Normalization for form 1

UNF

TRAINING(training_id, training _name, training_duration, training _startdate, training _starttime, clinic_id, clinic_name, training_vetid, training_vetname (vet_id, home_clinic_id, vet_given_name, vet_family_name, completed_status, expiry_date))

1NF

TRAINING(training_id, training_ name, training_duration, training _startdate, training _starttime, clinic_id, clinic_name, training_vetid, training_vetname)

VET(vet_id, home_clinic_id, vet_given_name, vet_family_name, completed_status, expiry_date)

No CK

Partial dependencies:

course_vetid -> course_vetname

clinic_id -> clinic_name

vet_id -> home_clinic_id, vet_given_name, vet_family_name

training_id -> training_vetid, training_vetname

2NF

TRAINING(training_id, training_ name, training_duration, training _startdate, training _starttime)

CLINIC(clinic_id, clinic_name)

TRAINING_INSTRUCTOR(training_id, training_vetid, training_vetname)

VET(vet_id, home_clinic_id, vet_given_name, vet_family_name, completed_status, expiry_date)

No transitive dependencies

3NF

TRAINING(training_id, training_ name, training_duration, training _startdate, training _starttime)

CLINIC(clinic_id, clinic_name)

TRAINING_INSTRUCTOR(training_id, training_vetid, training_vetname)

VET(vet_id, home_clinic_id, vet_given_name, vet_family_name, completed_status, expiry_date)

No transitive dependencies

Full Dependencies:

training_id -> training_ name, training_duration, training _startdate, training _starttime, training_vetid, training_vetname

clinic_id -> clinic_name

vet_id -> home_clinic_id, vet_given_name, vet_family_name, completed_status, expiry_date

Normalization for form 2

UNF

INVOICE(pet_id, pet_name, vet_id, vet_given_name, vet_family_name, owner_id, owner_gname, owner_fname, service_startdate, service_starttime, service_code, service_description, service_linecost, drug_id, drug_name, drug_qty, drug_linecost, total_cost, pay_method)

1NF

INVOICE(<u>pet_id</u>, pet_name, <u>vet_id</u>, vet_given_name, vet_family_name, owner_id, owner_gname, owner_fname, <u>service_startdate</u>, <u>service_starttime</u>, service_code, service_description, service_linecost, drug_id, drug_name, drug_qty, drug_linecost, total_cost, pay_method)

CK: (animal_id, vet_id, service_startdate, service_starttime)

Partial dependencies:

pet_id -> pet_name

vet_id -> vet_given_name, vet_family_name

owner_id -> owner_gname, owner_fname

service_code -> service-description, service_linecost

drug_id -> drug_name

2NF

PET(<u>pet_id</u>, pet_name)

VET(<u>vet_id</u>, vet_given_name, vet_family_name)

OWNER(<u>owner_id</u>, owner_gname, owner_fname)

SERVICE(<u>service_code</u>, service_description, service_linecost)

DRUG(<u>drug_id</u>, <u>drug_qty</u>, drug_linecost)

INVOICE(<u>pet_id</u>, <u>vet_id</u>, <u>service_startdate</u>, <u>service_starttime</u>, total_cost, pay_method)

No Transtive dependencies

3NF

PET(pet_id, pet_name)

VET(vet_id, vet_given_name, vet_family_name)

OWNER(owner_id, owner_gname, owner_fname)

SERVICE(service_code, service_description, service_linecost)

DRUG(drug_id, drug_qty, drug_linecost)

INVOICE(pet_id, vet_id, service_startdate, service_starttime, total_cost, pay_method)

Full Dependencies:

pet_id -> pet_name

vet_id -> vet_given_name, vet_family_name

owner_id -> owner_gname, owner_fname

service_code -> service-description, service_linecost

drug_id, drug_qty -> drug_linecost

pet_id, vet_id, service_startdate, service_starttime -> total_cost, pay_method