Delete from Beers(name, manf) all beers for which there is another beer by the same manufacturer. DELETE FROM Beers b WHERE Beers with the same manufacturer and a different name from the name of

the beer represented

by tuple b.

1

EXISTS (

SELECT name

FROM Beers

Semantics of Deletion --- (2)

WHERE manf = b.manf AND name <> b.name);

- Answer: we do delete Bud Lite as well.
- The reason is that deletion proceeds in two stages:
 - Mark all tuples for which the WHERE condition is satisfied.
 - Delete the marked tuples.

Semantics of Deletion --- (1)

- Suppose Anheuser-Busch makes only Bud and Bud Lite.
- □ Suppose we come to the tuple b for Bud first.
- □ The subquery is nonempty, because of the Bud Lite tuple, so we delete Bud.
- □ Now, when b is the tuple for Bud Lite, do we delete that tuple too?

2

Updates

□ To change certain attributes in certain tuples of a relation:

UPDATE < relation >

SET < list of attribute assignments>

WHERE <condition on tuples>;

Example: Update

□ Change drinker Fred's phone number to 555-1212:

UPDATE Drinkers
SET phone = '555-1212'
WHERE name = 'Fred';

Example: Update Several Tuples

□ Make \$4 the maximum price for beer:

UPDATE Sells

SET price = 4.00

WHERE price > 4.00;

5

6