



□ Trovare il codice dei prodotti e la taglia espressa con la misura americana

P

<u>CodP</u>	NomeP	Colore	Taglia	Magazzino
P1	Maglia	Rosso	40	Torino
P2	Jeans	Verde	48	Milano
P3	Camicia	Blu	48	Roma
P4	Camicia	Blu	44	Torino
P5	Gonna	Blu	40	Milano
P6	Bermuda	Rosso	42	Torino



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Selezione con espressione (1/3)

☐ Trovare il codice dei prodotti e la taglia espressa con la misura americana

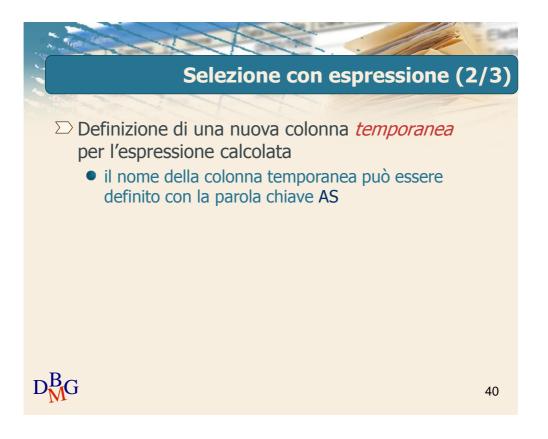
SELECT CodP, Taglia-14 FROM P;

P

<u>CodP</u>	NomeP	Colore	Taglia	Magazzino
P1	Maglia	Rosso	40	Torino
P2	Jeans	Verde	48	Milano
P3	Camicia	Blu	48	Roma
P4	Camicia	Blu	44	Torino
P5	Gonna	Blu	40	Milano
P6	Bermuda	Rosso	42	Torino











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Selezione con espressione (3/3)

☐ Trovare il codice dei prodotti e la taglia espressa con la misura americana

SELECT CodP, Taglia-14 AS TagliaUSA FROM P;

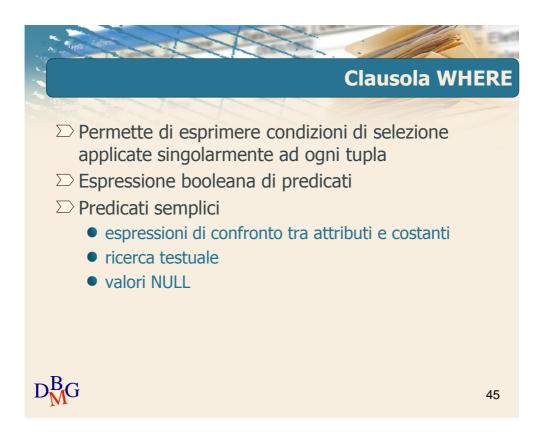
R

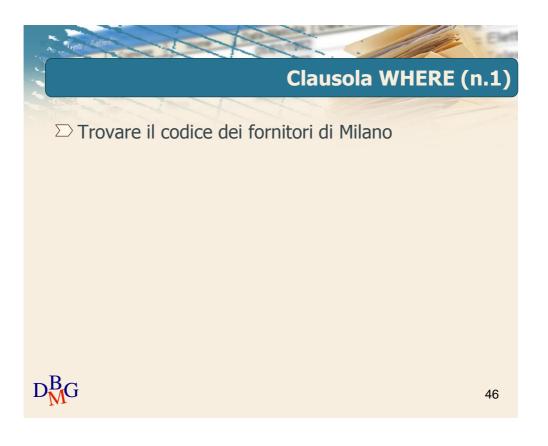
CodP	TagliaUSA	
P1	26	
P2	34	
P3	34	
P4	30	
P5	26	
P6	38	







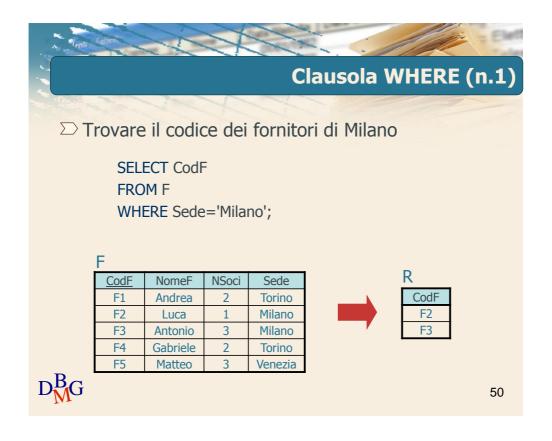


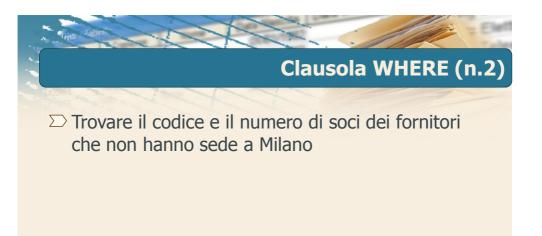














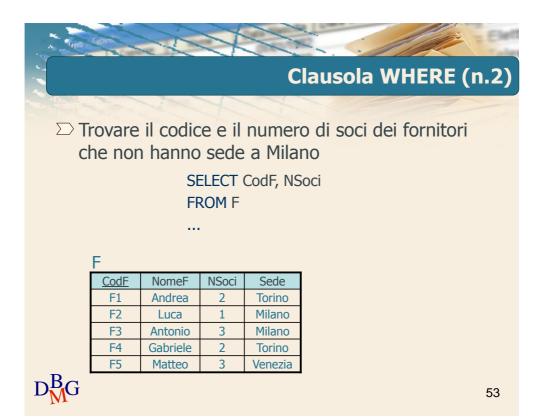
51

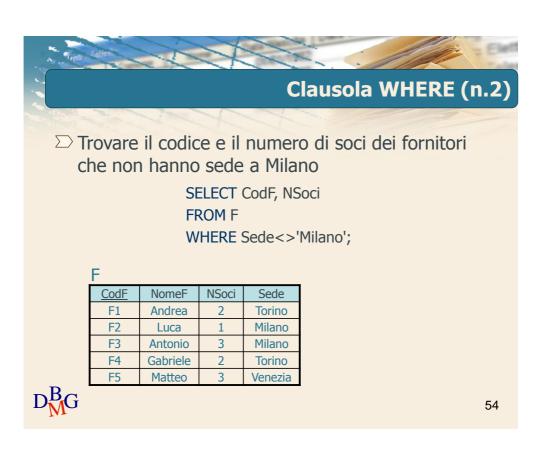


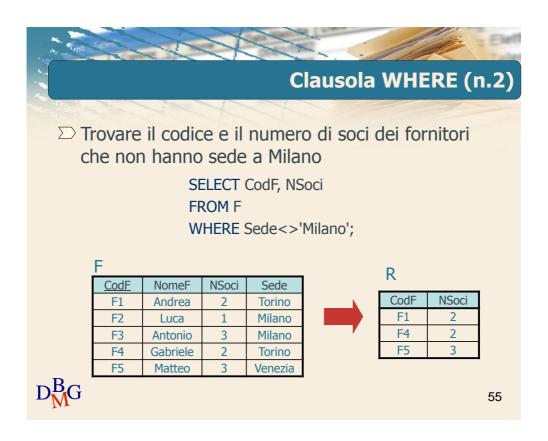
☐ Trovare il codice e il numero di soci dei fornitori che non hanno sede a Milano

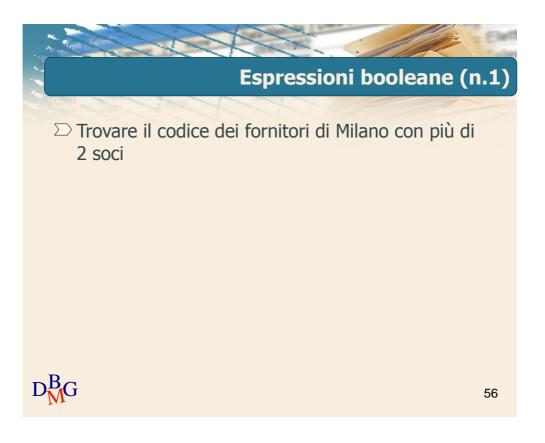
<u> </u>			
<u>CodF</u>	NomeF	NSoci	Sede
F1	Andrea	2	Torino
F2	Luca	1	Milano
F3	Antonio	3	Milano
F4	Gabriele	2	Torino
F5	Matteo	3	Venezia













☐ Trovare il codice dei fornitori di Milano con più di 2 soci

I					
<u>CodF</u>	NomeF	NSoci	Sede		
F1	Andrea	2	Torino		
F2	Luca	1	Milano		
F3	Antonio	3	Milano		
F4	Gabriele	2	Torino		
F5	Matteo	3	Venezia		



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☐ Trovare il codice dei fornitori di Milano con più di 2 soci

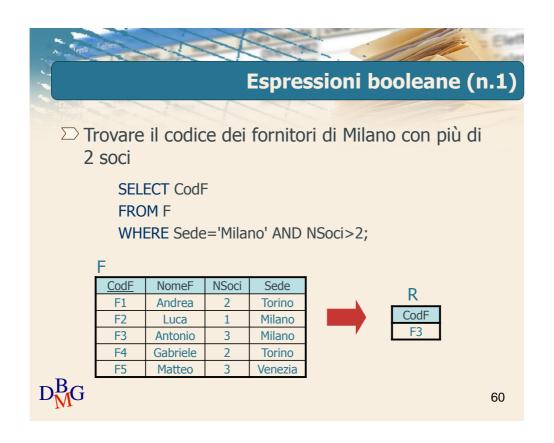
> **SELECT CodF** FROM F

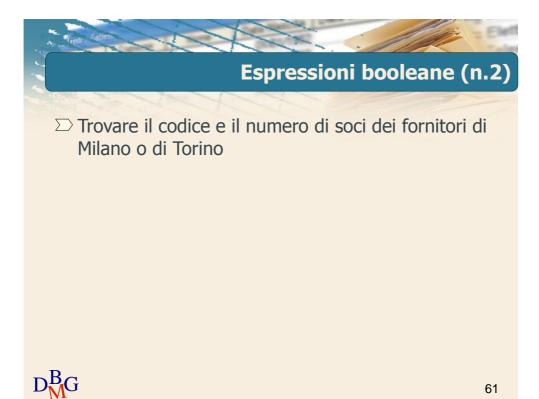
...

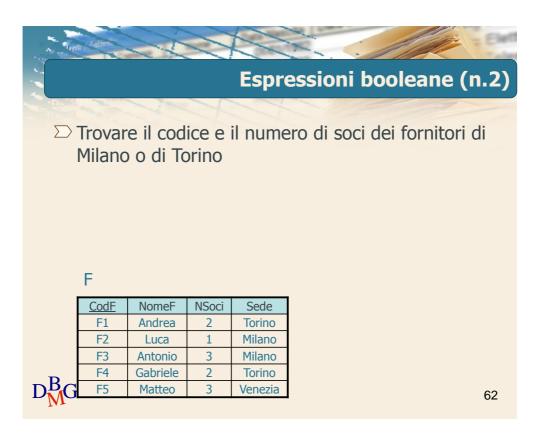
NomeF NSoci CodF Sede F1 Andrea 2 Torino F2 Luca Milano F3 3 Milano Antonio F4 Gabriele 2 Torino Matteo Venezia

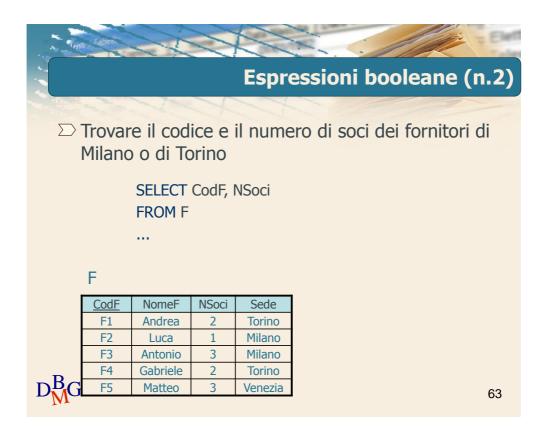


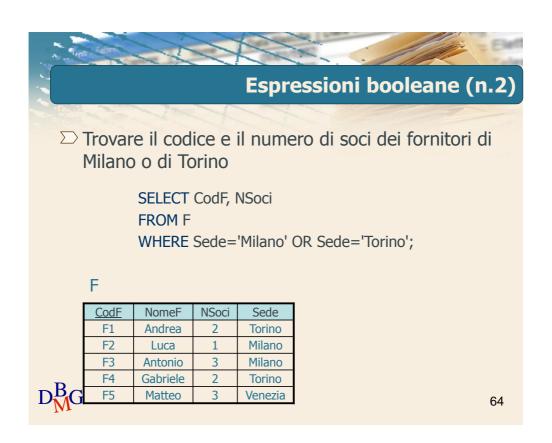


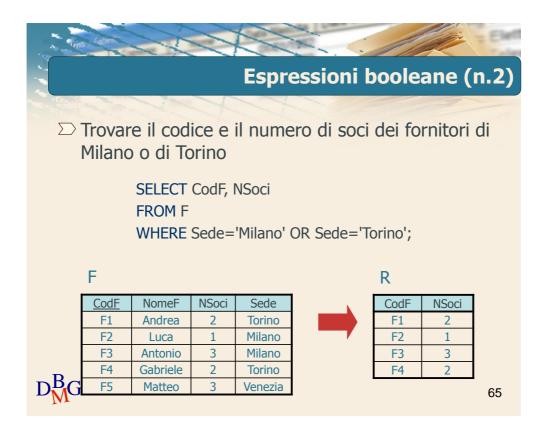


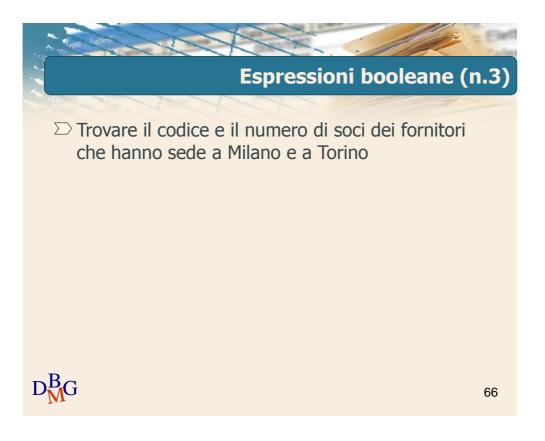














 □ Trovare il codice e il numero di soci dei fornitori che hanno sede a Milano e a Torino

F

	<u>CodF</u>	NomeF	NSoci	Sede
	F1	Andrea	2	Torino
	F2	Luca	1	Milano
	F3	Antonio	3	Milano
	F4	Gabriele	2	Torino
1	F5	Matteo	3	Venezia

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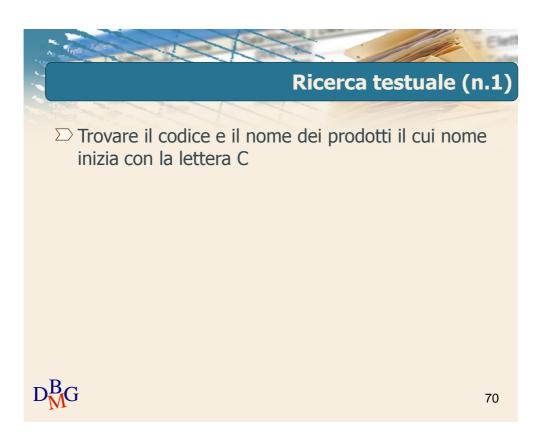


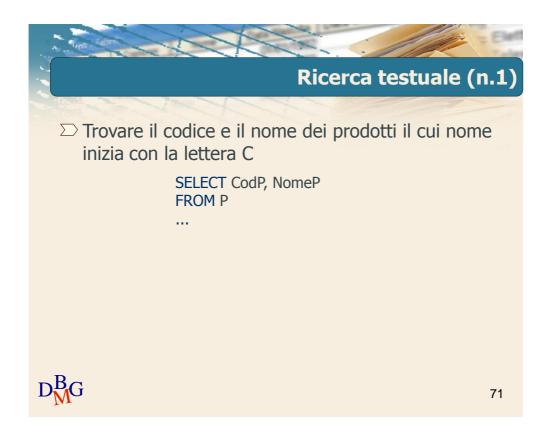
- ☐ Trovare il codice e il numero di soci dei fornitori
 che hanno sede a Milano e a Torino
 - la richiesta non può essere soddisfatta
 - ogni fornitore ha una sola sede

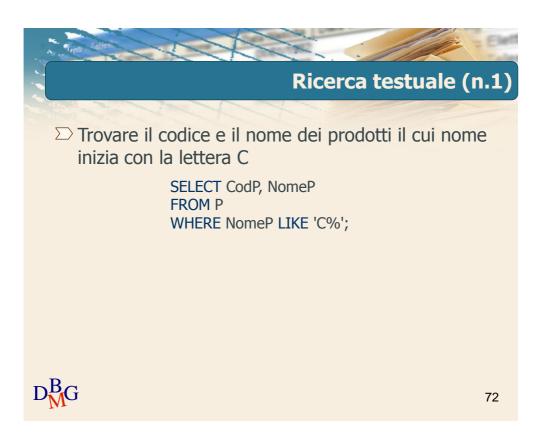
F

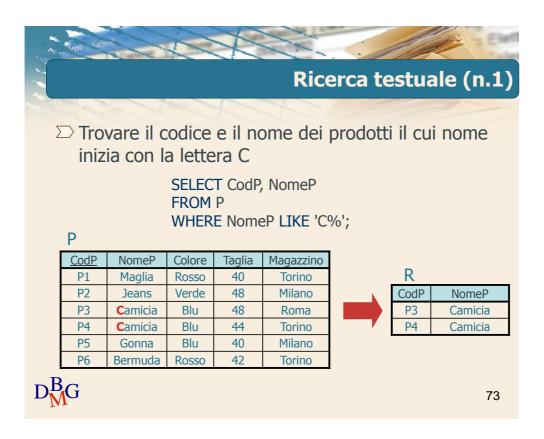
<u>CodF</u>	NomeF	NSoci	Sede
F1	Andrea	2	Torino
F2	Luca	1	Milano
F3	Antonio	3	Milano
F4	Gabriele	2	Torino
F5	Matteo	3	Venezia
	F1 F2 F3	F1 Andrea F2 Luca F3 Antonio F4 Gabriele	F1 Andrea 2 F2 Luca 1 F3 Antonio 3 F4 Gabriele 2

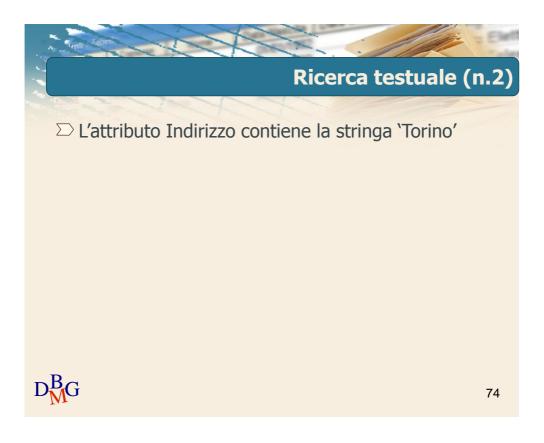


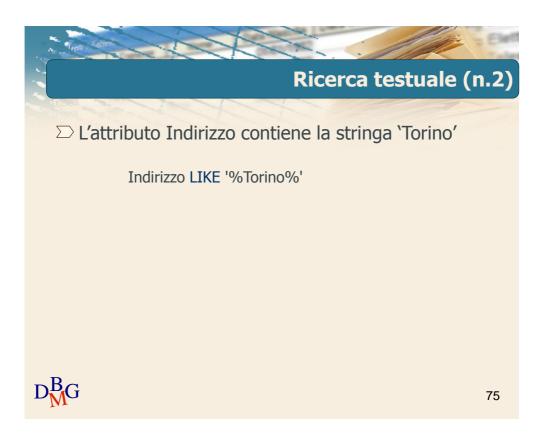


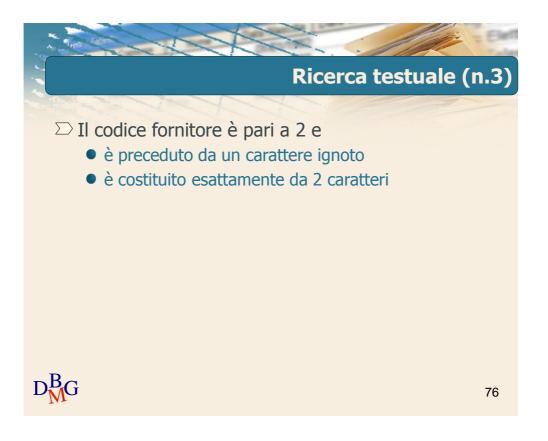


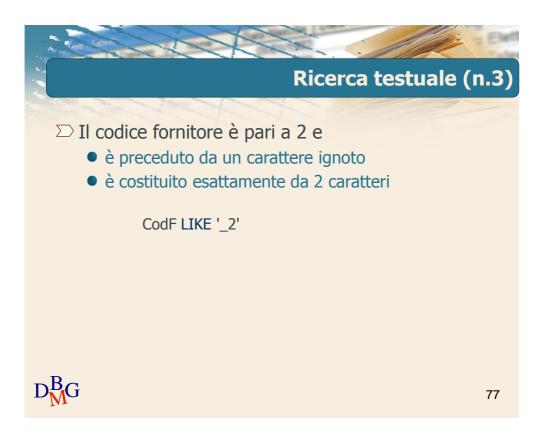


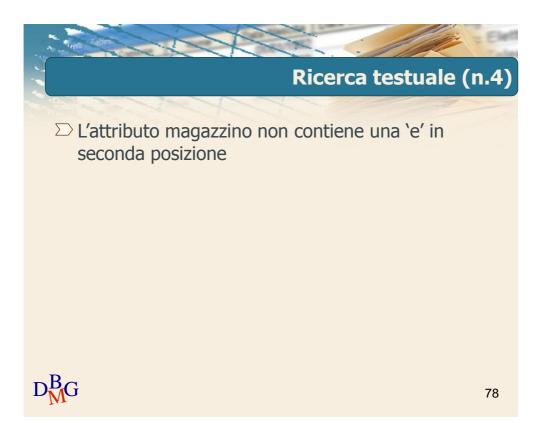




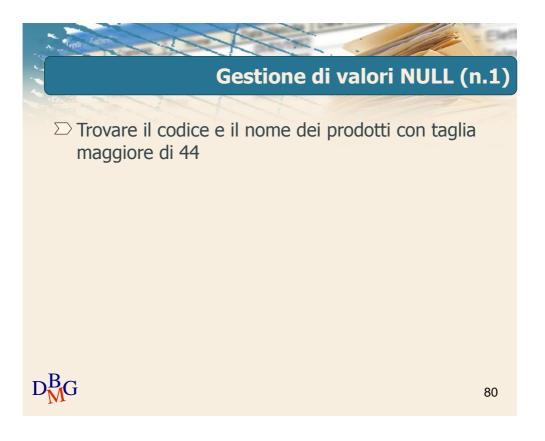




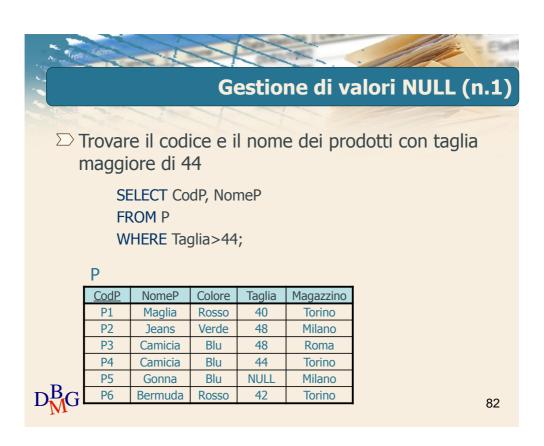


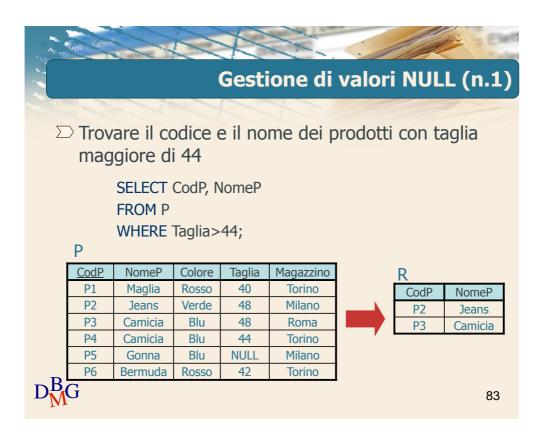




















☐ Trovare il codice e il nome dei prodotti per cui la taglia non è indicata

P

•				
<u>CodP</u>	NomeP	Colore	Taglia	Magazzino
P1	Maglia	Rosso	40	Torino
P2	Jeans	Verde	48	Milano
P3	Camicia	Blu	48	Roma
P4	Camicia	Blu	44	Torino
P5	Gonna	Blu	NULL	Milano
P6	Bermuda	Rosso	42	Torino

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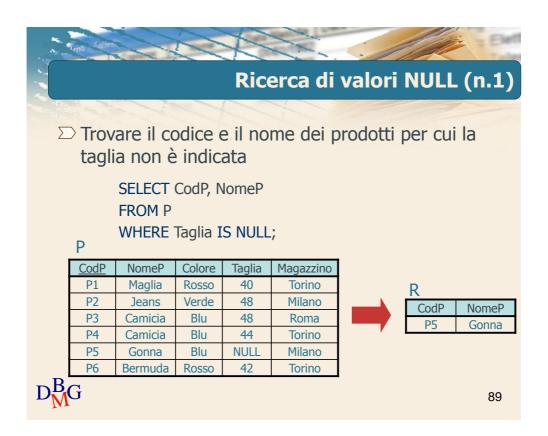


□ Trovare il codice e il nome dei prodotti per cui la taglia non è indicata

SELECT CodP, NomeP FROM P WHERE Taglia IS NULL;

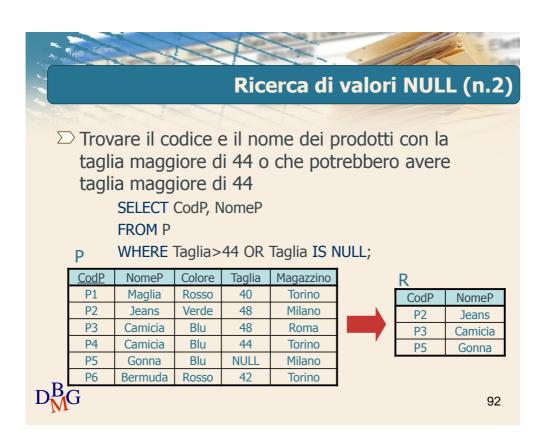
P

	<u>CodP</u> NomeP		Colore	Taglia	Magazzino
	P1	Maglia	Rosso	40	Torino
P2 P3 P4		Jeans	Verde	48	Milano
		Camicia	Blu	48	Roma
		Camicia	Blu	44	Torino
	P5	Gonna	Blu	NULL	Milano
$D_{M}^{B}G$	P6	Bermuda	Rosso	42	Torino
MO					





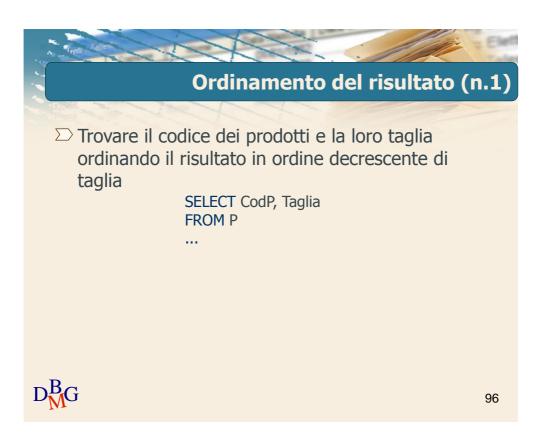




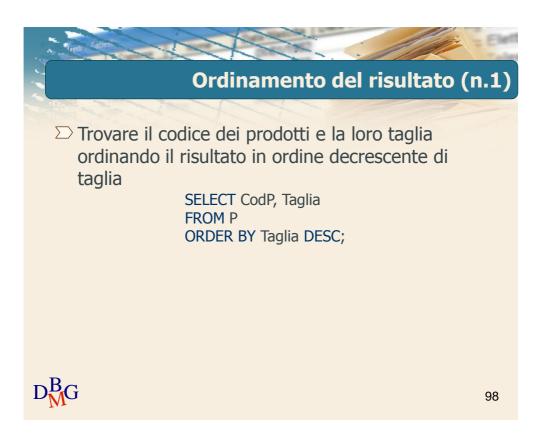


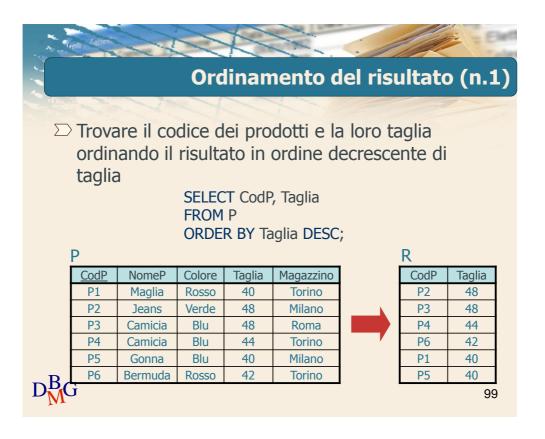
















 $D_{M}^{B}G$

101

Ordinamento del risultato (n.2)

☐ Trovare tutte le informazioni sui prodotti ordinando il risultato in ordine crescente di nome e decrescente di taglia

SELECT CodP, NomeP, Colore, Taglia, Magazzino FROM P

•••









☐ Trovare tutte le informazioni sui prodotti ordinando il risultato in ordine crescente di nome e decrescente di taglia

> SELECT CodP, NomeP, Colore, Taglia, Magazzino FROM P

ORDER BY NomeP, Taglia DESC;

Р				
<u>CodP</u>	NomeP	Colore	Taglia	Magazzino
P1	Maglia	Rosso	40	Torino
P2	Jeans	Verde	48	Milano
P3	Camicia	Blu	48	Roma
P4	Camicia	Blu	44	Torino
P5	Gonna	Blu	40	Milano
P6	Bermuda	Rosso	42	Torino



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Ordinamento del risultato (n.2)

☐ Trovare tutte le informazioni sui prodotti ordinando il risultato in ordine crescente di nome e decrescente di taglia

> SELECT CodP, NomeP, Colore, Taglia, Magazzino FROM P ORDER BY NomeP, Taglia DESC;

R				
CodP	NomeP	Colore	Taglia	Magazzino
P6	Bermuda	Rosso	42	Torino
P3	Camicia	Blu	48	Roma
P4	Camicia	Blu	44	Torino
P5	Gonna	Blu	40	Milano
P2	Jeans	Verde	48	Milano
P1	Maglia	Rosso	40	Torino





☐ Trovare tutte le informazioni sui prodotti ordinando il risultato in ordine crescente di nome e decrescente di taglia

SELECT *
FROM P
ORDER BY NomeP, Taglia DESC;

R				
CodP	NomeP	Colore	Taglia	Magazzino
P6	Bermuda	Rosso	42	Torino
P3	Camicia	Blu	48	Roma
P4	Camicia	Blu	44	Torino
P5	Gonna	Blu	40	Milano
P2	Jeans	Verde	48	Milano
P1	Maglia	Rosso	40	Torino

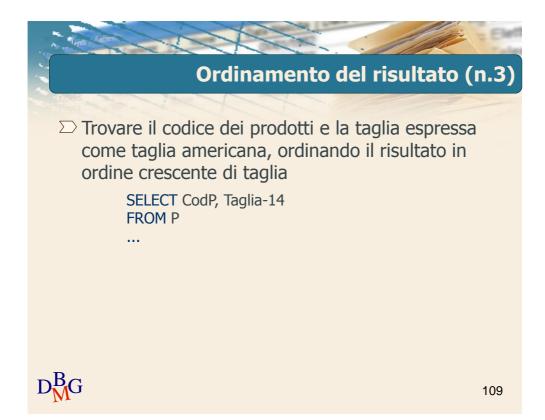


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Ordinamento del risultato (n.3)

☐ Trovare il codice dei prodotti e la taglia espressa come taglia americana, ordinando il risultato in ordine crescente di taglia





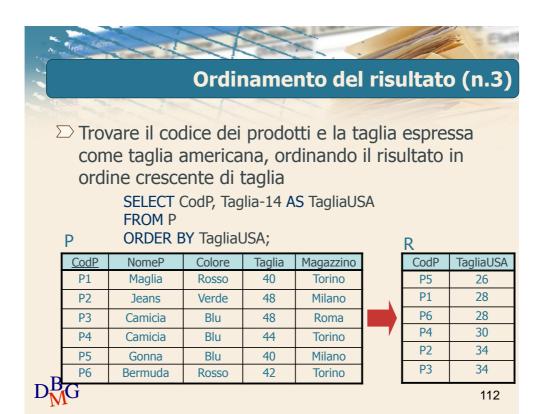




 □ Trovare il codice dei prodotti e la taglia espressa come taglia americana, ordinando il risultato in ordine crescente di taglia

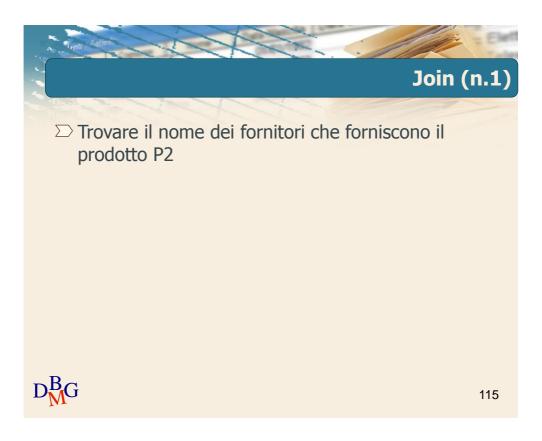
SELECT CodP, Taglia-14 AS TagliaUSA FROM P
ORDER BY TagliaUSA;

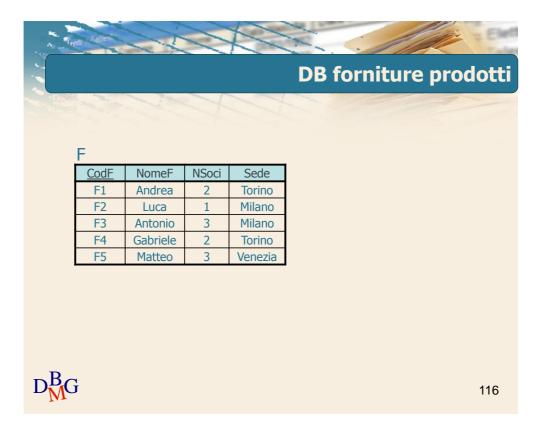






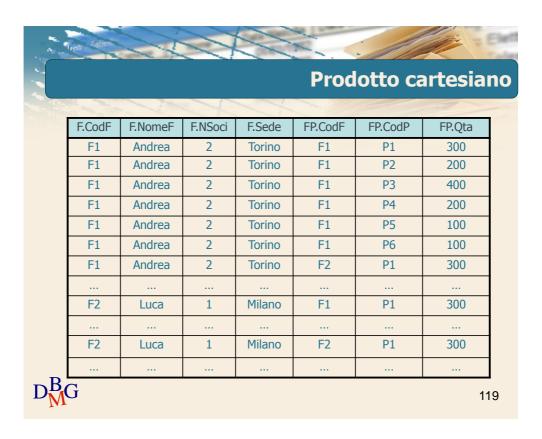






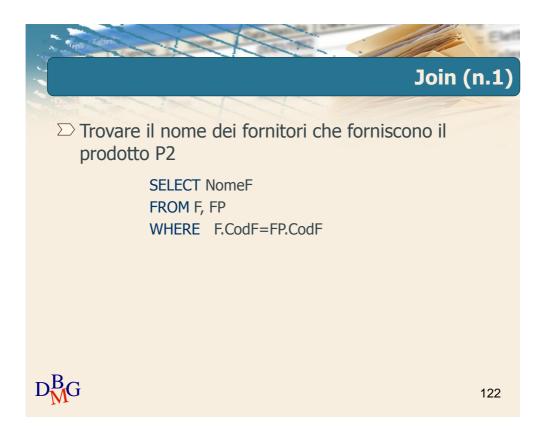


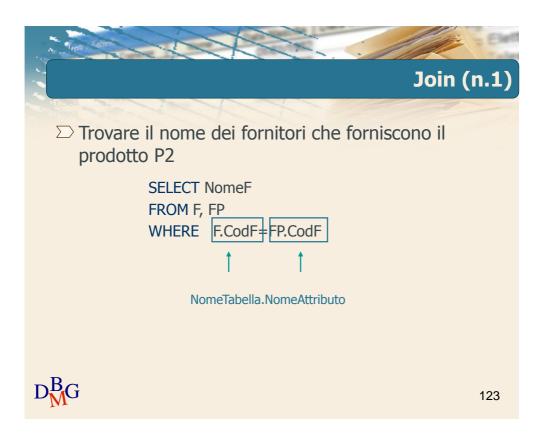




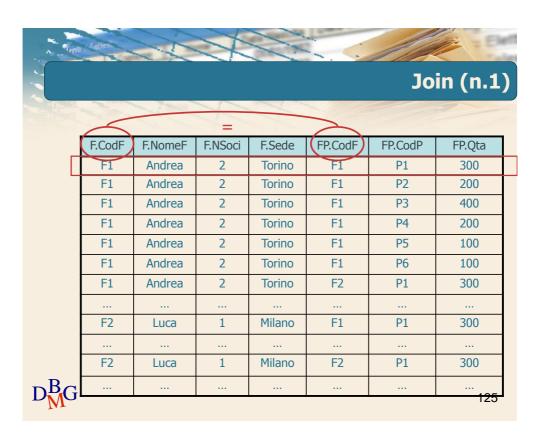




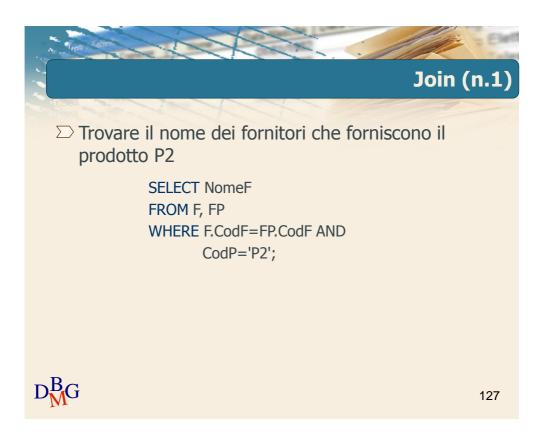




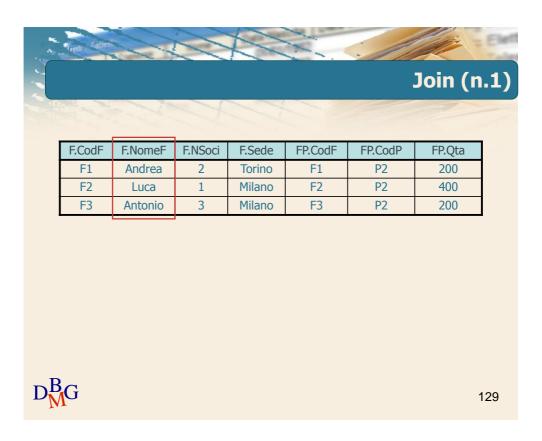


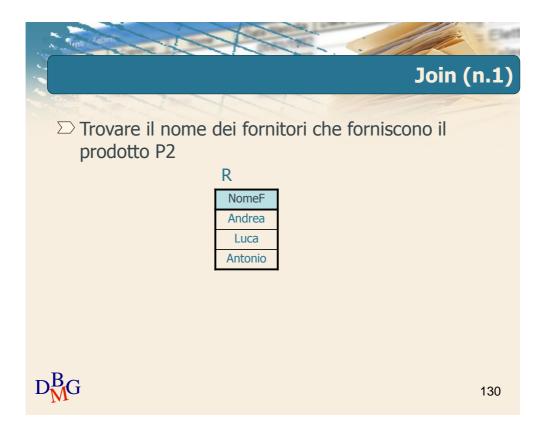


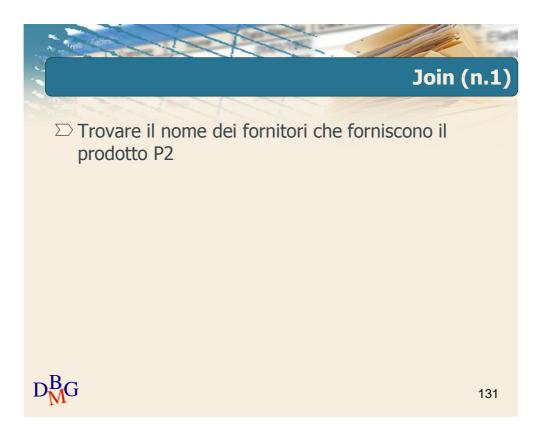


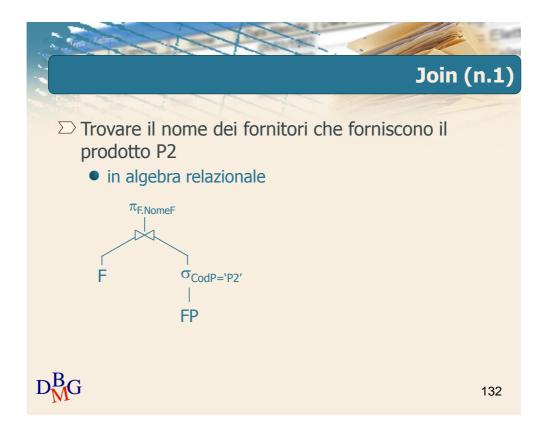


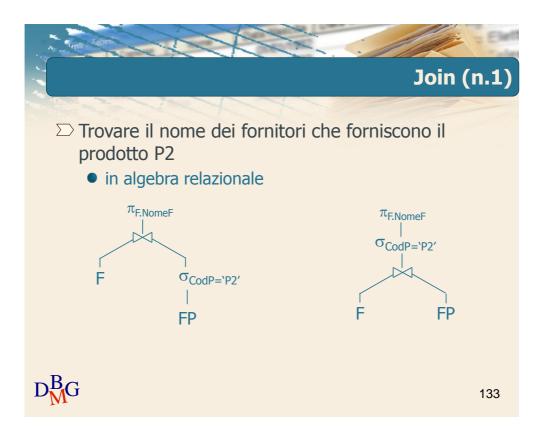


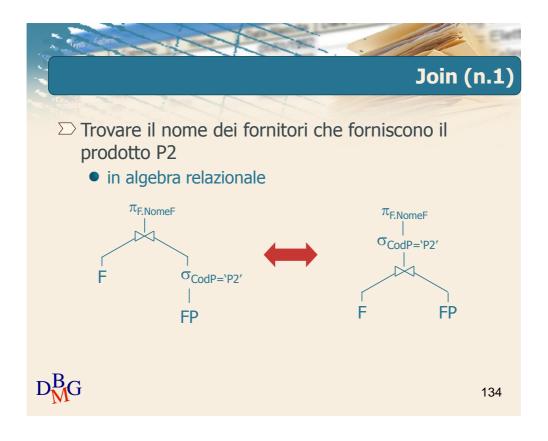


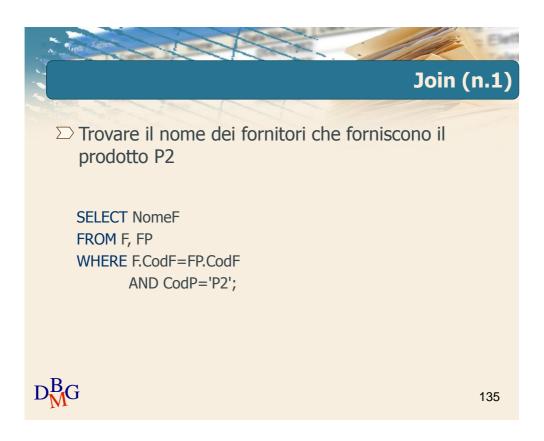














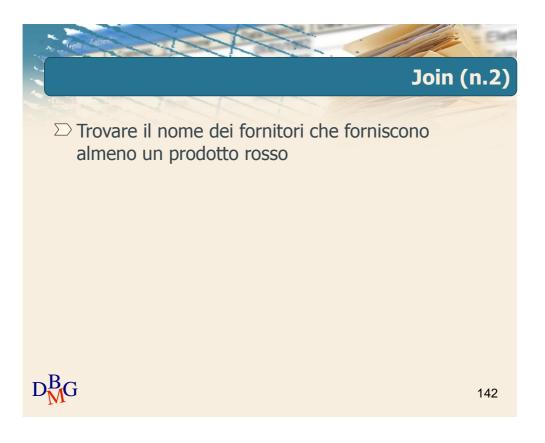


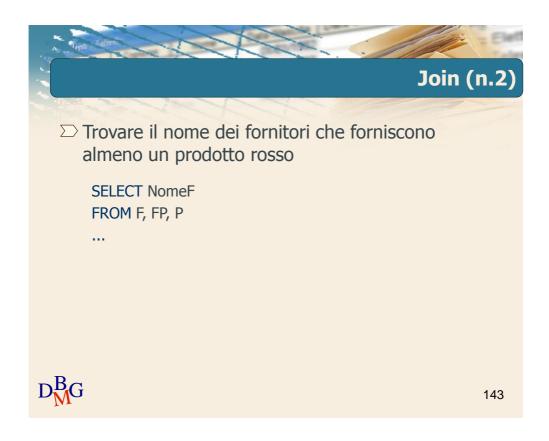


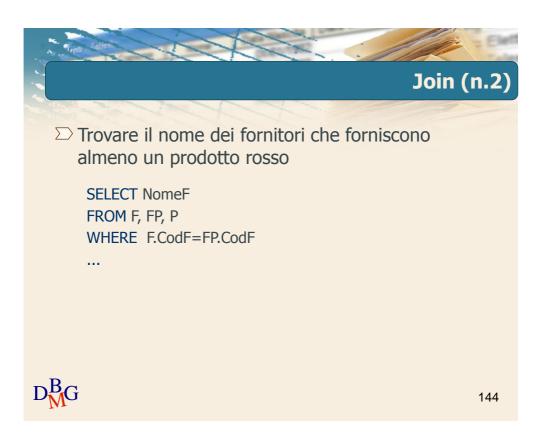


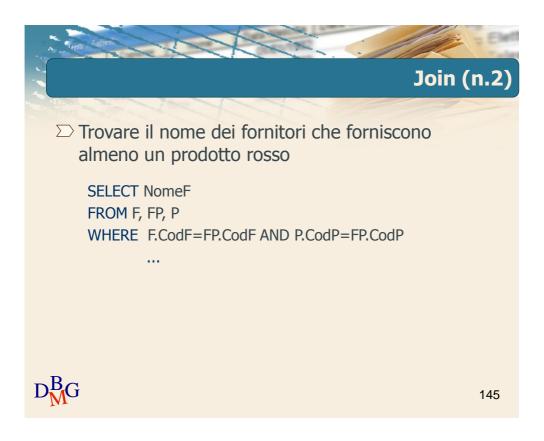






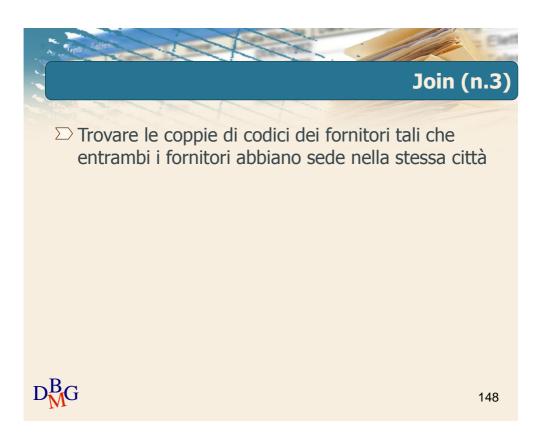


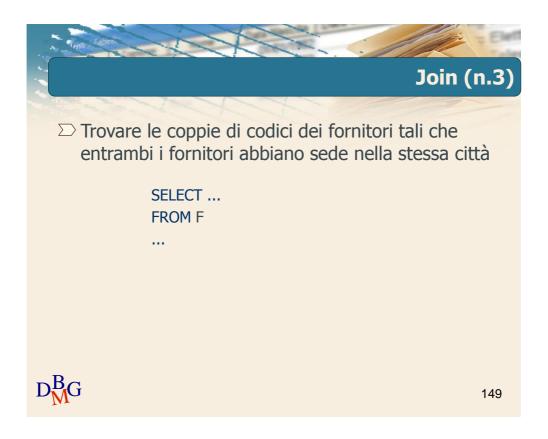


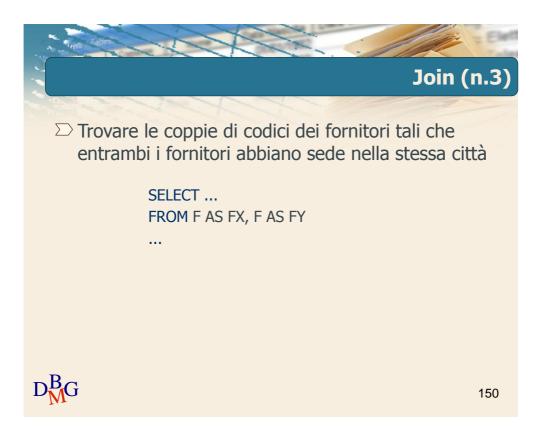


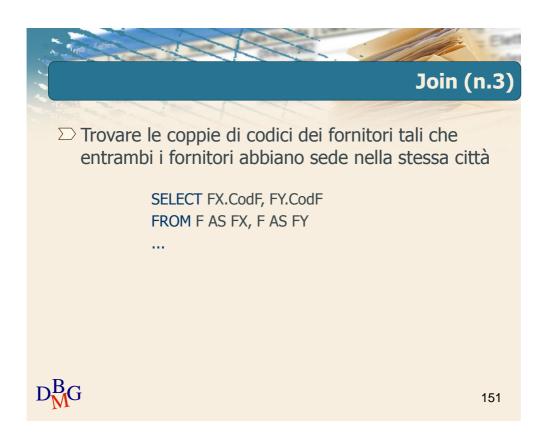


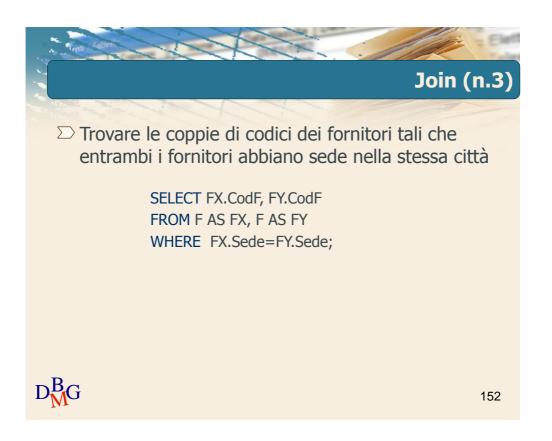














☐ Trovare le coppie di codici dei fornitori tali che entrambi i fornitori abbiano sede nella stessa città

> SELECT FX.CodF, FY.CodF FROM F AS FX, F AS FY WHERE FX.Sede=FY.Sede;

F AS FX

<u>CodF</u>	NomeF	NSoci	Sede
F1	Andrea	2	Torino
F2	Luca	1	Milano
F3	Antonio	3	Milano
F4	Gabriele	2	Torino
F5	Matteo	3	Venezia

F AS FY

7101			
<u>CodF</u>	NomeF	NSoci	Sede
F1	Andrea	2	Torino
F2	Luca	1	Milano
F3	Antonio	3	Milano
F4	Gabriele	2	Torino
F5	Matteo	3	Venezia

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☐ Trovare le coppie di codici dei fornitori tali che entrambi i fornitori abbiano sede nella stessa città

> SELECT FX.CodF, FY.CodF FROM F AS FX, F AS FY WHERE FX.Sede=FY.Sede;

R

FX.CodF	FY.CodF
F1	F1
F1	F4
F2	F2
F2	F3
F3	F2
F3	F3
F4	F1
F4	F4
F5	F5

154













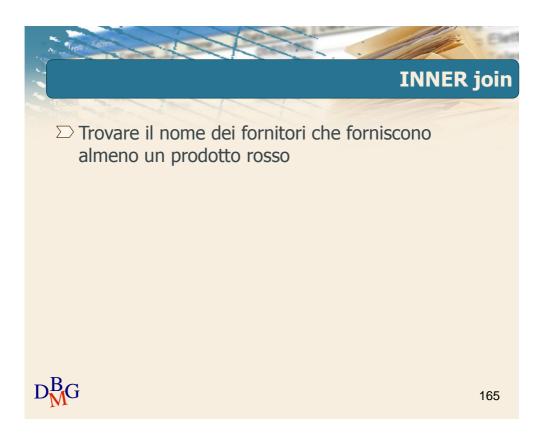


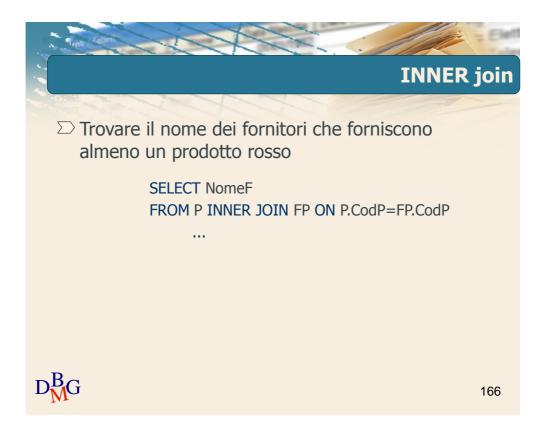






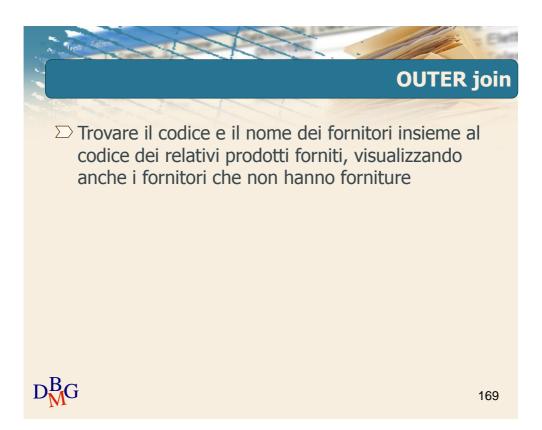


















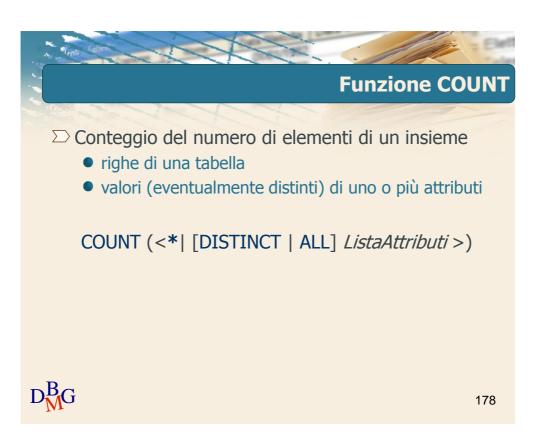


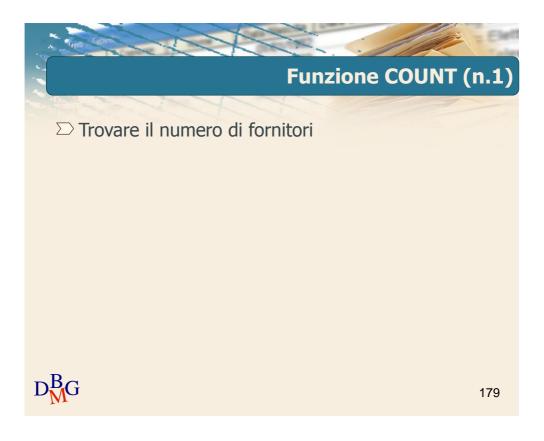


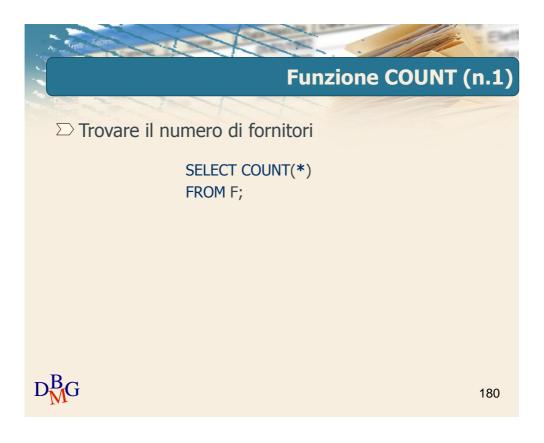


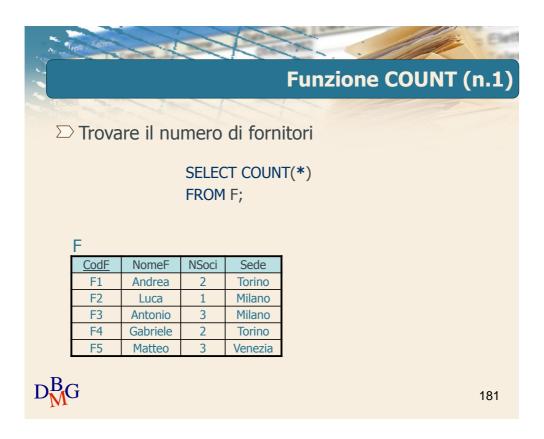


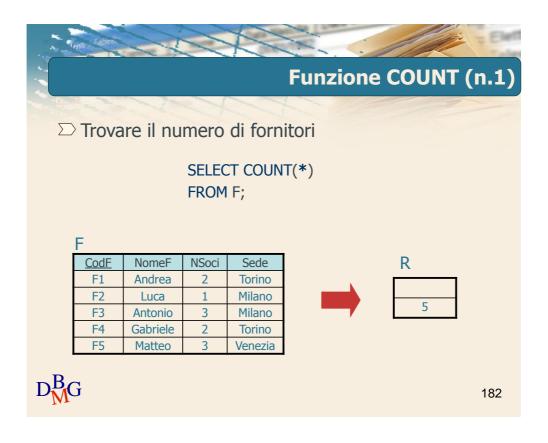


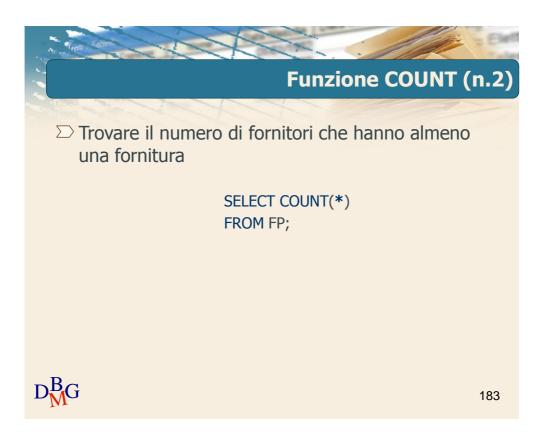




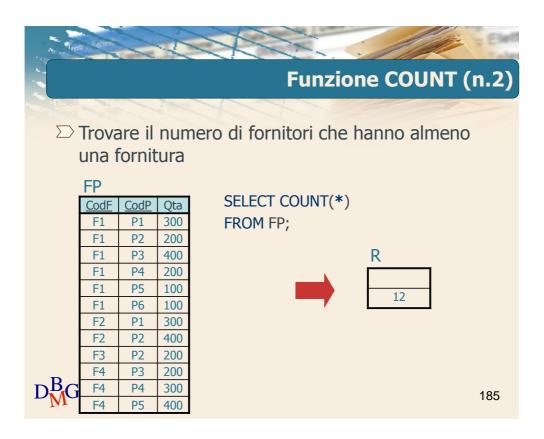


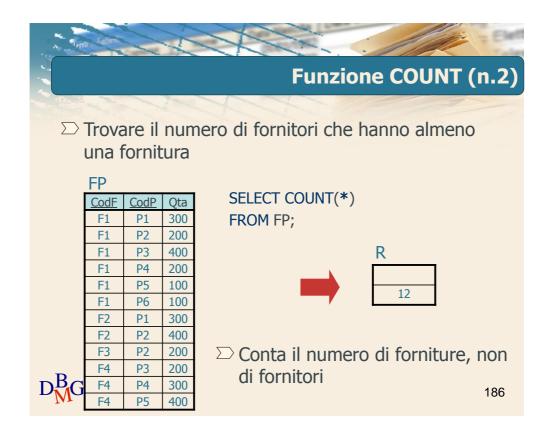




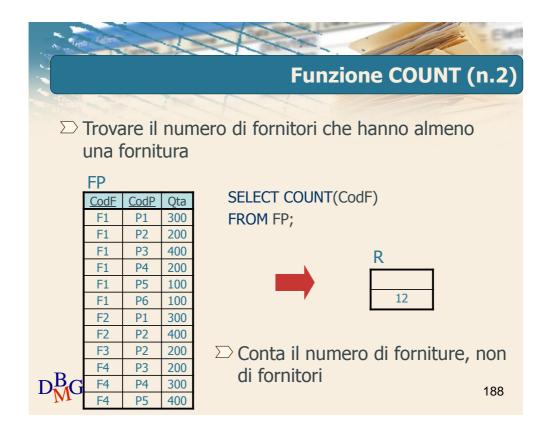


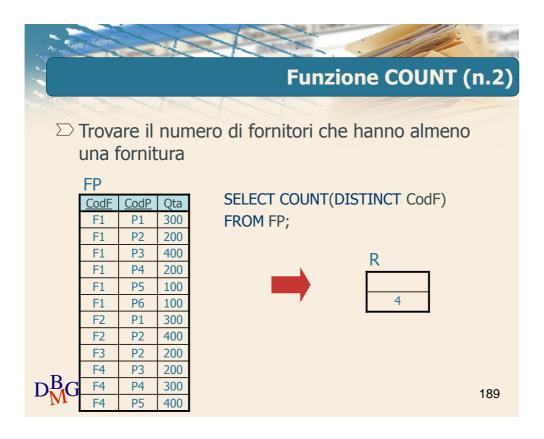


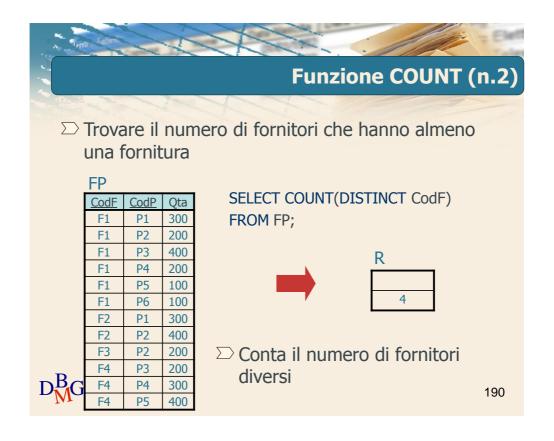


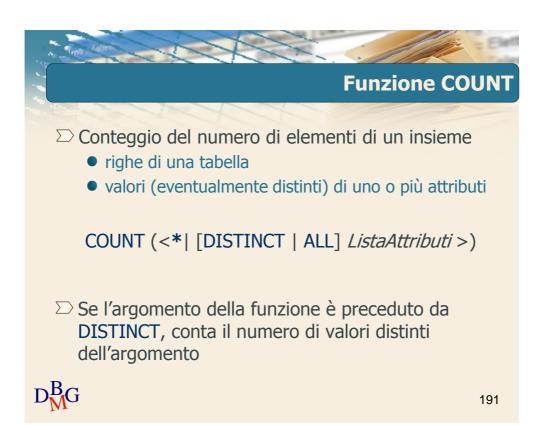


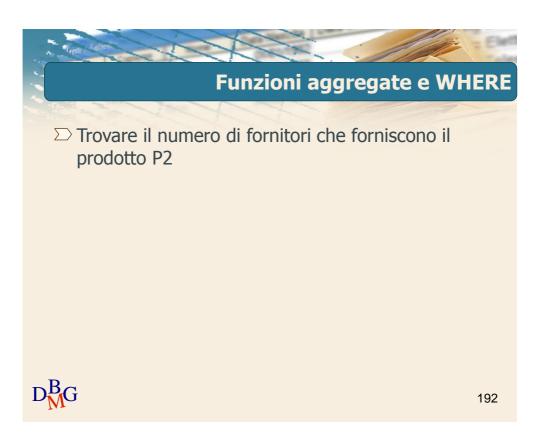


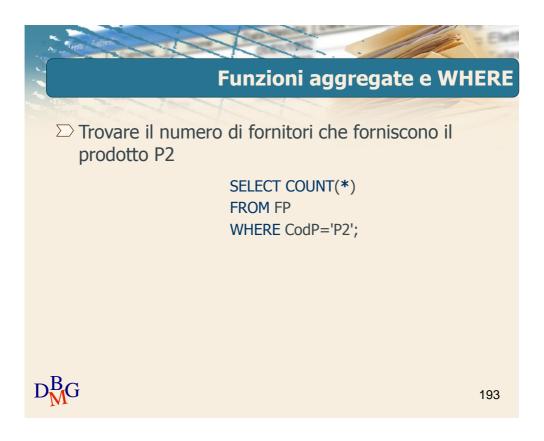


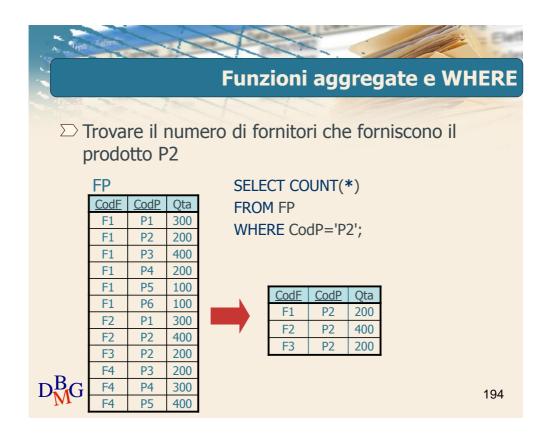


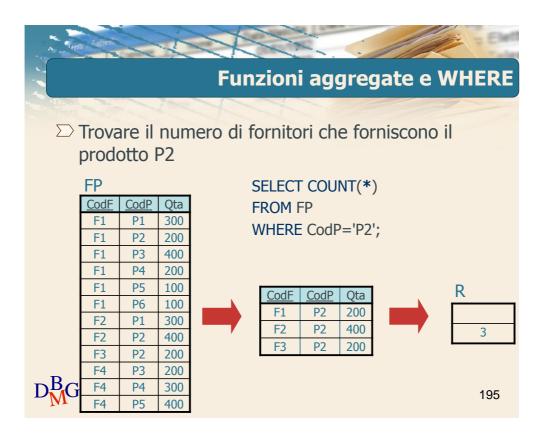






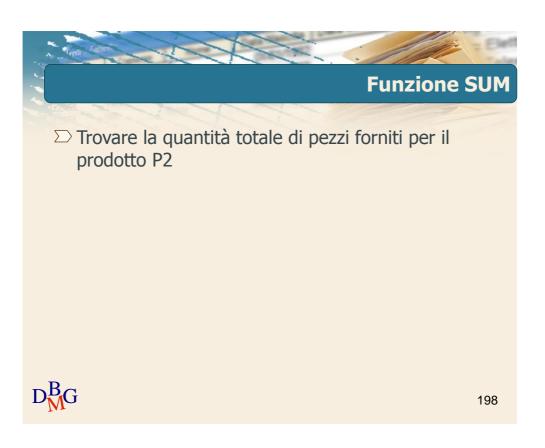


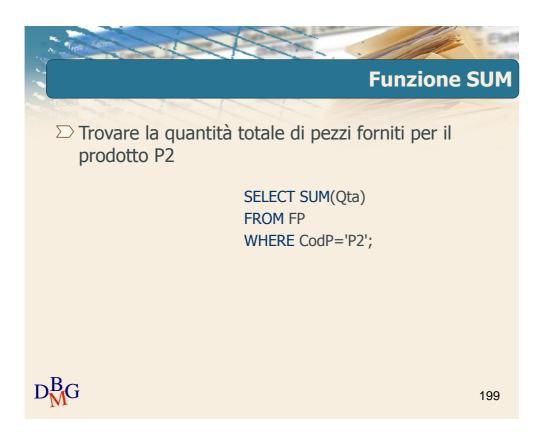


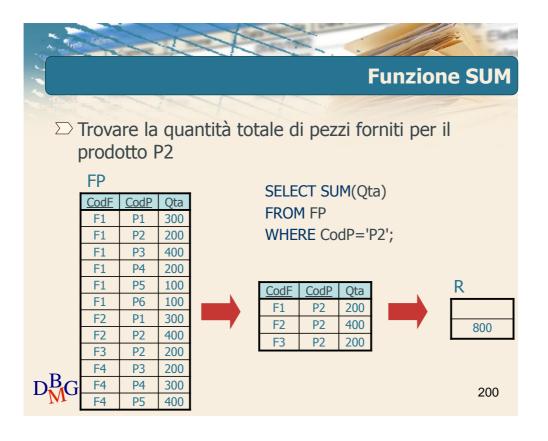




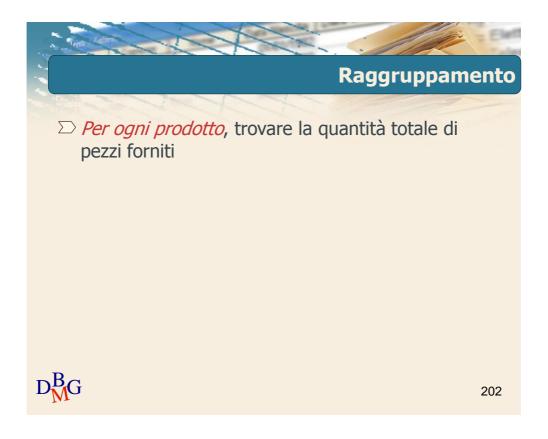




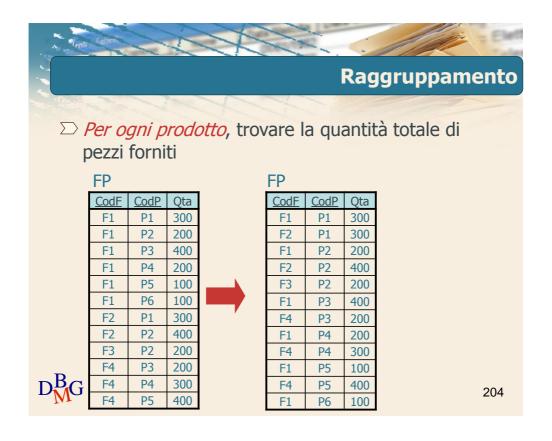


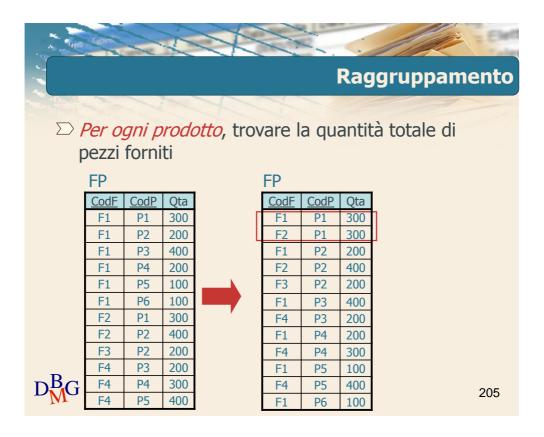


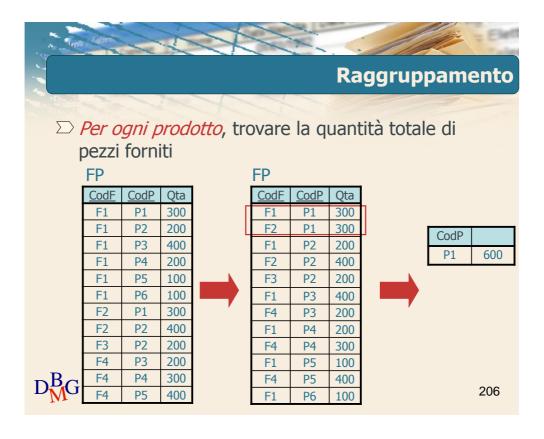


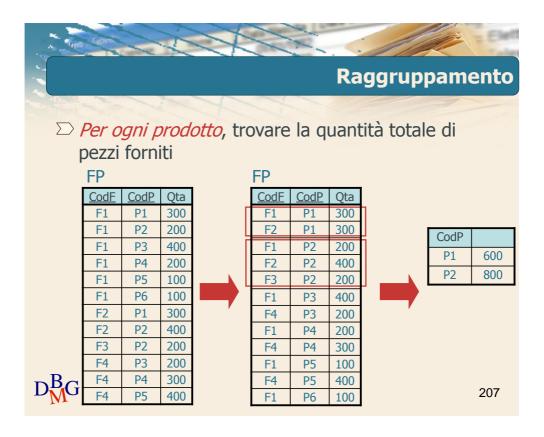


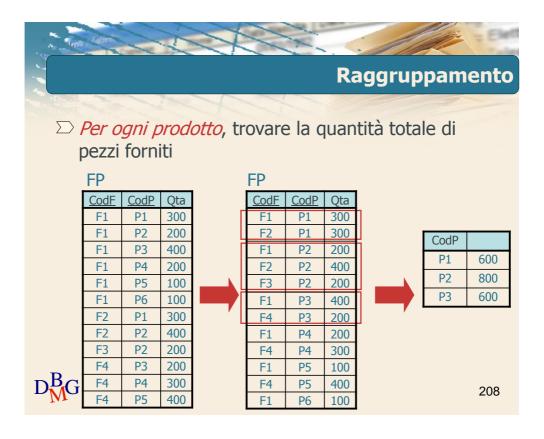


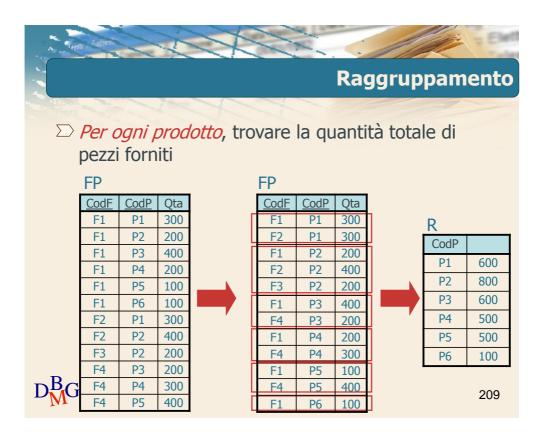


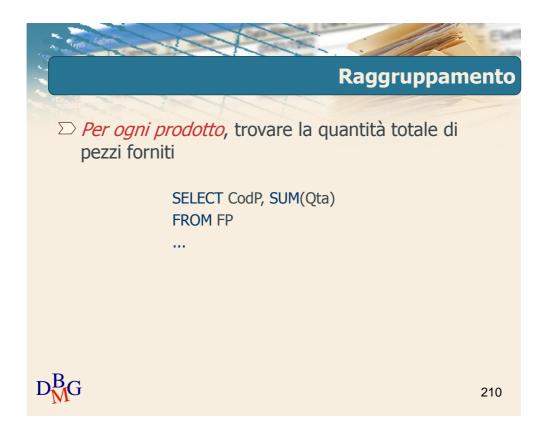


















 □ Per ogni prodotto, trovare la quantità totale di pezzi forniti da fornitori con sede a Milano

<u>CodF</u>	NomeF	NSoci	Sede	
F1	Andrea	2	Torino	
F2	Luca	1	Milano	
F3	Antonio	3	Milano	
F4	Gabriele	2	Torino	
F5	Matteo	3	Venezia	

<u>CodF</u>	<u>CodP</u>	Qta
F1	P1	300
F1	P2	200
F1	P3	400
F1	P4	200
F1	P5	100
F1	P6	100
F2	P1	300
F2	P2	400
F3	P2	200
F4	P3	200
F4	P4	300
F4	P5	400

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 $D_{M}^{B}G$



 □ Per ogni prodotto, trovare la quantità totale di pezzi forniti da fornitori con sede a Milano

> SELECT ... FROM FP, F WHERE FP.CodF=F.CodF AND Sede='Milano'

 $D_{M}^{B}G$

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○ Per ogni prodotto, trovare la quantità totale di pezzi forniti da fornitori con sede a Milano

F.CodF	F.NomeF	F.NSoci	F.Sede	FP.CodF	FP.CodP	FP.Qta
F1	Andrea	2	Torino	F1	P1	300
F1	Andrea	2	Torino	F1	P2	200
F1	Andrea	2	Torino	F1	P3	400
F1	Andrea	2	Torino	F1	P4	200
F1	Andrea	2	Torino	F1	P5	100
F1	Andrea	2	Torino	F1	P6	100
F2	Luca	1	Milano	F2	P1	300
F2	Luca	1	Milano	F2	P2	400
F3	Antonio	3	Milano	F3	P2	200
F4	Gabriele	2	Torino	F4	P3	200
F4	Gabriele	2	Torino	F4	P4	300
F4	Gabriele	2	Torino	F4	P5	400



GROUP BY e WHERE

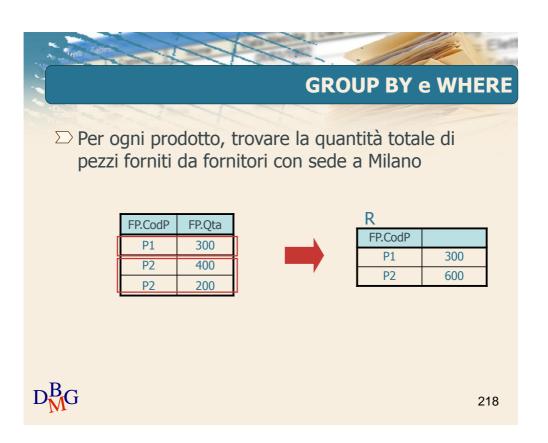
 □ Per ogni prodotto, trovare la quantità totale di pezzi forniti da fornitori con sede a Milano

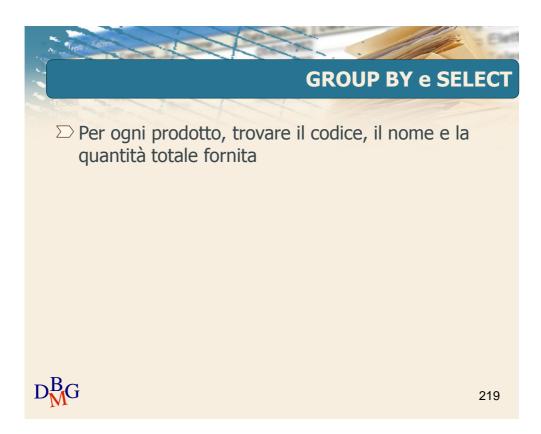
SELECT CodP, SUM(Qta)
FROM FP, F
WHERE FP.CodF=F.CodF AND Sede='Milano'
GROUP BY CodP;

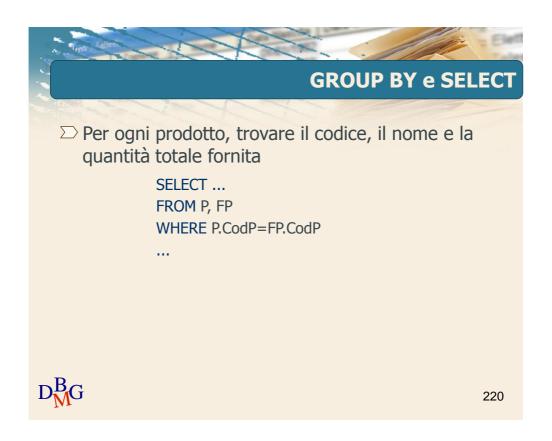


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□ Per ogni prodotto, trovare il codice, il nome e la quantità totale fornita

SELECT P.CodP, NomeP, SUM(Qta) FROM P, FP WHERE P.CodP=FP.CodP GROUP BY P.CodP, NomeP

□ Artificio sintattico

 gli attributi univocamente determinati da attributi già presenti nella clausola GROUP BY possono essere aggiunti senza alterare il risultato



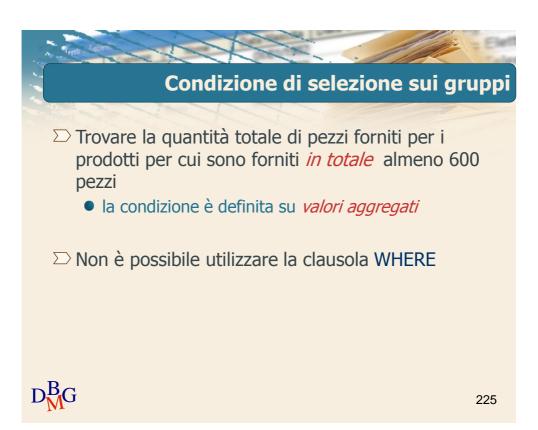
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Struttura dell'istruzione SELECT (5)

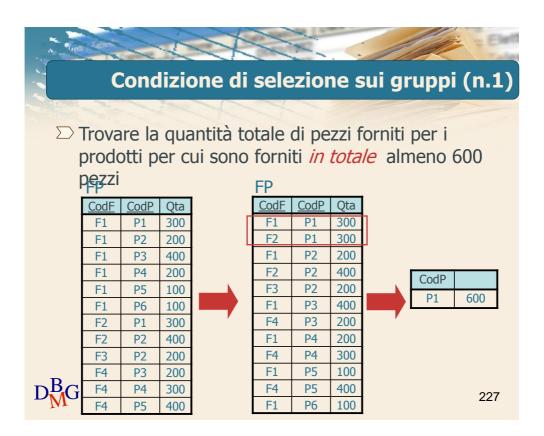
SELECT [DISTINCT] *ElencoAttributiDaVisualizzare*FROM *ElencoTabelleDaUtilizzare*[WHERE *CondizioniDiTupla*]
[GROUP BY *ElencoAttributiDiRaggruppamento*]
[ORDER BY *ElencoAttributiDiOrdinamento*];

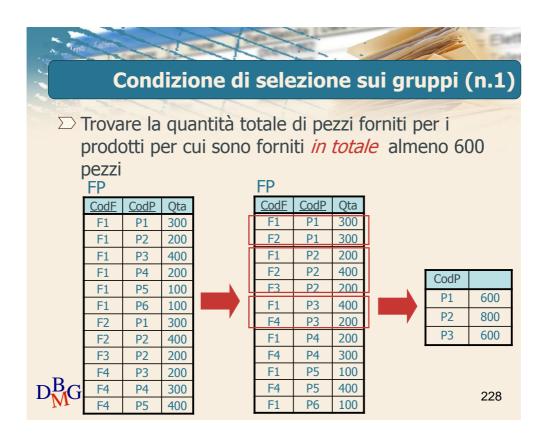


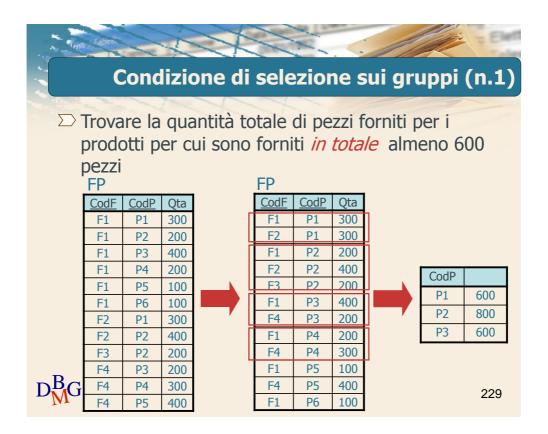
224

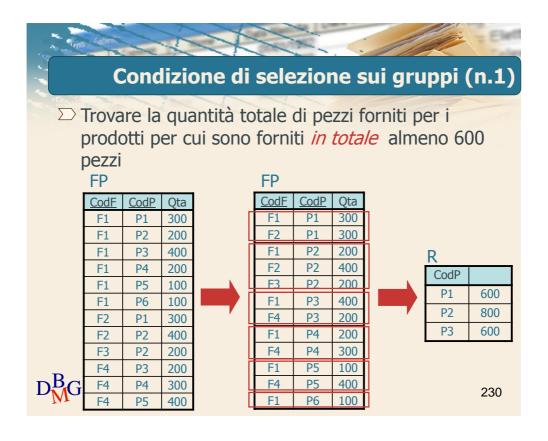


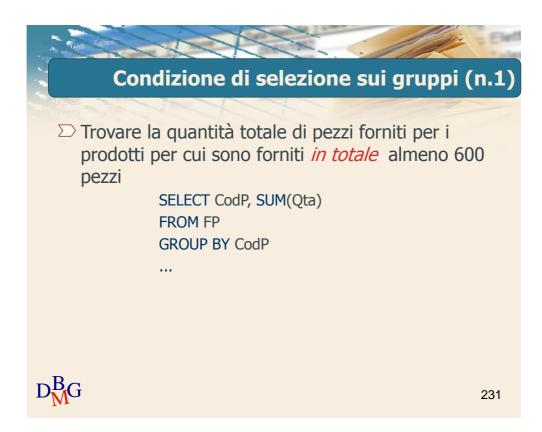






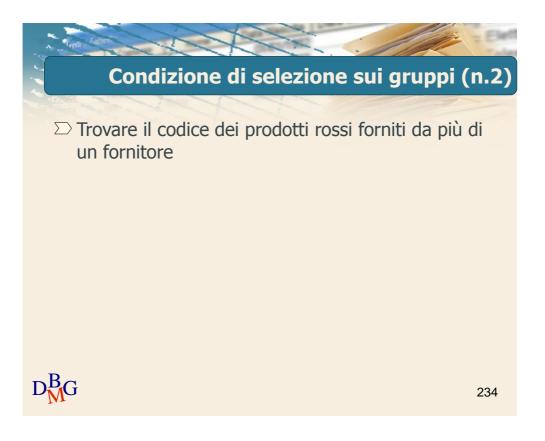














 □ Trovare il codice dei prodotti rossi forniti da più di un fornitore

P

<u> </u>				
<u>CodP</u>	NomeP	Colore	Taglia	Magazzino
P1	Maglia	Rosso	40	Torino
P2	Jeans	Verde	48	Milano
P3	Camicia	Blu	48	Roma
P4	Camicia	Blu	44	Torino
P5	Gonna	Blu	40	Milano
P6	Bermuda	Rosso	42	Torino

FP							
<u>CodF</u>	<u>CodP</u>	Qta					
F1	P1	300					
F1	P2	200					
F1	P3	400					
F1	P4	200					
F1	P5	100					
F1	P6	100					
F2	P1	300					
F2	P2	400					
F3	P2	200					
F4	P3	200					
F4	P4	300					

400 235



Condizione di selezione sui gruppi (n.2)

 □ Trovare il codice dei prodotti rossi forniti da più di un fornitore

> SELECT FP.CodP FROM FP, P WHERE FP.CodP=P.CodP AND Colore='Rosso'

...



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 □ Trovare il codice dei prodotti rossi forniti da più di un fornitore

> SELECT FP.CodP FROM FP, P WHERE FP.CodP=P.CodP AND Colore='Rosso' GROUP BY FP.CodP HAVING COUNT(*)>1;



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Condizione di selezione sui gruppi (n.2)

 □ Trovare il codice dei prodotti rossi forniti da più di un fornitore

F.CodF	F.CodP	F.Qta	P.CodP	P.NomeP	P.Colore	P.Taglia	P.Magazzino
F1	P1	300	P1	Maglia	Rosso	40	Torino
F2	P1	300	P1	Maglia	Rosso	40	Torino
F1	P6	100	P6	Bermuda	Rosso	42	Torino



R CodP



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