Querying Data with the SELECT Statement



Jon Flanders

@jonflanders www.jonflanders.com

You can think of a SELECT statement as a question you are asking the database.

Example Questions

Who are all my contacts?

How many contacts do I have?

Who are all my contacts with a first name of Jon?

A Simple Query With SELECT



The SELECT List

Most of the time it contains a list of columns from a table you want to query.

Then, a FROM clause is required.

After every column comes a comma.

Except: no comma after the last column.

SELECT <COLUMN_NAME>, <COLUMN_NAME> FROM <TABLE_NAME>;

SELECT first_name, last_name FROM person



This wildcard "SELECT list" character pulls all the columns from a table



On my screen, these are both not centered, but are about 2/3 down the slide. Also, font sizes are different on either side.

FROM Clause

Defines the table you want to query

Multiple-Table FROM Clauses covered later in this course!

Qualifying Column Name with Table Name

SELECT first_name, last_name FROM person ;

SELECT person.first_name, person.last_name FROM person



Aliasing the Table Name

SELECT person.first_name, person.last_name FROM person

SELECT p.first_name, p.last_name FROM person p

Best Practice 13

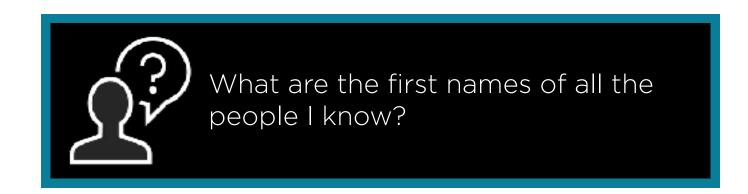
Ways to Constrain the Number of Results

WHERE CLAUSE

DISTINCT Qualifier

The WHERE clause is covered in the next module!

NOT DISTINCT



SELECT p.first_name FROM person p;

first_name

Jon

Jon

Fritz

Shannon

Jason

Jason

Brian

Brian

DISTINCT



first_name	
Jon	
Fritz	
Shannon	
Jason	
Brian	

SELECT DISTINCT p.first_name FROM person p;

Summary

Query data with the SELECT command
The SELECT list defines the columns
The FROM clause defines the table
DISTINCT constrains results to unique values