Brief

I used mySQL and MySQLWorkbench for the project. This was to help me work efficiently with a GUI and also with SQL queries as I am more familiar with Workbench than XAMPP. The address of each owner and staff members needs to be added first. Both tables have *address_id* as a non-null field. Records cannot be reliably added without an existing *address_id*.

I created the views *today* and *open_appointments_today*. For the purposes of the assignment *today* and *open_appointments_today* is set to April 2023. In a production environment this can be changed to dynamically update by getting todays date and comparing that against the *date_time* value. The contents of the views can be updated which in turn updates the corresponding table. For example, you could update the *isCancelled* value of an appointment in the *today* view. This would then remove it from the *open_appointments_today* view.

Implementation

- 1) Create a schema in your DBMS of choice.
- 2) Import the file G00296371 Schema Structure.sql to add the table structure.
- 3) Verify the tables have been added successfully.
- 4) Import the file G00296371 Schema Data.sql to add the test data to the tables.
- 5) Verify the table data has been added successfully.

Note

If you encounter a #1273 – Unknown collation error you may need to update all occurrences of COLLATE to utf8mb4_unicode_ci to ensure compatibility. The files have already been updated and I was able to import them to XAMPP with no issues.

Tables

- Addresses Acts as the single source of info for owners and staff added to the database. Other tables are based of the information in addresses.
- · Animals Holds all information related to animals.
- · Appointments Holds all information related to appointments.
- Owners Holds all information about the owners of the animals being brought to the practise.
- Payment Line Items Individual line items for payments
- · Payments Payment amount, status and owner information
- · Staff Holds all information for active and inactive staff
- Treatment Guide A general reference guide staff can use when creating treatments and payments
- Treatments Holds all information on treatments for specific animals for appointments

Views

Today - All appointments, including cancelled ones, for "today" April 2023 Open Appointments Today - All appointments, only confirmed ones, for "today" April 2023

Foreign Keys

Addresses - no Foreign Keys

Animals - animal_owner connected owners and animals tables: owner_id to owners.id Appointments - appointment_animal connected animals and appointments tables: animal_id to animals.id, appointment_payment connects payments and appointments tables: payment_id to payments.id, appointment_vet connects staff and appointments tables: with_vet to staff.id Owners - owner_address connects addresses and owners tables: address_id to addresses.id, owner_animal connects animals and owners tables: animal_id to animals.id

Payment line items - payments_line_item connects payments and payment line items tables: payment_id to payments.id

Payments - payment_for_appointment connects appointments and payments tables: appointment_id to appointments.id, payment_for_owner connects owners and appointments tables: owner_id to owners.id

Staff - address_id connects staff and addresses tables: address_id to <u>addresses.id</u> Treatment Guide - no FKs

Treatments - treatment_animal connects animals and treatments tables: animal_id to animals.id, treatment_appointment connects appointments and treatments tables: appointment_id to appointments.id