Introduction: Average sex adjusted 205 weight

This is the average of weights of the calves adjusted according to sex. This is found for the 205 days after birth.

1. Calculate the **adjusted birth weight** from *cattle\_info\_tbl.birth\_weight* and

*cattle\_info\_tbl. cow\_age* (which is the age of the cow which gave birth to this calf). The logic is :

WHEN **cow\_age <= 2 and birth\_weight > 0** THEN **adj\_birth\_wt = birth\_weight + 8**

WHEN **cow\_age =3 and birth\_weight > 0** THEN **adj\_birth\_wt = birth\_weight + 5**

WHEN **cow\_age =4 and birth\_weight > 0** THEN **adj\_birth\_wt= birth\_weight + 2**

WHEN **cow\_age >= 5 and cow\_age <= 10 AND birth\_weight > 0** THEN **adj\_birth\_wt= birth\_weight**

WHEN **cow\_age >=11 and birth\_weight > 0** THEN **adj\_birth\_wt = birth\_weight + 3**

WHEN **birth\_weight = 0 and sex = 1** THEN **adj\_birth\_wt = 75**

WHEN **birth\_weight = 0 and sex = 2** THEN **adj\_birth\_wt = 70**

WHEN **birth\_weight = 0 and sex = 3** THEN **adj\_birth\_wt = 75**

1. Now calculate the ***dam*** field based on the *sex* *and cow\_age*. The logic of the field is not clear yet:

WHEN sex = 2 and cow\_age = 2 THEN dam= 54

WHEN sex = 2 and cow\_age = 3 THEN dam= 36

WHEN sex = 2 and cow\_age = 4 THEN dam= 18

WHEN sex = 2 and cow\_age >= 11 THEN dam= 18

WHEN sex = 1 and cow\_age = 2 THEN dam= 60

WHEN sex = 1 and cow\_age = 3 THEN dam= 40

WHEN sex = 1 and cow\_age = 4 THEN dam= 20

WHEN sex = 1 and cow\_age >=11 THEN dam= 20

WHEN sex = 3 and cow\_age = 2 THEN dam= 60

WHEN sex = 3 and cow\_age = 3 THEN dam= 40

WHEN sex = 3 and cow\_age = 4 THEN dam= 20

WHEN sex = 3 and cow\_age >=11 THEN dam= 20

1. Now calculate **adj\_wt\_205** for all the rows, which is field for adjusted weight after 205 days of birth (i.e. on the 205tth day). This is based on **weight, adj\_birth\_wt and age\_in\_days** fields. The logic is

WHEN age\_in\_days>0 and weight>0 and sex=2

THEN **adj\_wt\_205** = ((((weight-adj\_birth\_wt)/age\_in\_days)\*205)+adj\_birth\_wt+dam ) \* 1.05

WHEN age\_in\_days>0 and weight>0 and sex=1

THEN **adj\_wt\_205** = ((((weight-adj\_birth\_wt)/age\_in\_days)\*205)+adj\_birth\_wt+dam ) \* 0.95

WHEN age\_in\_days>0 and weight>0 and sex=3

THEN **adj\_wt\_205** = ((((weight-adj\_birth\_wt)/age\_in\_days)\*205)+adj\_birth\_wt+dam ) \* 1.00

WHEN age\_in\_days>0 and weight>0 and sex=0

THEN **adj\_wt\_205** = ((((weight-adj\_birth\_wt)/age\_in\_days)\*205)+adj\_birth\_wt+dam ) \* 1.00

ELSE **ad\_wt\_205** = 0

1. Next, calculate the count of calves with adjusted 205 weight greater than zero. The logic is

WHEN @adj\_wt\_205 <> 0 THEN **ad\_wt\_205\_count** = 1

ELSE **ad\_wt\_205\_count** = 0

1. Finally calculate the average adjusted weight for 205 days. The formula is :

**Average\_Sex\_Adjusted\_Weight = SUM (adj\_wt\_205) / SUM (ad\_wt\_205\_count)**