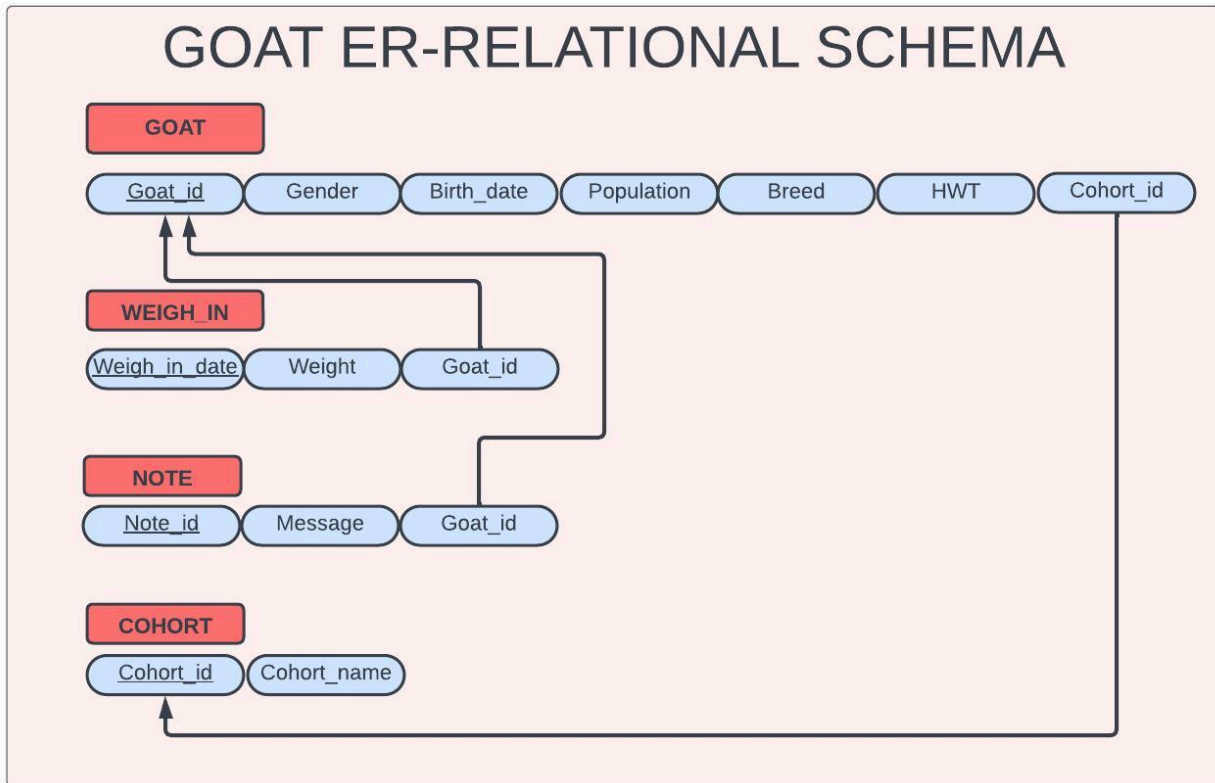


Ben Guerrieri & Zack O'Rourke
Phase IV
3/29/2024

TASK 2:



R1 = {Goat_id, Gender, birth_date, breed, cohort_id}
{GD} -> {G, BD, B, CD}

R2 = {Weigh_in_date, Weight, Goat_id}
{WD} -> {W, GD}

R3 = {Note_id, Message, Goat_id}
{NI} -> {M, GD}

R4 = {cohort_id, cohort_name}
{CD} -> {CN}

2NF:

R1 (GD,BD,B,CD,CN)
R2 (WD,W,GD,BD,B,CD,CN)
R3 (NI,M,GD,BD,B,CD,CN)
R4 (CD,CN)

3NF:

R1.1 (<u>GD</u> ,BD,B,CD)	R1.2(<u>CD</u> ,CN)	
R2.1 (<u>WD</u> ,W,GD)	R2.2(<u>GD</u> ,G, BD,B,CD)	R2.3(<u>CD</u> ,CN)
R3.1 (<u>NI</u> ,M,GD)	R3.2(<u>GD</u> ,BD,B,CD)	R3.3(<u>CD</u> ,CN)
R4 (<u>CD</u> ,CN)		

BCNF:

Already in BCNF

R1.1 (<u>GD</u> ,BD,B,CD)	R1.2(<u>CD</u> ,CN)	
R2.1 (<u>WD</u> ,W,GD)	R2.2(<u>GD</u> ,G, BD,B,CD)	R2.3(<u>CD</u> ,CN)
R3.1 (<u>NI</u> ,M,GD)	R3.2(<u>GD</u> ,BD,B,CD)	R3.3(<u>CD</u> ,CN)
R4 (<u>CD</u> ,CN)		