

Esercizio 1

$S_1 \leftarrow \langle \text{CodA} \rangle \text{ Fcount}(\text{parola}) \text{ AS conteggio} \rangle (\text{TAG ALBUM})$

Conto il numero di tag per ogni album

$\pi_{\langle \text{CodA}, \text{Nome} \rangle} (\text{FMAX}(\text{conteggio}) (S_1 \bowtie \text{ALBUM}))$

Esercizio 2

SELECT a.Nome

FROM ALBUM a

JOIN FOTO f ON a.CodA = f2.CodAlbum

JOIN TAGFOTO t1 ON t1.CodF = f1.CodF

WHERE t1.parola NOT IN (SELECT t2.parola

FROM TAGFOTO t2

JOIN FOTO f2 ON t2.CodF = f2.CodF

WHERE f2.CodAlbum = f1.CodAlbum)

Esercizio 3

1) ALTER TABLE ALBUM

ADD CONSTRAINT A1

CHECK (SELECT a.owner

FROM ALBUM a) = (SELECT a2.owner

FROM ALBUM a2

WHERE a2.CodA = a.InAlbum

AND a2.CodA <> 'SYSALBUM')

2) CREATE ASSERTION A2

CHECK (NOT EXIST (SELECT 1

FROM FOTO f

JOIN LOG l ON f.CodF = l.CodF

WHERE (f.Rimossa = l.Time AND l.Operation <> 'DELETE')

OR

(f.Rimossa <> l.Time AND l.Operation = 'DELETE')))

3) CREATE ASSERTION A3

CHECK (SELECT l.Time

FROM LOG l

WHERE l.Operation = 'Cancellazione'

OR l.Operation = 'Modifica') > (SELECT f.Aggiunta

FROM FOTO f

WHERE f.CodF = l.CodF)

