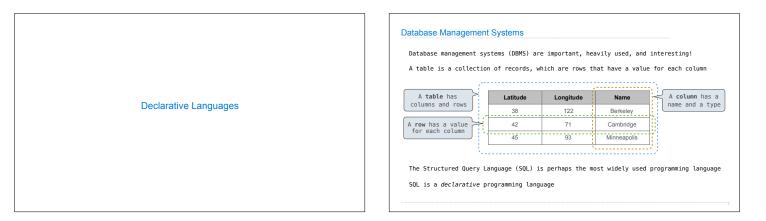


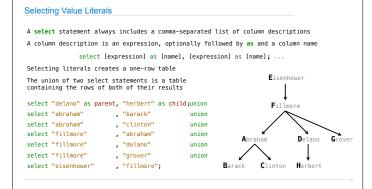
Announcements



n declarative langu	ages such as SQL	& Prolog:	Cities:		
A "program" is a des	scription of the	desired result	latitude	longitude	name
The interpreter figu	ures out how to g	generate the result	38	122	Berkeley
n imperative langua	ges such as Pyth	on & Scheme:	42	71	Cambridge
A "program" is a des	scription of com	putational processes	45	93	Minneapolis
The interpreter car	ries out executio	on/evaluation rules			
reate table cities	as			region	name
select 38 as latit	ude, 122 as long	itude, "Berkeley" as nam	e union	west coast	Berkeley
select 42,	71,	"Cambridge"	union	other	Minneapolis
select 45,	93,	"Minneapolis";		other	Cambridge
lect "west coast"	as region. name	from cities where longit	ude >= 115	union	
	•	from cities where longit			

Γ

SQL Overview	Getting Started with SQL
The SQL language is an ANSI and ISO standard, but DBMS's implement custom variants -A select statement creates a new table, either from scratch or by projecting a table -A create table statement gives a global name to a table -Lots of other statements exist: analyze, delete, explain, insert, replace, update, etc. -Most of the important action is in the select statement	Install sqlite (version 3.8.3 or later): <u>http://sqlite.org/download.html</u> Use sqlite online: <u>http://kripken.github.io/sql.js/GUI/</u>
Today's theme:	
http://awhimsicalbohemian.typepad.com/.a/Sa00e5538h84f3883301538dfa8f19978bm880kri	



**Projecting Tables** 

## Naming Tables

SQL is often used as an interactive language

The result of a select statement is displayed to the user, but not stored A create table statement gives the result a name

Parents:

De

Child barack

clinton

herbert

abraham

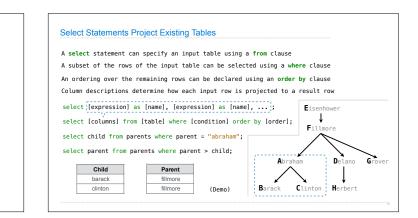
delano

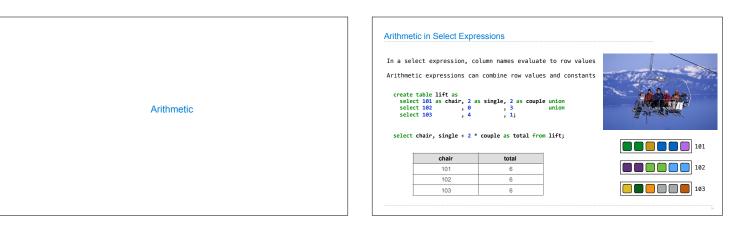
grover

fillmore

create table [name] as [select statement];

			ratent	ł
create table parents as			abraham	Ī
select "delano" as parent	, "herbert" as	child union	abraham	T
select "abraham"	, "barack"	union	delano	Ī
select "abraham"	, "clinton"	union	fillmore	t
select "fillmore"	, "abraham"	union		ļ
select "fillmore"	, "delano"	union	fillmore	l
select "fillmore"	, "grover"	union	fillmore	
select "eisenhower"	"fillmore";		eisenhower	Ī
		-		1





.) Write a select s ble of the <b>word</b> an						ct statement for th e powers of two
	"nine"	, 1	, <b>0</b>	, 0	, <mark>8</mark> ;	
select	"eight"	, <u>0</u>				union
	"seven"	, 1	, 2		, 0	union
	"five" "six"		, 0 , 2	, 4	, 0 , 0	union union
select	"four"	, 0	, 0	, 4	, 0	union
select	"three"	, 1	, 2	, 0	, 0	union
select		, 1 , 0	, 0 , 2	, 0 , 0	, 0 , 0	union
select	"zero" as wo					ight union union