Carnegie Mellon Univ. Dept. of Computer Science 15-415 - Database Applications

> C. Faloutsos Rel. model - SQL part2

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DML	- nested subquerie	es
find names of	students of 15-415	
select name		
from studen	t	
where		
select ssn		
from take	s	
where c-i	id ="15-415"	
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, - nes	ted s	subai	ieries	
ssn of	the stu	udent v	with the	
А				
		CLASS	;	
Addres	SS	c-id	c-name	units
main s	str	15-413	s.e.	2
forbes	ave	15-412	0.S.	2
1	TAKES			
5	SSN	c-id	grade	
	123	15-413	Α	
	234	15-413	в	
	A - nes e ssn of A Addree forbes	A - nested s e ssn of the str A Address main str forbes ave TAKES SSN 123	Address Address forbes ave A Address Forbes ave Address CLASS C-id 15-413 15-412 123 15-413	Address Address forbes ave TAKES SSN c-id grade 12315-413 A















DML	- derived relation	S
find the ssn w	vith the highest GPA	
select ssn, a group by ss	vg (grade) from takes	
having avg	(grade) >= all	
(select a	avg(grade)	
from t	akes group by ssn)	
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	Ssn	Gpa
select ssn ona	123	3.5
	678	3.3
from helpfulTable		
where gpa in (select m	ax (gpa)	
from help	fulTable)	
1		
where gpa in (select m from help	ax (gpa) fulTable)	

















