Introduction:

This field actually shows the average weight gain of a calf per day till the time of weaning. This is calculated from actual weight in the *measurement\_tbl* and the *age\_in\_days* calculated the previous query.

1. The first step is to calculate the age in days given by: (calculated in the last query)

**age\_in\_days= weaning.entry\_date - catttle.birth\_date**

1. Now calculate wt\_2\_day\_gain (till weaning) for each calf using weight*, age\_in\_days* and *irr\_calf* fields. The logic is

IF **measurement\_tbl.weight > 0** AND **Age\_in\_days >0** AND **irr\_calf**= **False**

THEN **wt\_2\_day\_gain = weight / age\_in\_days**

ELSE **wt\_2\_day\_gain=0**

1. Now calculate the count of the cows with a valid wt\_2\_day\_gain value. For this define a flag as wt\_2\_day\_gain\_denom. The logic is

IF **age\_in\_days>0** **AND weight>0** THEN wt\_2\_day\_gain\_denom= 1

ELSE wt\_2\_day\_gain\_denom = 0

1. Now calculate the Avg\_weight\_to\_day\_gain. The formula is :

Avg\_weight\_to\_day\_gain=SUM (**wt\_2\_day\_gain**) / SUM (**wt\_2\_day\_gain\_denom**)