**FIT3171 Assignment 1B**

**ANIMAL DOCTORS PET OWNERSHIP DETAILS**

**UNF**

OWNER (owner\_id, owner\_givname, owner\_famname, owner\_addstreet, owner\_addtown, owner\_addpostcode, pref\_vetid, pref\_vetname, (pet\_id, pet\_gender, pet\_name, pet\_type, pet\_bdate, pet\_deceased)

**1NF**

OWNER (owner\_id, owner\_givname, owner\_famname, owner\_addstreet, owner\_addtown, owner\_addpostcode, pref\_vetid, pref\_vetname)

PET (owner\_id, pet\_id, pet\_gender, pet\_name, pet\_type, pet\_bdate, pet\_deceased)

Partial dependencies:

No partial dependencies present

**2NF**

OWNER (owner\_id, owner\_givname, owner\_famname, owner\_addstreet, owner\_addtown, owner\_addpostcode, pref\_vetid, pref\_vetname)

PET (owner\_id, pet\_id, pet\_gender, pet\_name, pet\_type, pet\_bdate, pet\_deceased)

Transitive dependencies:

pref\_vetid 🡪 pref\_vetname

**3NF**

OWNER (owner\_id, owner\_givname, owner\_famname, owner\_addstreet, owner\_addtown, owner\_addpostcode, pref\_vetid)

PREFERENCE (pref\_vetid, pref\_vetname)

PET (owner\_id, pet\_id, pet\_gender, pet\_name, pet\_type, pet\_bdate, pet\_deceased)

Full dependencies:

owner\_id 🡪 owner\_givname, owner\_famname, owner\_addstreet, owner\_addtown, owner\_addpostcode, pref\_vetid

pref\_vetid 🡪 pref\_vetname

pet\_id 🡪 owner\_id, pet\_gender, pet\_name, pet\_type, pet\_bdate, pet\_deceased

**ANIMAL DOCTORS INVOICE FOR PROFESSIONAL SERVICES**

**UNF**

VISIT (pet\_id, pet\_name, service\_vet\_id, service\_vet\_name, visit\_date, visit\_time, (service\_code, service\_desc, service\_cost), (drug\_id, drug\_name, drug\_qty, drug\_cost), visit\_totalcost, visit\_paidby)

**1NF**

VISIT (pet\_id, pet\_name, service\_vet\_id, service\_vet\_name, visit\_date, visit\_time, visit\_totalcost, visit\_paidby)

VISIT\_SERVICE (pet\_id, visit\_date, visit\_time, service\_code, service\_desc, service\_cost)

VISIT\_PRESCRIPTION (pet\_id, visit\_date, visit\_time, drug\_id, drug\_name, drug\_qty, drug\_cost)

Partial dependencies:

pet\_id 🡪 pet\_name

service\_code 🡪 service\_desc

drug\_id 🡪 drug\_name

**2NF**

VISIT (pet\_id, service\_vet\_id, service\_vet\_name, visit\_date, visit\_time, visit\_totalcost, visit\_paidby)

PET (pet\_id, pet\_name)

VISIT\_SERVICE (pet\_id, visit\_date, visit\_time, service\_code, service\_cost)

SERVICE (service\_code, service\_desc)

VISIT\_PRESCRIPTION (pet\_id, visit\_date, visit\_time, drug\_id, drug\_qty, drug\_cost)

DRUG (drug\_id, drug\_name)

Transitive dependencies:

service\_vet\_id 🡪 service\_vet\_name

**3NF**

VISIT (pet\_id, service\_vet\_id, visit\_date, visit\_time, visit\_totalcost, visit\_paidby)

SERVICE\_VET (service\_vet\_id, service\_vet\_name)

PET (pet\_id, pet\_name)

VISIT\_SERVICE (pet\_id, visit\_date, visit\_time, service\_code, service\_cost)

SERVICE (service\_code, service\_desc)

VISIT\_PRESCRIPTION (pet\_id, visit\_date, visit\_time, drug\_id, drug\_qty, drug\_cost)

DRUG (drug\_id, drug\_name)

Full dependencies:

pet\_id, visit\_date, visit\_time 🡪 service\_vet\_id, visit\_totalcost, visit\_paidby

service\_vet\_id 🡪 service\_vet\_name

pet\_id 🡪 pet\_name

pet\_id, visit\_date, visit\_time, service\_code 🡪 service\_cost

service\_code 🡪 service\_desc

pet\_id, visit\_date, visit\_time, drug\_id 🡪 drug\_qty, drug\_cost

drug\_id 🡪 drug\_name

**COLLECTED 3NF RELATIONS:**

1. OWNER (owner\_id, owner\_givname, owner\_famname, owner\_addstreet, owner\_addtown, owner\_addpostcode, pref\_vetid)
2. PREFERENCE (pref\_vetid, pref\_vetname)
3. PET (owner\_id, pet\_id, pet\_gender, pet\_name, pet\_type, pet\_bdate, pet\_deceased)
4. VISIT (pet\_id, service\_vet\_id, visit\_date, visit\_time, visit\_totalcost, visit\_paidby)
5. SERVICE\_VET (service\_vet\_id, service\_vet\_name)
6. PET (pet\_id, pet\_name)
7. VISIT\_SERVICE (pet\_id, visit\_date, visit\_time, service\_code, service\_cost)
8. SERVICE (service\_code, service\_desc)
9. VISIT\_PRESCRIPTION (pet\_id, visit\_date, visit\_time, drug\_id, drug\_qty, drug\_cost)
10. DRUG (drug\_id, drug\_name)

**ATTRIBUTE SYNTHESIS:**

1  
OWNER (owner\_id, owner\_givname, owner\_famname, owner\_addstreet, owner\_addtown, owner\_addpostcode, pref\_vetid)

2  
PREFERENCE (pref\_vetid, pref\_vetname)

3 and 6 - merge  
PET (owner\_id, pet\_id, pet\_gender, pet\_name, pet\_type, pet\_bdate, pet\_deceased)

4  
VISIT (pet\_id, service\_vet\_id, visit\_date, visit\_time, visit\_totalcost, visit\_paidby)

5  
SERVICE\_VET (service\_vet\_id, service\_vet\_name)

7  
VISIT\_SERVICE (pet\_id, visit\_date, visit\_time, service\_code, service\_cost)

8  
SERVICE (service\_code, service\_desc)

9  
VISIT\_PRESCRIPTION (pet\_id, visit\_date, visit\_time, drug\_id, drug\_qty, drug\_cost)

10  
DRUG (drug\_id, drug\_name)