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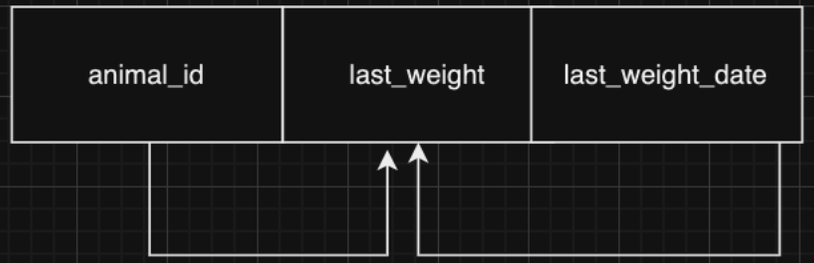
Animal

AnimalInfo

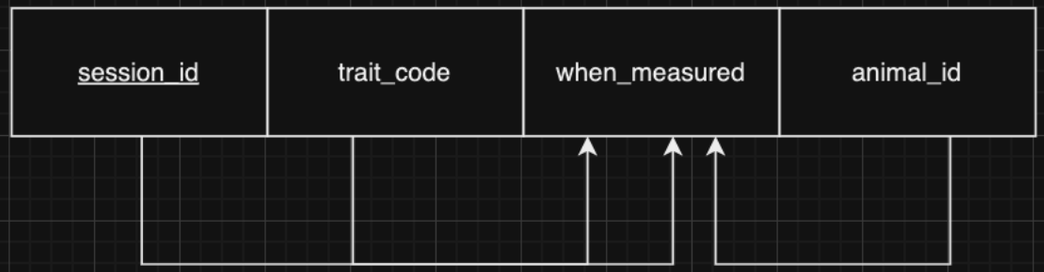
AnimalWeight



Animals:

In our relation, {Animal_id} and {animal_id,last_weight_date} should be the only prime attribute that can be uniquely identified to determine every other non-prime attribute. It is not in BCNF, so we will adjust it. {Animal_id} -> {rfid, tag, dob, sex} and {animal_id,last_weight_date} -> {last_weight}. Since the table can’t be normalized any further, it should be in BCNF.

TRAITS

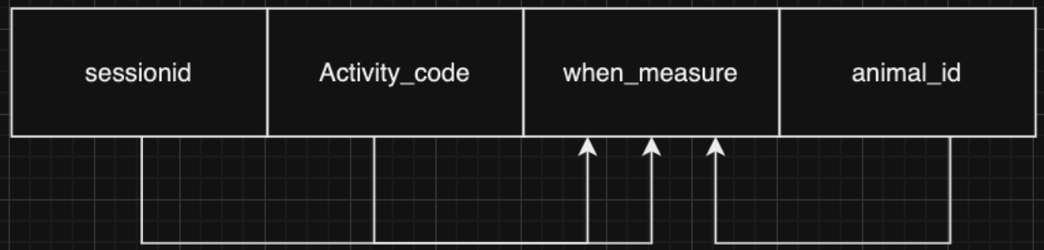


In our relation traits, it should be that {session_id, trait_code, animal_id}-> {when_measured}. Since we can't normalize it any further, it should be in BCNF.

PICKLIST

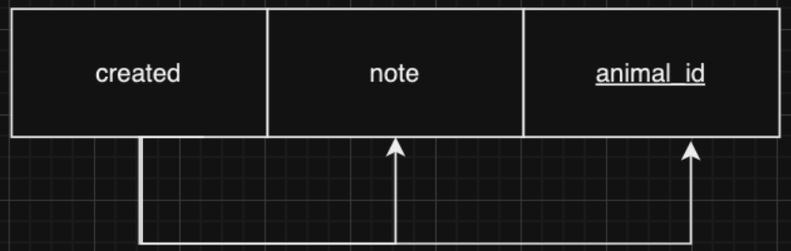
Picklist should be normalized where {picklistvalue_id, picklist_id} ->value. We can't normalize any further as both the prime attributes are necessary in identifying the values.

ACTIVITY



In our relation activity, it's similar logic to traits where {session_id, activity_code, animal_id}-> {when_measure}.

NOTE



In our relation, {created} and {animal_id} should be the prime attributes and {note} is the non-prime attribute as it does not form a candidate key on its own but can be determined by {created}. Since the table can't be normalized any further, it should be in BCNF.