Normalisation

Pet Ownership Details

**UNF**

OWNER (owner\_id, owner\_gname, owner\_fname, prefvet\_id, prefvet\_name, owner\_address, (pet\_id, pet\_gender, pet\_name, pet\_type,pet\_dob, pet\_status))

**1NF**

OWNER (owner\_id, owner\_gname, owner\_fname, prefvet\_id, prefvet\_name, owner\_address)

PET (pet\_id, pet\_gender, pet\_name, pet\_type,pet\_dob, pet\_status)

Partial Dependencies:

No Partial Dependency

**2NF**

OWNER (owner\_id, owner\_gname, owner\_fname, prefvet\_id, prefvet\_name, owner\_address)

PET (pet\_id, pet\_gender, pet\_name, pet\_type,pet\_dob, pet\_status)

Transitive Dependencies:

prefvet\_id → prefvet\_name

**3NF**

OWNER (owner\_id, owner\_gname, owner\_fname, prefvet\_id, owner\_address)

PET (pet\_id, pet\_gender, pet\_name, pet\_type, pet\_dob, pet\_status)

VET (prefvet\_id, prefvet\_name)

Full Dependencies:

owner\_id → unit\_name, owner\_gname, owner\_fname, prefvet\_id, owner\_address

pet\_id → pet\_gender, pet\_name, pet\_type, pet\_dob, pet\_status

prefvet\_id → prefvet\_name

Visit Invoice

**UNF**

INVOICE (Patient\_id, patient\_name, vet\_id, vet\_name, amount\_due, payment\_method, serv\_date, serv\_time, (serv\_code,serv\_desc,serv\_cost), (drug\_id,drug\_name,qty\_supplied,drug\_cost))

**1NF**

INVOICE (Patient\_id, vet\_id, serv\_time, serv\_date patient\_name, vet\_name, amount\_due, payment\_method)

SERVICE (serv\_code,serv\_desc,serv\_cost)

DRUG (drug\_id,drug\_name,qty\_supplied,drug\_cost)

Partial Dependencies:

Patient\_id → patient\_name

Vet\_id → vet\_name

**2NF**

INVOICE (Patient\_id, vet\_id, serv\_time, serv\_date , amount\_due, payment\_method)

SERVICE (serv\_code, serv\_desc,serv\_cost)

DRUG (drug\_id, drug\_name,qty\_supplied,drug\_cost)

PATIENT (Patient\_id, patient\_name)

VET (vet\_id, vet\_name)

Transitive Dependencies:

No transitive dependencies

**3NF**

INVOICE (Patient\_id, vet\_id, serv\_time, serv\_date , amount\_due, payment\_method)

SERVICE (serv\_code, serv\_desc,serv\_cost)

DRUG (drug\_id, drug\_name,qty\_supplied,drug\_cost)

PATIENT (Patient\_id, patient\_name)

VET (vet\_id, vet\_name)

Full Dependencies:

Patient\_id, vet\_id, serv\_time, serv\_date → amount\_due, payment\_method

serv\_code → serv\_desc,serv\_cost

drug\_id → drug\_name,qty\_supplied,drug\_cost

Patient\_id → patient\_name

vet\_id → vet\_name

COLLECTED 3NF RELATIONS:

1.OWNER (owner\_id, owner\_gname, owner\_fname, prefvet\_id, owner\_address)

2.PET (pet\_id, pet\_gender, pet\_name, pet\_type, pet\_dob, pet\_status)

3.VET (prefvet\_id, prefvet\_name)

4.INVOICE (Patient\_id, vet\_id, serv\_time, serv\_date , amount\_due, payment\_method)

5.SERVICE (serv\_code, serv\_desc,serv\_cost)

6.DRUG (drug\_id, drug\_name,qty\_supplied,drug\_cost)

7.PATIENT (Patient\_id, patient\_name)

8.VET (vet\_id, vet\_name)

ATTRIBUTE SYNTHESIS

1. OWNER (owner\_id, owner\_gname, owner\_fname, prefvet\_id, owner\_address)

2. PET (pet\_id, pet\_gender, pet\_name, pet\_type, pet\_dob, pet\_status)

3 & 8. VET (vet\_id, vet\_name)

4. INVOICE (Patient\_id, vet\_id, serv\_time, serv\_date , amount\_due, payment\_method)

5. SERVICE (serv\_code, serv\_desc,serv\_cost)

6. DRUG (drug\_id, drug\_name,qty\_supplied,drug\_cost)

7. PATIENT (Patient\_id, patient\_name)