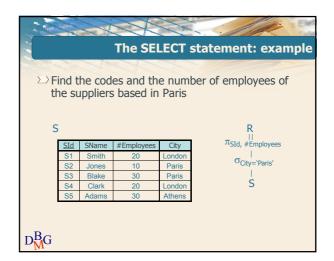
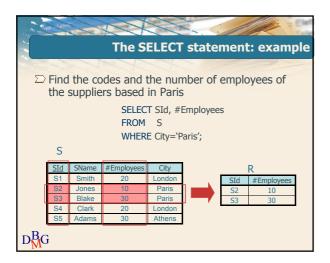
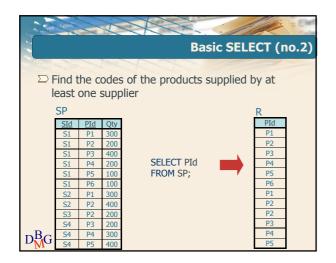


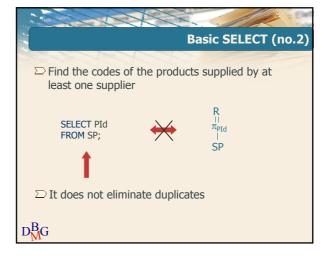
				Sur	DD	lier	and	pa
8. N								
Ρ						SP		
PId	PName	Color	Size	Store	1	SId	PId	Qty
P1	Jumper	Red	40	London	1	S1	P1	300
P2	Jeans	Green	48	Paris		S1	P2	200
P3	Blouse	Blue	48	Rome		S1	P3	400
P4	Blouse	Red	44	London		S1	P4	200
P5	Skirt	Blue	40	Paris		S1	P5	100
P6	Shorts	Red	42	London		S1	P6	100
						S2	P1	300
S						S2	P2	400
SId	SName	#Employee	s Cit	1		S3	P2	200
<u>S10</u>	Smith	20	Lond			S4	P3	200
S2	Jones	10	Par	-		S4	P4	300
- 52 - S3	Blake	30	Par	-		S4	P5	400
53 S4	Clark	20	Lond	-				
S5	Adams	30	Athe	ns				

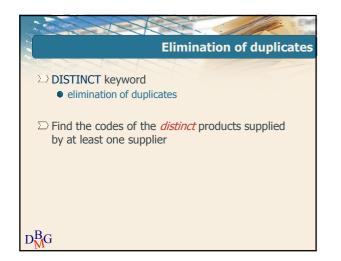


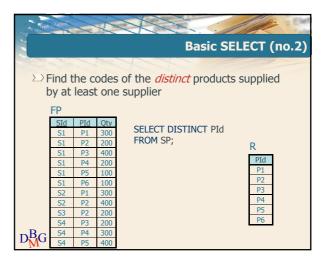


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Σ	⊃ Find	the cod	les of	all p	roducts i	in the d	ataba	se
		SELEC FROM				R_{PId}^{II}		
	Р					Р	R	
	PId	PName	Color	Size	Store		PId	
	P1	Jumper	Red	40	London		P1	
	P2	Jeans	Green	48	Paris		P2	
	P3	Blouse	Blue	48	Rome		P3	
	P4	Blouse	Red	44	London	· · · · ·	P4	
	P5	Skirt	Blue	40	Paris		P5	
-	FU	Shorts	Red	42	London		P6	
	P6		Red	42	London		P6	



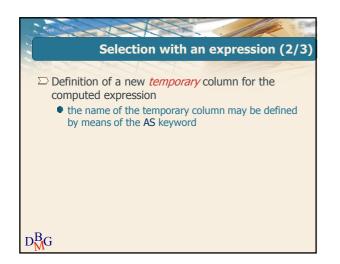


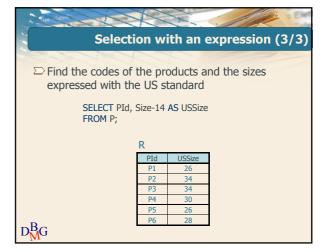


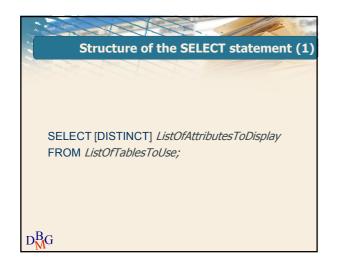


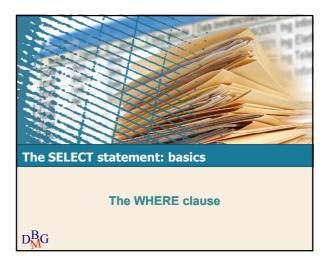
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			Selec	tion	of all i	information
∑ Find a		ormation PId, PNam				
	OM P;		10, 00101	, weig	11, 50010	
or			ECT * DM P;			
	R	T NO	,			
	PId	PName	Color	Size	Store	
	P1	Jumper	Red	40	London	
	P2	Jeans	Green	48	Paris	
	P3	Blouse	Blue	48	Rome	
	P4	Blouse	Red	44	London	
D	P5	Skirt	Blue	40	Paris	
DMG	P6	Shorts	Red	42	London	

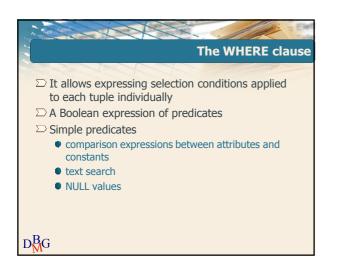
	- And	atien Canada	Z	×	N.			K	Elet
	17-473		Select	tion	with a	n expr	essio	on (1	L/3)
		nd the co pressed SELE FROM	with t CT PId,	he US	standa	rd	e size	S	
	PId	PName	Color	Size	Store		PId		
	P1	Jumper	Red	40	London		P1	26	
	P2	Jeans	Green	48	Paris		P2	34	
	P3	Blouse	Blue	48	Rome		P3	34	
	P4	Blouse	Red	44	London		P4	30	
	P5	Skirt	Blue	40	Paris		P5	26	
	P6	Shorts	Red	42	London		P6	28	
D	G								

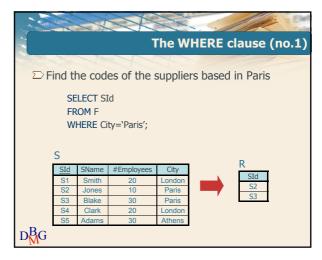


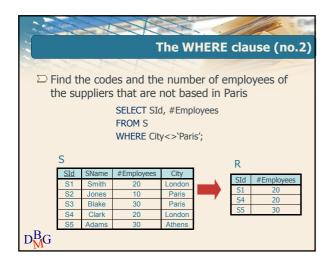


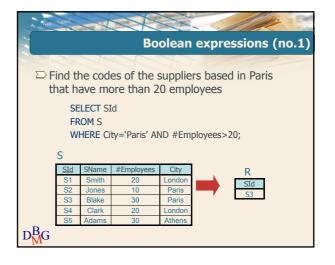


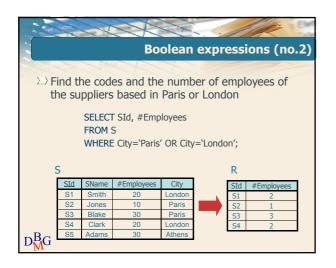


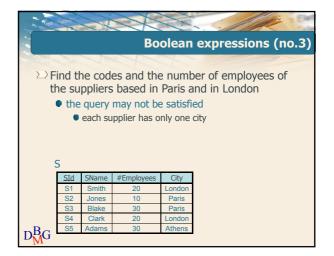


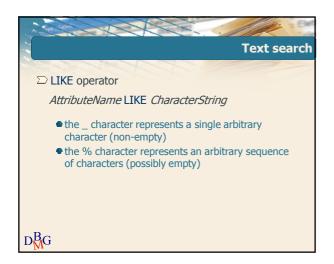


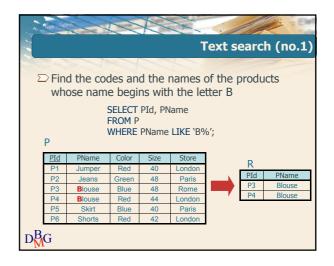


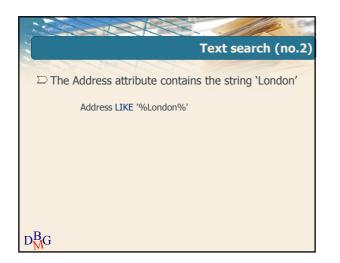


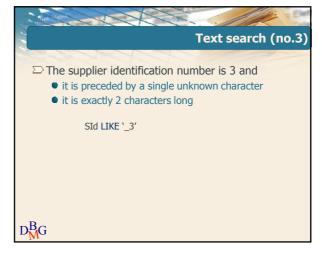


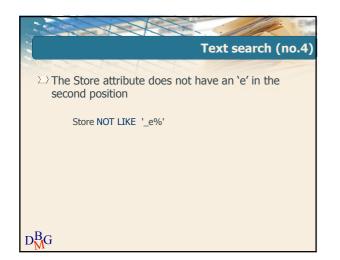


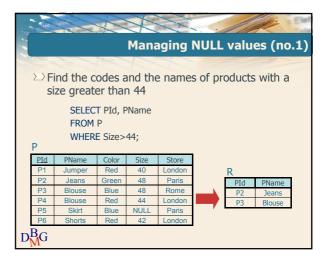


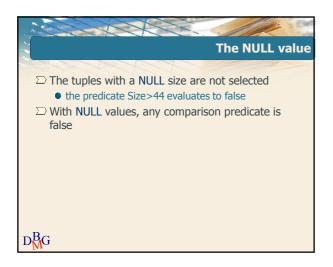


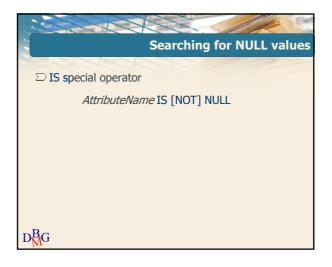




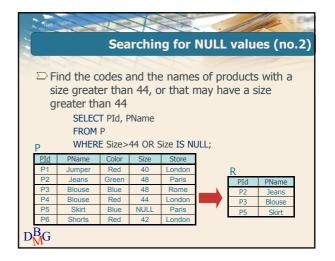


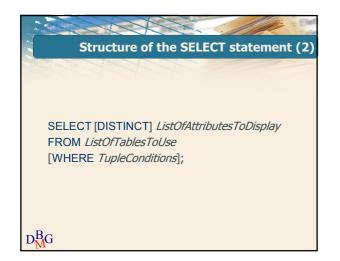






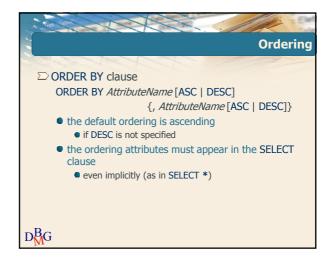
	-	Appen and a	Sea	rchin	g for	NULL values (no.1)
		hose size		hknowr		s of the products
		FROM	Р			
	P	WHERI	E Size I	S NULL;		
1	PId	PName	Color	Size	Store	
	P1	Jumper	Red	40	London	
	P2	Jeans	Green	48	Paris	R
	P3	Blouse	Blue	48	Rome	PId PName
	P4	Blouse	Red	44	London	P5 Skirt
	P5	Skirt	Blue	NULL	Paris	I S Skit
	P6	Shorts	Red	42	London	
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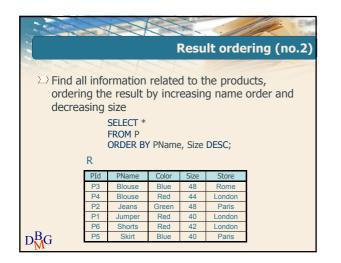


				Res	ult orde	ring	(no.1
					and thei	r sizes	s,
0	rdering t	ne resi	lit by	decreas	ing size		
		SEL	ECT PI	d, Size			
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Р		ORL	EK BY	Size DESC	-;	R	
PId	PName	Color	Size	Store	1	PId	Size
P1	Jumper	Red	40	London		P2	48
P2	Jeans	Green	48	Paris		P3	48
P3	Blouse	Blue	48	Rome		P4	44
P4	Blouse	Red	44	London		P6	42
	Skirt	Blue	40	Paris		P1	40
P5						P5	40

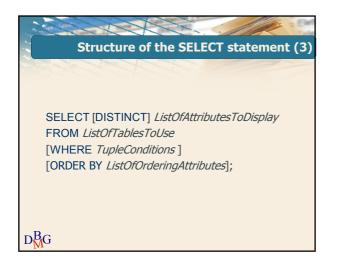


				Resu	lt orde	ring (no.2)
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	PId	PName	Color	Size	Store	
	P1	Jumper	Red	40	London	
	P2	Jeans	Green	48	Paris	
	P3	Blouse	Blue	48	Rome	
	P4	Blouse	Red	44	London	
	P5	Skirt	Blue	40	Paris	
	P6	Shorts	Red	42	London	

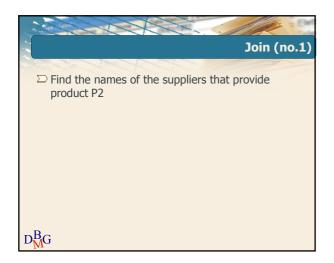
				Resu	lt orde	ring (no.2)
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	R					
	PId	PName	Color	Size	Store	
	P3	Blouse	Blue	48	Rome	
	P4	Blouse	Red	44	London	
	P2	Jeans	Green	48	Paris	
	P1	Jumper	Red	40	London	
D	P6	Shorts	Red	42	London	
DBG	P5	Skirt	Blue	40	Paris	

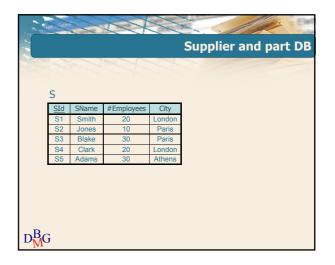


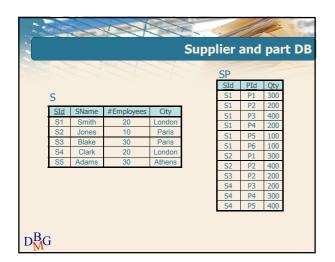
1.4				Re	sult or	derin	g (no
e	expresse esult by SELI FRO	d with increa ECT PId,	the L sing s Size-1	JS stand size 14 AS USS	ts and th ard, orde ^{ize}	ering t	
PId	PName	Color	Size	Store		R PId	USSize
P1	Jumper	Red	40	London		P5	26
	Jeans	Green	48	Paris		P1	26
P2	Discost	Blue	48	Rome		P6	28
	Blouse		44	London	· · · · ·	P4	30
P2	Blouse	Red				-	
P2 P3		Red Blue	40	Paris		P2	34

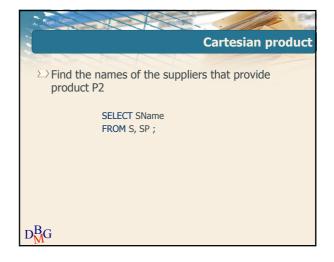












S.SId S.SName

S1 S1

S1

S1

S1

S1

S1

S2

S2

D

Smith Smith

Smith

Smith

Smith

Smith

Smith

Jones

Jones

					J	oin (ı
		Z				
S.SId	S.SName	= S.#Empl	S.City	(SP.SId)	SP.PId	SP.Qt
51	Smith	20	London	51	P1	300
S1	Smith	20	London	S1	P2	200
S1	Smith	20	London	S1	P3	400
S1	Smith	20	London	S1	P4	200
S1	Smith	20	London	S1	P5	100
S1	Smith	20	London	S1	P6	100
S1	Smith	20	London	S2	P1	300
S2	Jones	10	Paris	S1	P1	300
S2	Jones	10	Paris	S2	P1	300
0						

Join (no.1)
Find the names of the suppliers that provide product P2
SELECT SName FROM S, SP WHERE S.SId = SP.SId
TableName.AttributeName
D <mark>B</mark> G

SP.SId

S1

S1

S1

S1

S1

S1

S2

S1

S2

S.#Empl S.City

20 20

20

20

20

20

20

10

10

London

London

London

London

London

London

London

Paris

Paris

Cartesian product

SP.Qty

300

200

400

200

100

100

300

300

300

SP.PId

P1

P2

P3

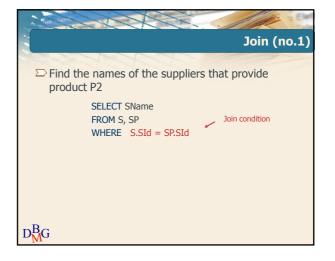
P5

P6

P1

P1

P1



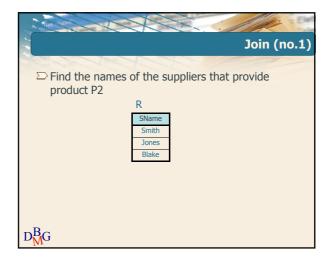
					J	oin (n
		1				
	Chiama	=	C City	(SP.SId)	SP.PId	CDOF
S.SId	S.SName	S.#Empl	S.City			SP.Qty
S1	Smith	20	London	51	P1	300
S1	Smith	20	London	S1	P2	200
S1	Smith	20	London	S1	P3	400
S1	Smith	20	London	S1	P4	200
S1	Smith	20	London	S1	P5	100
S1	Smith	20	London	S1	P6	100
S1	Smith	20	London	S2	P1	300
S2	Jones	10	Paris	S1	P1	300
S2	Jones	10	Paris	S2	P1	300
<u></u>						

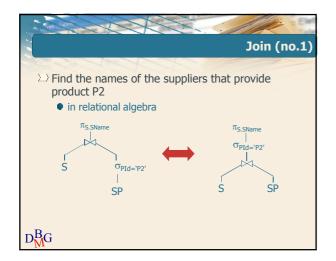
Join (no								
S.SId	S.SName	S.#Empl	S.City	SP.SId	SP.PId	SP.Qty		
S1	Smith	20	London	S1	P1	300		
S1	Smith	20	London	S1	P2	200		
S1	Smith	20	London	S1	P3	400		
S1	Smith	20	London	S1	P4	200		
S1	Smith	20	London	S1	P5	100		
S1	Smith	20	London	S1	P6	100		
S2	Jones	10	Paris	S2	P1	300		
S2	Jones	10	Paris	S2	P2	400		
S3	Blake	30	Paris	S3	P2	200		
S4	Clark	20	London	S4	P3	200		
S4	Clark	20	London	S4	P4	300		
	Clark	20	London	S4	P5	400		

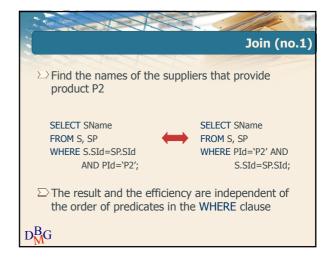


						Jo	oin (no).
2			4	1	5	SP.PId='P2'		~
ſ	S.SId	S.SName	S.#Empl	S.City	SP.SId	(SP.PId)	SP.Qty	1
ľ	S1	Smith	20	London	S1	PI	300	
Ĩ	S1	Smith	20	London	S1	P2	200	Ì
Ì	S1	Smith	20	London	S1	P3	400	Ī
ľ	S1	Smith	20	London	S1	P4	200	
ľ	S1	Smith	20	London	S1	P5	100	
ľ	S1	Smith	20	London	S1	P6	100	
ľ	S2	Jones	10	Paris	S2	P1	300	
Ì	S2	Jones	10	Paris	S2	P2	400	Ì
İ	S3	Blake	30	Paris	S3	P2	200	İ
İ	S4	Clark	20	London	S4	P3	200	İ
ľ	S4	Clark	20	London	S4	P4	300	
	S4	Clark	20	London	S4	P5	400	1

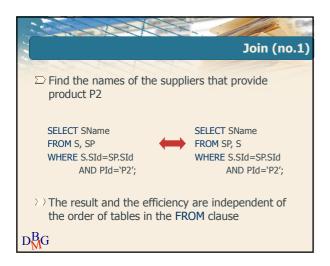


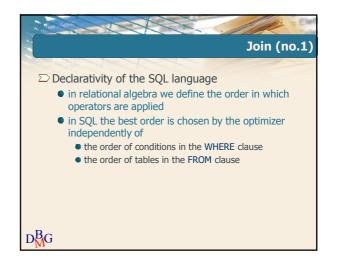




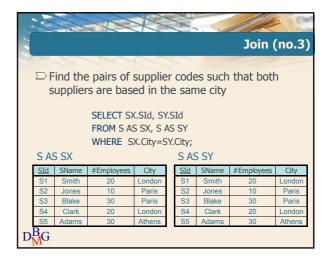


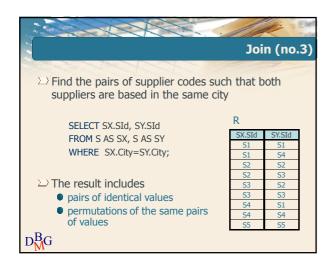
Elena Baralis and Tania Cerquitelli ©2013 Politecnico di Torino

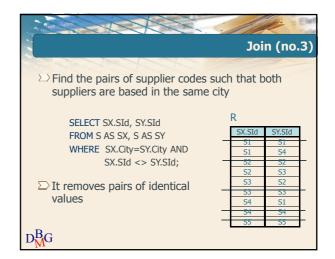


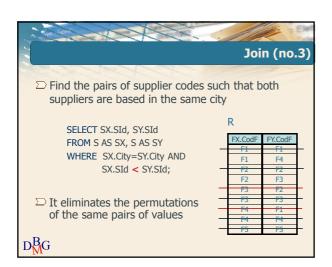


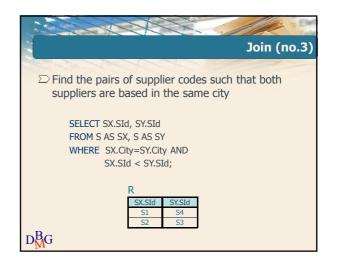






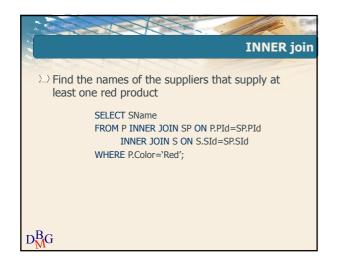


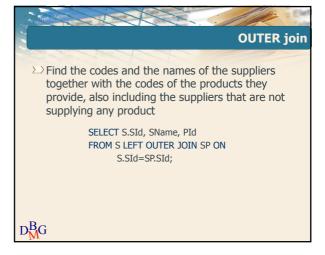




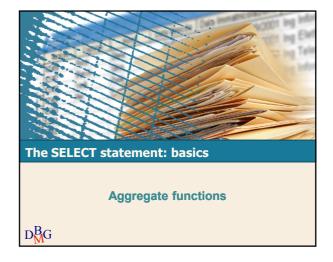


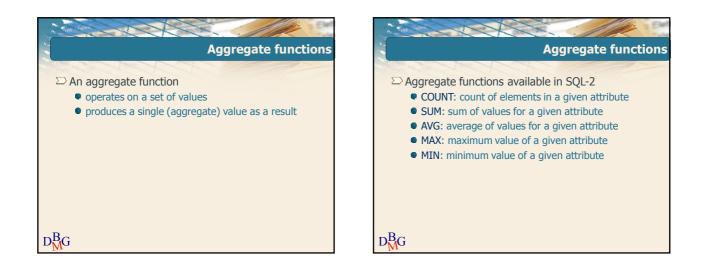


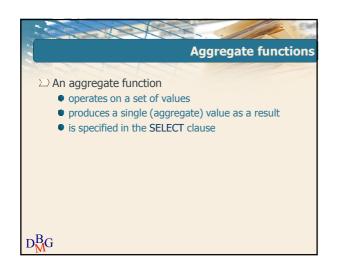


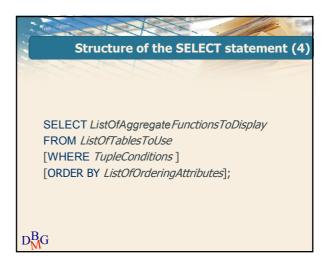


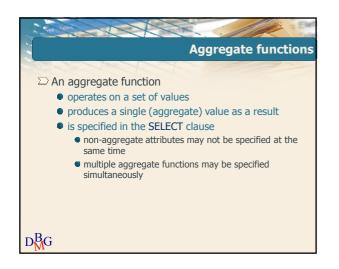
				OUTER join
	R			
	S.SId	S.SName	SP.PId	
	S1	Smith	P1	
	S1	Smith	P2	
	S1	Smith	P3	
	S1	Smith	P4	
	S1	Smith	P5	
	S1	Smith	P6	
	S2	Jones	P1	
	S2	Jones	P2	
	S3	Blake	P2	
	S4	Clark	P3	
	S4	Clark	P4	
	S4	Clark	P5	
DBG	S5	Adams	NULL	

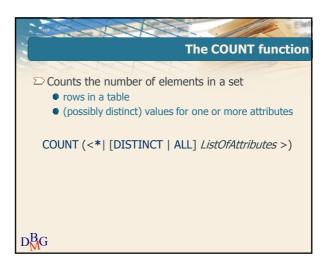


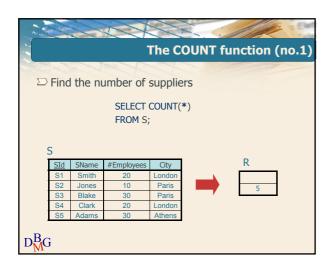


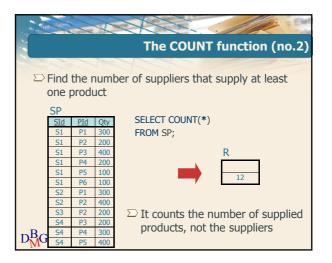


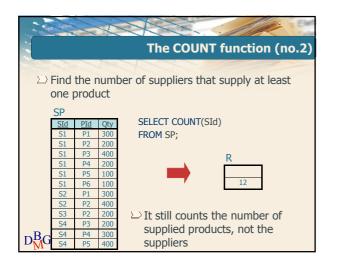


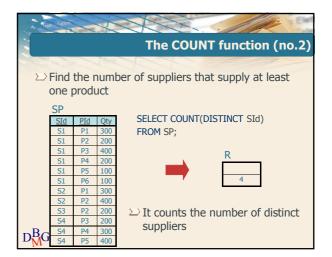


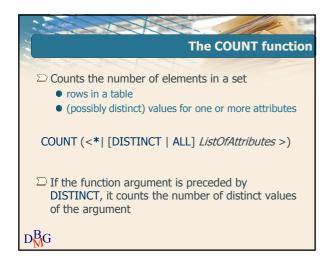


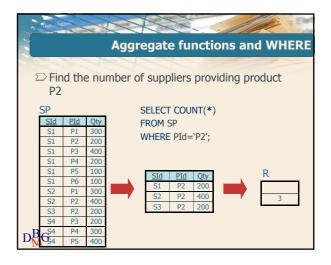


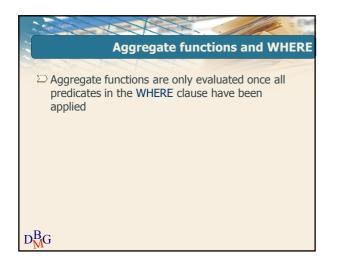


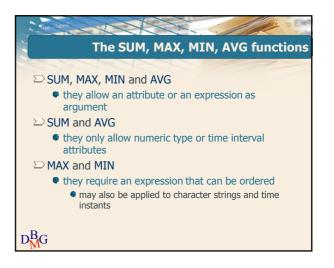


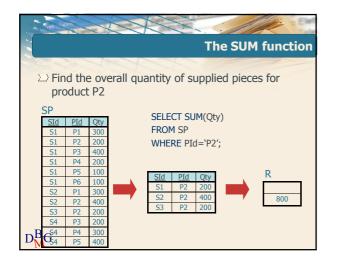


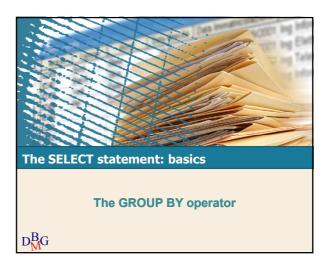


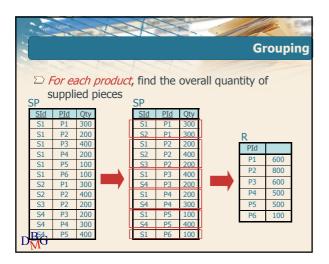






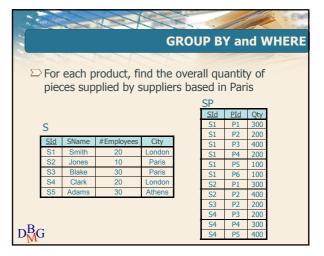






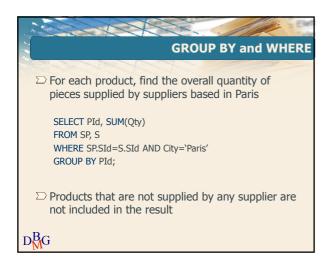


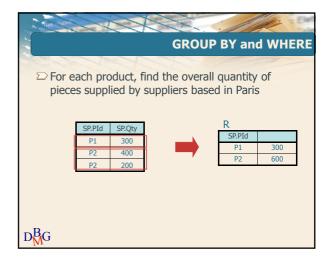


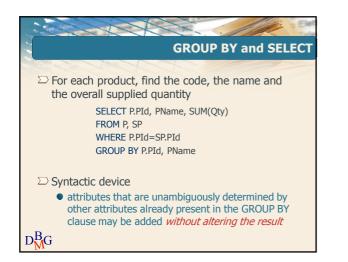


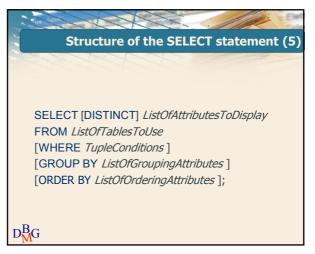


	all faller											
				G	ROUP	BY and	WHERE					
For each product, find the overall quantity of pieces supplied by suppliers based in Paris												
	S.SId	S.SName	S.#Empl	S.City	SP.SId	SP.PId	SP.Qty					
	S1	Smith	20	London	S1	P1	300					
	S1	Smith	20	London	S1	P2	200					
	S1	Smith	20	London	S1	P3	400					
	S1	Smith	20	London	S1	P4	200					
	S1	Smith	20	London	S1	P5	100					
	S1	Smith	20	London	S1	P6	100					
ſ	S2	Jones	10	Paris	S2	P1	300					
	S2	Jones	10	Paris	S2	P2	400					
	S3	Blake	30	Paris	S3	P2	200					
	S4	Clark	20	London	S4	P3	200					
D	S4	Clark	20	London	S4	P4	300					
DB	y S4	Clark	20	London	S4	P5	400					

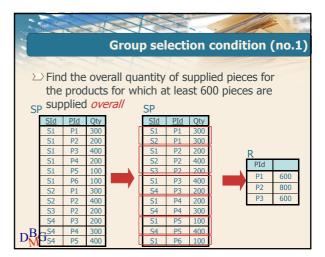


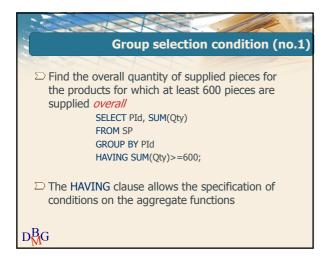












			Gro	up se	lection		onc	litio	n (r	10.2)	
\square Find the codes of the red products supplied by											
more than one supplier SP											
	Ρ						SId	PId	Qty		
	PId	PName	Color	Size	Store	-	S1	P1	300		
	P1	Jumper	Red	40	London		S1 S1	P2 P3	200		
	P2	Jeans	Green	48	Paris	-	S1 S1	P3 P4	200		
	P3	Blouse	Blue	48	Rome		S1	P5	100		
	P4	Blouse	Red	44	London		S1	P6	100		
	P5	Skirt	Blue	40	Paris		S2	P1	300		
	P6	Shorts	Red	42	London		S2	P2	400		
							S3	P2	200		
							S4	P3	200		
D	_						S4	P4	300		
DD	G						S4	P5	400		



