Databases Assignment 1B

Normalisation

* 1. Visit Invoice

**UNF**

APPOINTMENT(app\_datetime, vet\_id, patient\_id, patient\_name, app\_paymethod, app\_totalamount, vet\_name, (service\_code, service\_description, service\_cost), (drug\_id, drug\_name, drug\_qty, drug\_cost))

**1NF**

APPOINTMENT(app\_datetime, vet\_id, patient\_id, patient\_name, app\_paymethod, app\_totalamount, vet\_name)

JOB(app\_datetime, vet\_id, service\_code, service\_description, service\_cost)

PRESCRIPTION (app\_datetime, vet\_id, drug\_id, drug\_name, drug\_qty, drug\_cost)

*Partial Dependencies*

vet\_id 🡪 vet\_name

service\_code 🡪 service\_description, service\_cost

drug\_id 🡪 drug\_name, drug\_cost

**2NF**

APPOINTMENT(app\_datetime, vet\_id, patient\_id, patient\_name, app\_paymethod, app\_totalamount)

JOB(app\_datetime, vet\_id, service\_code)

SERVICE(service\_code, service\_description, service\_cost)

PRESCRIPTION(drug\_id, app\_datetime, vet\_id, drug\_qty)

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

VET(vet\_id, vet\_name)

*Transitive Dependencies*

patient\_id 🡪 patient\_name

**3NF**

APPOINTMENT(app\_datetime, vet\_id, patient\_id, app\_paymethod, app\_totalamount)

JOB(app\_datetime, vet\_id, service\_code)

SERVICE(service\_code, service\_description, service\_cost)

PRESCRIPTION(drug\_id, app\_datetime, vet\_id, drug\_qty)

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

VET(vet\_id, vet\_name)

PATIENT(patient\_id, patient\_name)

*Full Dependencies*

app\_datetime, vet\_id 🡪 patient\_id, app\_paymentmethod, app\_totalamount

service\_code 🡪 service\_description, service\_cost

drug\_id, app\_datetime, vet\_id 🡪 drug\_qty

vet\_id 🡪 vet\_name

patient\_id 🡪 patient\_name

* 1. Pet Ownership Details

**UNF**

OWNERSHIP(owner\_id, owner\_gname, owner\_fname, owner\_street, owner\_town, owner\_postcode, vet\_id, vet\_name, (pet\_id, pet\_gender, pet\_name, pet\_type, pet\_dob, pet\_deceased))

**1NF**

OWNERSHIP(owner\_id, owner\_gname, owner\_fname, owner\_street, owner\_town, owner\_postcode, vet\_id, vet\_name)

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