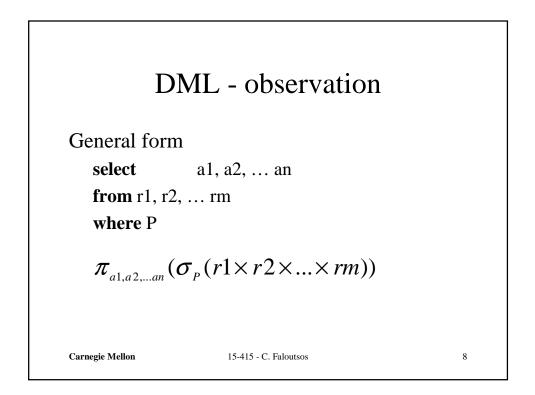
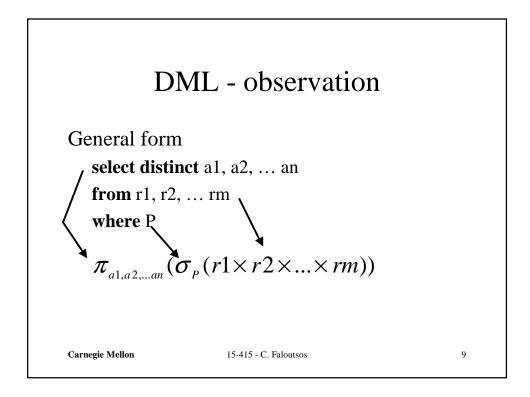
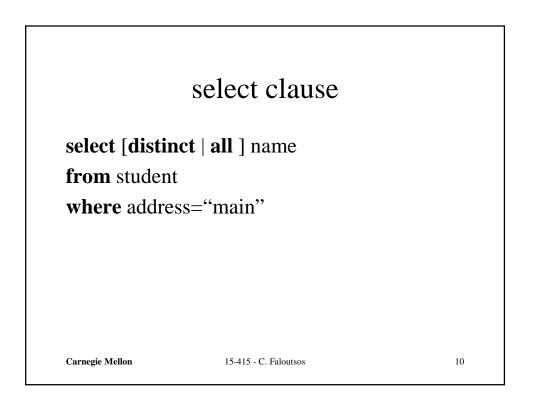


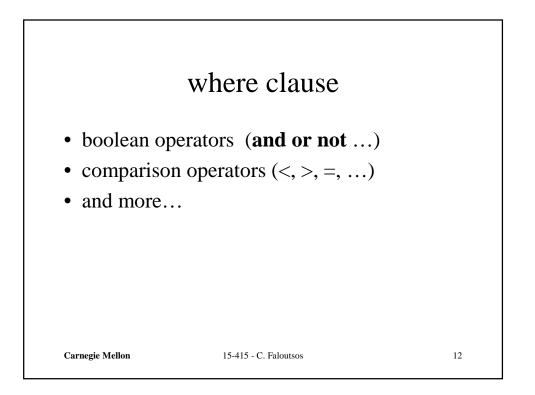
DML - observation				
General form select a1, a2, an from r1, r2, rm where P				
equivalent rel. algebra query?				
Carnegie Mellon 15-415 - C. Faloutsos	7			

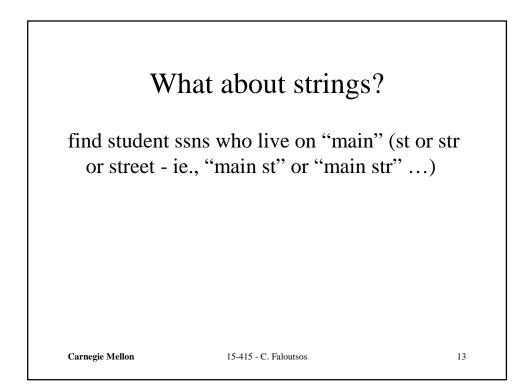


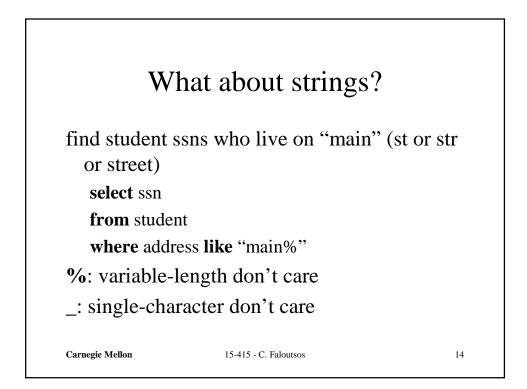




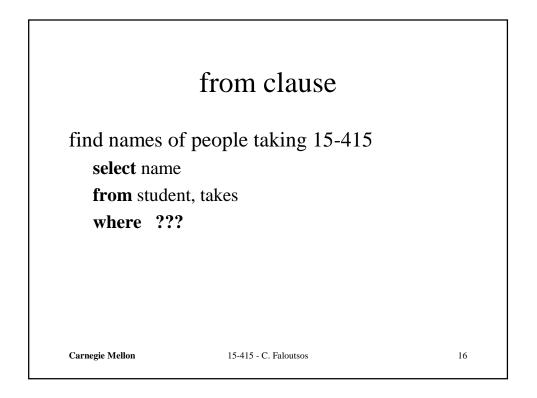
	where clause	
find ssn(s) of select ssn	all "smith"s on "main"	,
from student		
where address name = "sr	s="main" and nith"	
nume – si		
Carnegie Mellon	15-415 - C. Faloutsos	11



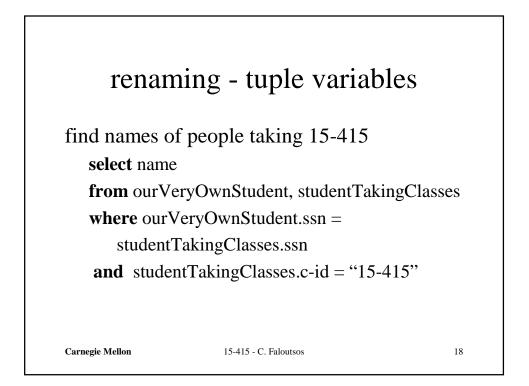




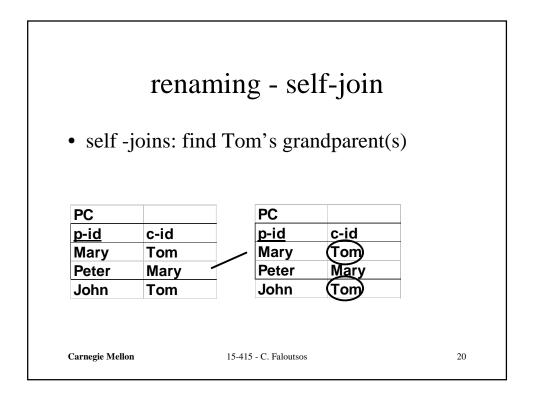
		from	clau	ise		
find a s			- 1-:	15 11	5	
find nat	mes of	people t	aking	15-41	3	
STUDENT				CLASS		
<u>Ssn</u>	Name	Addres	S	c-id	c-name	units
123	smith	main st	r	15-413	s.e.	
	jones	forbes a	ave	15-412		
234						
234		TAKES				
234		TAKES <u>SSN</u>	<u>c-id</u>	grade		
234		<u>SSN</u>				

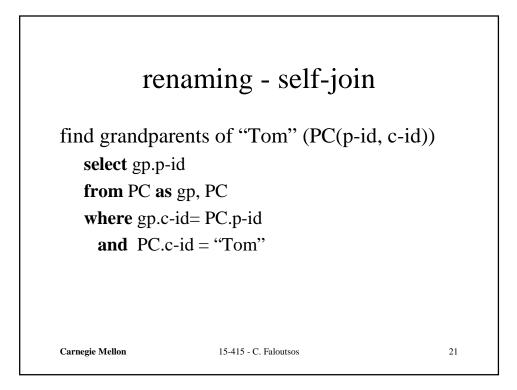


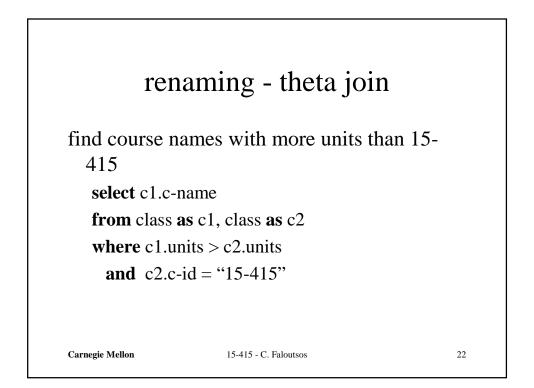
	from clause	
select name from studer where stude		
Carnegie Mellon	15-415 - C. Faloutsos	17

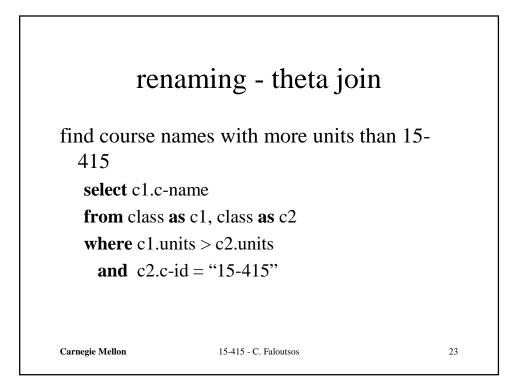


renam	ing - tuple variabl	es
select name from ourVer	people taking 15-415 yOwnStudent as S, tingClasses as T	
where S.ssn	=T.ssn	
and T.c-10	l = "15-415"	
Carnegie Mellon	15-415 - C. Faloutsos	19



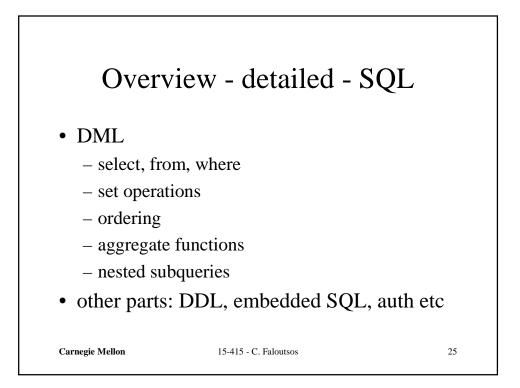


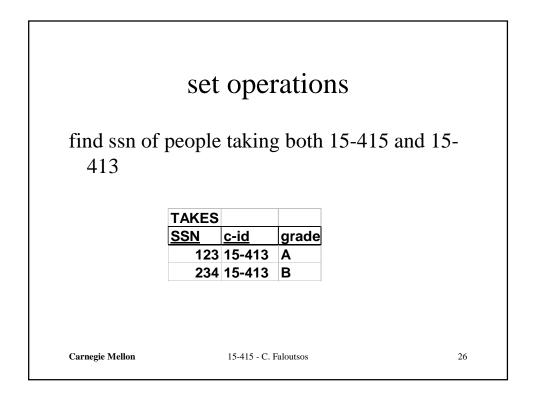


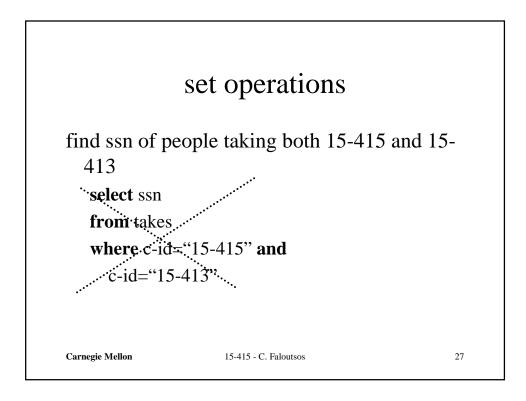


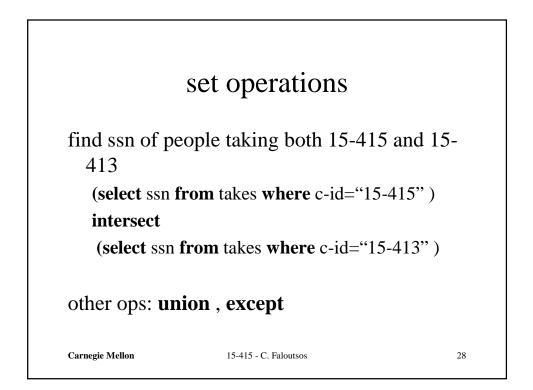
find course names with more units than 15-415
select c1.name
from class as c1, class as c2
where c1.units > c2.units
and c2.c-id = "15-415"

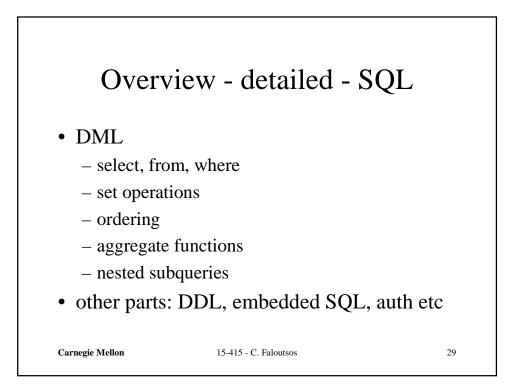
$$\begin{cases} t \mid \exists c1 \in CLASS \quad \exists c2 \in CLASS \quad (\\ c1[c - id] = 15 - 415 \land \\ c2[units] > c1[units] \land \\ t[c - name] = c2[c - name]) \end{cases}$$

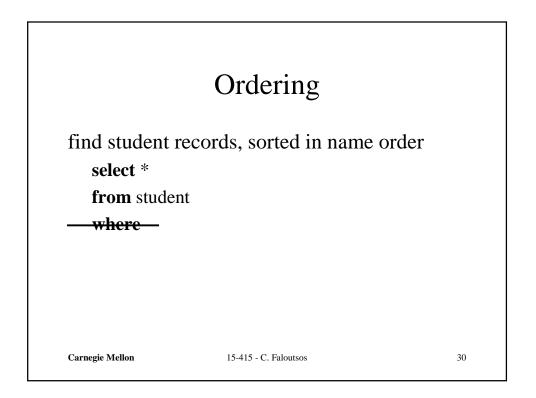












	Ordering	
find student re- select * from student order by nan	cords, sorted in name or ne asc	der
asc is the def	fault	
Carnegie Mellon	15-415 - C. Faloutsos	31

