

SQL SELECT STATEMENTS

LET'S SAY WE HAVE A TABLE WITH STUDENT DATA
COLUMNS ARE NAMED 'STUDENTID', 'FIRSTNAME', 'LASTNAME', 'GENDER' AND 'EMAIL'

StudentID	FirstName	LastName	Gender	Email
1	Janani	Ravi	F	janani@loonycorn.com
2	Swetha	Kolalapudi	F	swetha@loonycorn.com
3	Navdeep	Singh	M	navdeep@loonycorn.com
4	Vitthal	Srinivasan	M	vitthal@loonycorn.com

THIS IS A TABLE NAMED 'STUDENTS'

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THIS DATA IS SITTING IN A DATABASE SOMEWHERE

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SOMEBODY PUT IT THERE - BUT FOR
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THIS DATA IS SITTING IN A
DATABASE SOMEWHERE

SOMEBODY PUT IT THERE - BUT
FOR **NOW** NEVER MIND HOW IT
GOT THERE

HOW DO WE GET DATA OUT OF
THIS TABLE?

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THIS TABLE?

SQL SELECT STATEMENTS

ARE USED TO FETCH ROWS AND
COLUMNS OUT OF TABLES IN A DATABASE

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OKEY-DOKEY..HOW DO I TELL IT **WHAT**
ROWS AND COLUMNS TO FETCH?

SQL SELECT STATEMENTS

ARE USED TO FETCH ROWS AND COLUMNS OUT OF TABLES IN A DATABASE

OKEY-DOKEY..HOW DO I TELL IT WHAT ROWS AND COLUMNS TO FETCH?

AHA! THAT GETS US TO

THE SYNTAX OF A SELECT STATEMENT

THE SYNTAX OF A SELECT STATEMENT

THREE SIMPLE QUESTIONS THAT ANY
SELECT STATEMENT MUST ANSWER

WHICH
ROWS?

AND

WHICH
COLUMNS?

FROM

WHICH
TABLES?

THE SYNTAX OF A SELECT STATEMENT

WHICH ROWS? AND WHICH COLUMNS? FROM WHICH TABLES?

ASK YOURSELF THESE FOR ANY SQL QUERY
YOU NEED TO WRITE, AND YOU WILL ALWAYS
DO JUST FINE!

GET ALL THE EMAIL IDS OF FEMALE STUDENTS

StudentID	FirstName	LastName	Gender	Email
1	Janani	Ravi	F	<u>janani@loonycorn.com</u>
2	Swetha	Kolalapudi	F	<u>swetha@loonycorn.com</u>
3	Navdeep	Singh	M	<u>navdeep@loonycorn.com</u>
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GET ALL THE EMAIL IDS OF FEMALE STUDENTS

WHICH
ROWS?

WHICH
COLUMNS?

FEMALE
STUDENTS

EMAIL

StudentID	FirstName	LastName	Gender	Email
1	Janani	Ravi	F	janani@loonycorn.com
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GET ALL THE EMAIL IDS OF FEMALE STUDENTS

WHICH
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WHICH
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FEMALE
STUDENTS

EMAIL

STUDENTS

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GET ALL THE EMAIL IDS OF FEMALE STUDENTS

WHICH
ROWS?

WHICH
COLUMNS?

WHICH
TABLES?

FEMALE
STUDENTS

EMAIL

STUDENTS

```
SELECT EMAIL FROM STUDENTS WHERE GENDER = 'F' ;
```


WELCOME TO YOUR FIRST SQL QUERY!

```
SELECT EMAIL FROM  
STUDENTS WHERE  
GENDER = 'F';
```

SELECT-FROM-WHERE WILL GET YOU THERE!

```
SELECT EMAIL FROM  
STUDENTS WHERE  
GENDER = 'F' ;
```

THE SYNTAX OF A SELECT STATEMENT

THREE SIMPLE QUESTIONS THAT ANY
SELECT STATEMENT MUST ANSWER

WHICH
ROWS?

AND

WHICH
COLUMNS?

FROM

WHICH
TABLES?

WHICH
ROWS?

THOSE
WHERE
GENDER = 'F'

SELECT EMAIL FROM
STUDENTS WHERE

GENDER = 'F' ;

A LIST OF CONDITIONS
FOLLOWS THE WORD 'WHERE'.

WHICH
ROWS?

ALL

A LIST OF CONDITIONS FOLLOWS THE WORD 'WHERE'.

SELECT EMAIL FROM
STUDENTS ~~WHERE~~
~~GENDER = 'F'~~ ;

OMIT THE WHERE TO FETCH
ALL ROWS!

WHICH
ROWS?

ALL

A LIST OF CONDITIONS FOLLOWS THE WORD 'WHERE'.

SELECT EMAIL

FROM

STUDENTS ;

OMIT THE WHERE TO FETCH
ALL ROWS!

WHICH
ROWS?

THOSE WHERE GENDER
= 'F' AND FIRST
NAME = 'JANANI'

A LIST OF CONDITIONS FOLLOWS THE WORD 'WHERE'.

```
SELECT EMAIL FROM STUDENTS  
WHERE GENDER = 'F' AND  
FIRST NAME = 'JANANI' ;
```

USE AND, OR TO CHAIN
CONDITIONS TOGETHER

WHICH
ROWS?

THOSE WHERE GENDER
= 'F' OR FIRST NAME
= 'JANANI'

A LIST OF CONDITIONS FOLLOWS THE WORD 'WHERE'.

```
SELECT EMAIL FROM STUDENTS  
WHERE GENDER = 'F' OR  
FIRST NAME = 'JANANI' ;
```

USE AND, OR TO CHAIN
CONDITIONS TOGETHER

BACK TO YOUR FIRST SQL QUERY!

```
SELECT EMAIL FROM  
STUDENTS WHERE  
GENDER = 'F';
```

SELECT-FROM-WHERE WILL GET YOU THERE!

```
SELECT EMAIL FROM  
STUDENTS WHERE  
GENDER = 'F' ;
```

THE SYNTAX OF A SELECT STATEMENT

THREE SIMPLE QUESTIONS THAT ANY
SELECT STATEMENT MUST ANSWER

WHICH
ROWS?

AND

WHICH
COLUMNS?

FROM

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TABLES?

WHICH
COLUMNS?

EMAIL


```
SELECT EMAIL FROM  
STUDENTS WHERE  
GENDER = 'F' ;
```

THE LIST OF COLUMNS
FOLLOWS THE WORD 'SELECT'.

WHICH
COLUMNS?

ALL

THE LIST OF COLUMNS FOLLOWS THE WORD 'SELECT'.

SELECT  FROM

STUDENTS WHERE

GENDER = 'F' ;

USE * TO DENOTE ALL
COLUMNS

WHICH
COLUMNS?

FIRSTNAME,
LASTNAME

THE LIST OF COLUMNS FOLLOWS THE WORD 'SELECT'.

SELECT **FIRSTNAME , LASTNAME**

FROM STUDENTS

WHERE GENDER = 'F' ;

USE **COMMAS** TO SEPARATE
COLUMNS IN A LIST

BACK TO YOUR FIRST SQL QUERY!

```
SELECT EMAIL FROM  
STUDENTS WHERE  
GENDER = 'F' ;
```

SELECT-FROM-WHERE WILL GET YOU THERE!

```
SELECT EMAIL FROM  
STUDENTS WHERE  
GENDER = 'F' ;
```

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THREE SIMPLE QUESTIONS THAT ANY
SELECT STATEMENT MUST ANSWER

WHICH
ROWS?

AND

WHICH
COLUMNS?

FROM

WHICH
TABLES?

WHICH
TABLES?

STUDENTS

SELECT EMAIL FROM

STUDENTS WHERE

GENDER = 'F' ;

THE LIST OF TABLES
FOLLOWS THE WORD FROM.

WHICH
TABLES?

STUDENTS

MORE ON THIS IN A BIT, BUT ITS THE
SIMPLEST PART OF THE SELECT
STATEMENT.