1.

1) 1. The statement is true because every non-prime attribute is fully functionally dependent on the primary key thus the removal of any attribute from the superkey will cause the FD not to hold anymore. 2: Emisice-number, pet-name) removing an attribute from the set will cause the FD not to hold anymore.
b. 3NF. [Invoice_number/Pet-name/date/owner-name/treatment] fd1 1 1 1 1
Dwner-namel owner-address
[treatment amount]

2. Creating an assertion

CREATE ASSERTION No-Emp-constraint (CHECK (NOT EXISTS (SELECT dept-no, Count(*))

FROM EMPLOYEE ME, DEPARTMENT

ASD

WHERE E.dept-no = D.dept-no

GROUP BY dept-no

HAVING COUNT(*) < 30));