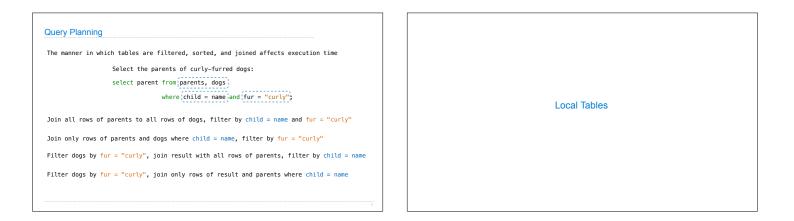
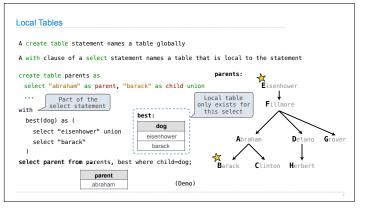


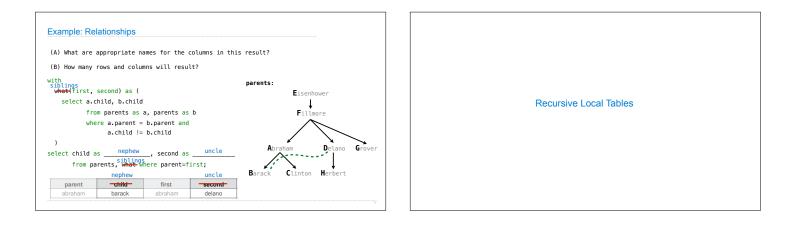
Announcements

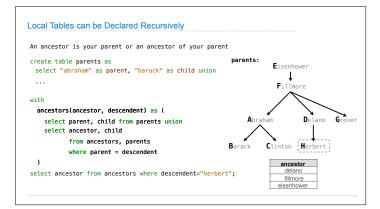
Database Management Systems

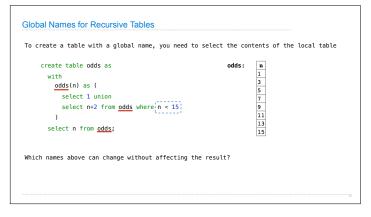


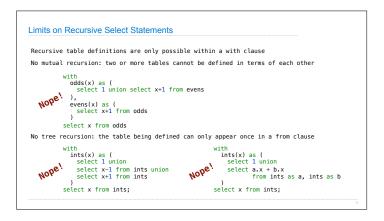
A create table statemen	t names a table globa	ally		
create table parents as		р	arents:	
select "abraham" as pa	arent, "barack" as ch	ild union	Parent	Child
select "abraham"	, "clinton"	union	abraham	barack
select "delano"	, "herbert"	union	abraham	clinton
select "fillmore"	, "abraham"	union	delano	herbert
select "fillmore"	, "delano"	union	fillmore	abraham
select "fillmore"	, "grover"	union		
select "eisenhower"	"fillmore",		fillmore	delano
			fillmore	grover
		T T	eisenhower	fillmore

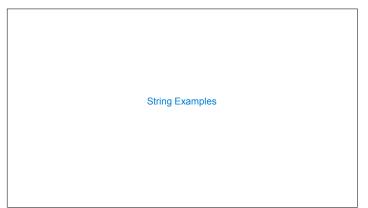


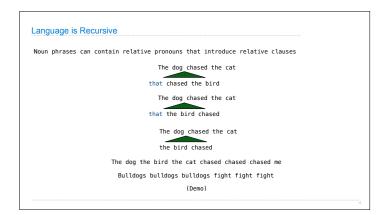


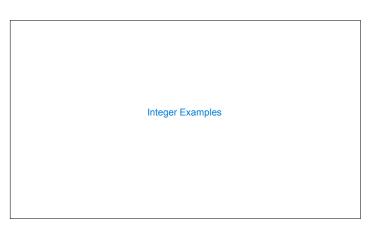












Input-Output Tables	Example: Pythagorean Triples				
A table containing the inputs to a function can be used to map from output to input	All triples a, b, c such that $a^2 + b^2 = c^2$	а	b	c	
create table pairs as with	with	3	4	5 13	_
i(n) as ( select 1 union	i(n) as ( select 1 union select n+1 from i where n < 20		8	10	-
select n+1 from i where n < 50 )	)	8	15 12	17 15	-
select a.n as x, b.n as y from i as a, i as b where a.n <= b.n;	select a.n as a, b.n as b, c.n as c from i as a, i as b, i as c	12	16	20	
What integers can I add/multiply together to get 24?	where and <pre>a.n + b.n*b.n = c.n*c.n;</pre>			/	/
(Demo)				<u> </u>	3

omputing the next Fibonacci number requires both the previou	us and cu	rrent nu	mbers	
create table fibs as		Loc	al tabl	.e
with fibs:	n	fib:	previous	curren
fib(previous, current) as (	0		0	1
select 0, 1 union select current, previous+current from fib where current <=			1	1
			1	2
			2	3
			3	5
)	5		5	8
selectpreviousas n from fib;	8		8	13
30 CCCC US II (10)	13		13	21

A Very Interesting Number
The mathematician G. H. Hardy once remarked to the mathematician Srinivasa Ramanujan
(Demo)