Starting Relational Schema

GOAT

goat_id	sex	overall_adg

TRAIT

goat_id	trait_code	value

PICKLIST VALUE

picklistvalue_id	value

Tables relations

GOAT

goat_id	sex	overall_adg

TRAIT

goat_id	trait_code	value

PICKLIST VALUE

picklistvalue_id	value
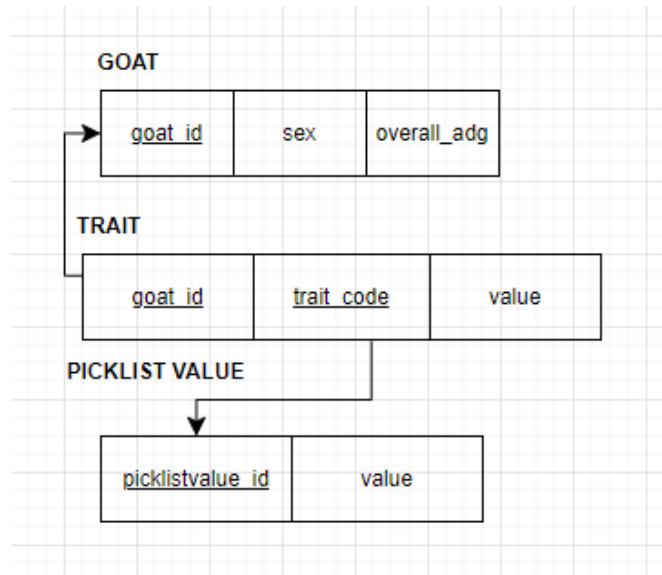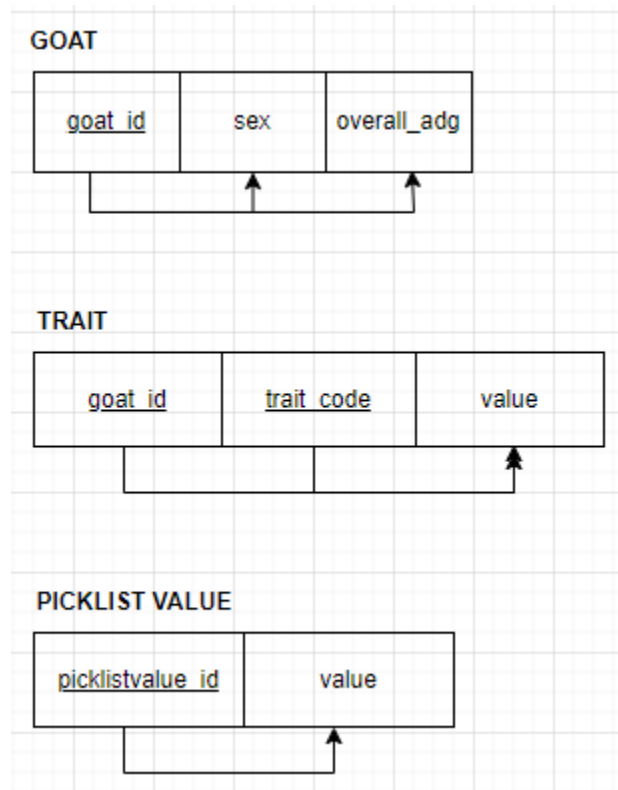
1NF: The table is already in 1NF since it doesn't have any multivalued attributes or composite attributes. Nothing in these tables are redundant.

2NF: Since there aren't many values needed this was easy and already achieved. No partial dependency is seen in these tables. Since the Trait table has a superkey of two primary keys, both of them are needed to get the attribute value.

3NF: Since there are zero transitive dependencies in these tables, it also happens to be in 3NF.

BCNF: From the look of it, these tables don't seem to violate BCNF rules. Therefore we have a BCNF normalized database.