mark Young	18
Luis Hernandez	17
Donald King	19
George Wright	21
Ana Lopez	19
Kenneth Hill	21
Karen Scott	18
Steven Green	19
Betty Adams	20
Edward Baker	21

(c) Find all students who is older than 21 years old.

SQL Command: SELECT sname, age FROM Student WHERE age > 21;

Output:

✓ Showing rows 0 - 0 (1 total, Query took 0.0003 seconds.)

```
SELECT sname, age FROM Student WHERE age > 21;
```

☐ Profiling [[Edit inline](#)] [[Edit](#)] [[Explain SQL](#)] [[Create PHP](#)]

☐ Show all | Number of rows: 25 ▼ Filter rows

Extra options

	sname	age
<input type="checkbox"/> Edit Copy Delete	Charles Harris	22

Charles Harris 22

(d) Find the name and age of students whose level is 'SR'.

SQL Command: SELECT sname, age, level FROM Student WHERE level IN ('SR');

Output:






















✓ Showing rows 0 - 6 (7 total, Query took 0.0005 seconds.)

```
SELECT sname, age, level FROM Student WHERE level IN ('SR');
```

☐ Profiling [[Edit inline](#)] [[Edit](#)] [[Explain SQL](#)] [[Create PHP code](#)] [[Refresh](#)]

☐ Show all | Number of rows: Filter rows:

Extra options

				sname	age	level
<input type="checkbox"/>	 Edit	 Copy	 Delete	Maria White	21	SR
<input type="checkbox"/>	 Edit	 Copy	 Delete	Charles Harris	22	SR
<input type="checkbox"/>	 Edit	 Copy	 Delete	Angela Martinez	20	SR
<input type="checkbox"/>	 Edit	 Copy	 Delete	George Wright	21	SR
<input type="checkbox"/>	 Edit	 Copy	 Delete	Ana Lopez	19	SR
<input type="checkbox"/>	 Edit	 Copy	 Delete	Kenneth Hill	21	SR
<input type="checkbox"/>	 Edit	 Copy	 Delete	Edward Baker	21	SR

sname age level

Maria White 21 SR

Charles Harris 22 SR

Angela Martinez 20 SR

George Wright 21 SR


Ana Lopez 19 SR

Kenneth Hill 21 SR

(e) Find the student who has student number 322654189.

SQL Command: SELECT * FROM Student WHERE snum IN ('322654189');

Output:




 Showing rows 0 - 0 (1 total, Query took 0.0004 seconds.)






```
SELECT * FROM Student WHERE snum IN ('322654189');
```

☐ Profiling [[Edit inline](#)] [[Edit](#)] [[Explain SQL](#)] [[Create PHP code](#)] [[Refresh](#)]

☐ Show all | Number of rows: 25 ▼ Filter rows:

Extra options

	snum	sname	major	level	age
<input type="checkbox"/>  Edit  Copy  Delete	322654189	Lisa Walker	Computer Science	SO	17

 ☐ Check all With selected:  Edit  Copy  Delete  Export

322654189 Lisa Walker Computer Science SO 17

(f) Find student's number and name for the major 'Computer Science'.

SQL Command: `SELECT snum, sname, major FROM Student WHERE major IN ('Computer Science');`

Output:

✓ Showing rows 0 - 3 (4 total, Query took 0.0007 seconds.)

`SELECT snum, sname, major FROM Student WHERE major IN ('Computer Science');`

☐ Profiling [\[Edit inline \]](#) [\[Edit \]](#) [\[Explain SQL \]](#) [\[Create PHP code \]](#) [\[Refresh \]](#)

☐ Show all | Number of rows:

25

 Filter rows:

Search this table

Extra options


	snum	sname	major
<input type="checkbox"/> Edit Copy Delete	112348546	Joseph Thompson	Computer Science
<input type="checkbox"/> Edit Copy Delete	115987938	Christopher Garcia	Computer Science
<input type="checkbox"/> Edit Copy Delete	322654189	Lisa Walker	Computer Science
<input type="checkbox"/> Edit Copy Delete	348121549	Paul Hall	Computer Science

snum	sname	major
112348546	Joseph Thompson	Computer Science
115987938	Christopher Garcia	Computer Science
322654189	Lisa Walker	Computer Science
348121549	Paul Hall	Computer Science

(g) Find the student number of students whose age is younger than 18 and at level 'JR'.

SQL Command: SELECT snum, age FROM Student WHERE level IN ('JR') AND age < 18;

Output: No output because no student numbers meet this condition

 MySQL returned an empty result set (i.e. zero rows). (Query took 0.0006 seconds.)


```
SELECT snum, age FROM Student WHERE level IN ('JR') AND age < 18;
```

☐ Profiling [\[Edit inline \]](#) [\[Edit \]](#) [\[Explain SQL \]](#) [\[Create PHP code \]](#) [\[Refresh \]](#)

snum	age
------	-----

(h) Find the student numbers of students whose age is 17 or 22.













SQL Command: SELECT snum, age FROM Student WHERE age IN (17,22);

 Showing rows 0 - 3 (4 total, Query took 0.0005 seconds.)

```
SELECT snum, age FROM Student WHERE age IN (17,22)
```

☐ Profiling [\[Edit inline \]](#) [\[Edit \]](#) [\[Explain SQL \]](#) [\[Create PHP code \]](#)

☐ Show all | Number of rows: 25

	snum	age
<input type="checkbox"/>  Edit  Copy  Delete	60839453	22
<input type="checkbox"/>  Edit  Copy  Delete	320874981	17
<input type="checkbox"/>  Edit  Copy  Delete	322654189	17
<input type="checkbox"/>  Edit  Copy  Delete	455798411	17

snum	age
60839453	22
320874981	17
322654189	17
455798411	17

(i) Find the student number of students whose name contains 'A' or 'a'.

SQL Command: `SELECT snum FROM Student WHERE sname LIKE '%A%' OR sname LIKE '%a%';`

Output:

✓ Showing rows 0 - 18 (19 total, Query took 0.0005 seconds.)



















`SELECT snum FROM Student WHERE sname LIKE '%A%' OR sname LIKE '%a%';`

☐ Profiling [[Edit inline](#)] [[Edit](#)] [[Explain SQL](#)] [[Create PHP code](#)] [[Refresh](#)]

☐ Show all | Number of rows: 25 ▾ | Filter rows:

Extra options

	snum
<input type="checkbox"/> Edit Copy Delete	51135593
<input type="checkbox"/> Edit Copy Delete	60839453
<input type="checkbox"/> Edit Copy Delete	99354543
<input type="checkbox"/> Edit Copy Delete	115987938
<input type="checkbox"/> Edit Copy Delete	132977562
<input type="checkbox"/> Edit Copy Delete	269734834
<input type="checkbox"/> Edit Copy Delete	280158572
<input type="checkbox"/> Edit Copy Delete	301221823
<input type="checkbox"/> Edit Copy Delete	320874981
<input type="checkbox"/> Edit Copy Delete	322654189
<input type="checkbox"/> Edit Copy Delete	348121549
<input type="checkbox"/> Edit Copy Delete	351565322
<input type="checkbox"/> Edit Copy Delete	451519864

<input type="checkbox"/>	 Edit	 Copy	 Delete	455798411
<input type="checkbox"/>	 Edit	 Copy	 Delete	462156489
<input type="checkbox"/>	 Edit	 Copy	 Delete	552455318
<input type="checkbox"/>	 Edit	 Copy	 Delete	567354612
<input type="checkbox"/>	 Edit	 Copy	 Delete	574489456
<input type="checkbox"/>	 Edit	 Copy	 Delete	578875478

snum

51135593

60839453

99354543

115987938

132977562

269734834

280158572

301221823

320874981

322654189

348121549

351565322

451519864

455798411

462156489

552455318

567354612

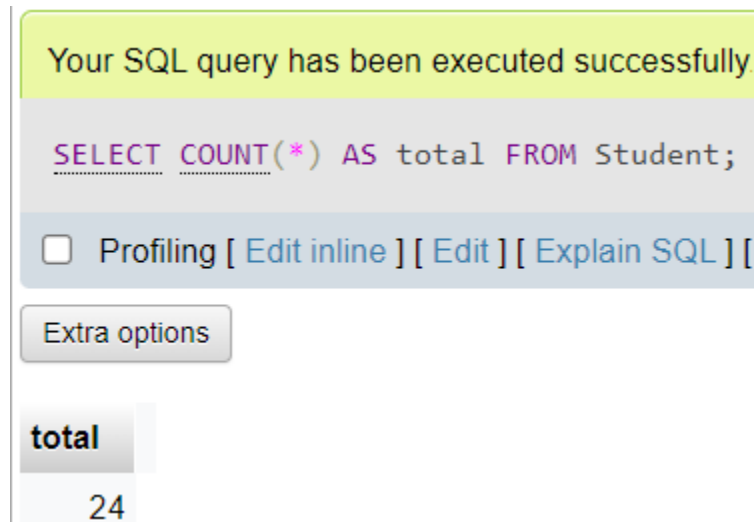
574489456

578875478

(j) Count the total number of students in the table.

SQL Command: SELECT COUNT(*) AS total FROM Student;

Output:



The screenshot shows a web-based SQL interface. At the top, a yellow banner states "Your SQL query has been executed successfully". Below this, the SQL query `SELECT COUNT(*) AS total FROM Student;` is displayed in a light blue box. Underneath the query, there is a checkbox for "Profiling" and several links: "[Edit inline]", "[Edit]", "[Explain SQL]", and "[]". A button labeled "Extra options" is positioned below the links. The query result is shown in a table with a single row. The first column is labeled "total" and contains the value "24".

total
24

24