```
/* SECTION 1 - CREATE TABLE STATEMENTS */
CREATE TABLE adgf088 Pet (
    petID int(7) PRIMARY KEY,
    petType varchar(255),
    petBreed varchar (255) NULL,
    pet name varchar(255),
    birthDate char(8) NULL,
    birthYear int(4)
);
CREATE TABLE adgf088 Family (
    surname varchar(255),
    f telephone varchar (255),
    f address varchar(255),
    membership char(1),
    petID int(10),
    PRIMARY KEY (surname, petID),
    FOREIGN KEY (petID) REFERENCES adgf088 Pet (petID)
);
CREATE TABLE adgf088 Vet (
    vetID int(5) PRIMARY KEY,
    vet name varchar(255),
    v telephone varchar(255),
    v address varchar(255) NULL,
    title varchar(10) NULL,
    jobDuration int(2)
);
CREATE TABLE adgf088 MedPrescribed (
    medicineID int(6) PRIMARY KEY,
    medName varchar(255),
    manufacturerName varchar(255),
    medType varchar(255)
);
CREATE TABLE adgf088 Appointment (
    appointmentID int(9) PRIMARY KEY,
    appointDate char(8),
    appointTime char(5),
    description varchar(255),
    appointDuration int(2),
    vetID int(5),
    petID int(7),
    medicineID int(6),
    FOREIGN KEY(vetID) REFERENCES adgf088_Vet(vetID),
    FOREIGN KEY(petID) REFERENCES adgf088 Pet(petID),
    FOREIGN KEY (medicineID) REFERENCES adgf088 MedPrescribed (medicineID)
/* SECTION 2 - INSERT STATEMENTS */
INSERT INTO adgf088 Pet(petID, petType, petBreed, pet name, birthDate,
birthYear)
VALUES (2947418, 'Cat', 'Himalayan', 'Mitzy', '03/09/15', 2015),
```

```
(2342638, 'Dog', 'Labrador', 'Coco', '11/04/12', 2012),
(2367313, 'Hamster', 'Syrian', 'Heidi', '24/02/22', 2022),
(2638424, 'Cat', NULL, 'Cinammon', NULL, 2016),
(2345241, 'Gecko', NULL, 'Harry', '11/03/19', 2019),
(2568429, 'Rabbit', 'Netherland Dwarf', 'Willow', NULL, 2020),
(2557391, 'Dog', 'Husky', 'Hunter', '23/11/23', 2023),
(2839475, 'Guinea pig', NULL, 'Max', '06/01/21', 2021),
(2458394, 'Dog', 'Chihuahua', 'Fifi', NULL, 2014),
(2835481, 'Hamster', 'Roborovski', 'Smartie', '18/05/23', 2023),
(2793094, 'Cat', 'Siamese', 'Rory', '10/03/17', 2017),
(2364893, 'Dog', 'Doberman', 'Rufus', '23/07/12', 2012);
INSERT INTO adgf088 Family(surname, f telephone, f address, membership,
VALUES('Hendrick','07749435219', '12 Bale Drive, SM78RT', 'P',2364893),
('Gertrude', '07358350278', '149 Hallow Street, DR62YU', 'S', 2835481),
('Finchley', '07289245864','3 Duke Road, WE480P', 'P',2345241),
('White', '07349267109', '23 Camberley Court, KL81VD', 'N', 2947418), ('Vernon', '07269461051', '89 Baker Lane, SM70ES', 'N', 2367313),
('Lowe', '07297464740', '94 Cannon Street, DR290K', 'S', 2793094), ('Ayuk', '07846194153', '11 Castle Court, A029HY', 'P', 2458394),
('Gillian', '07582853190','6 Maberley Avenue, WE42HN','S',2839475),
('Howard', '07642955187', '115 Jide Drive, CO39SA', 'P', 2638424),
('Worley', '07816384964', '30 Opium Court, KL28QS', 'N',2342638),
('Singh', '07517495394', '93 Maple Street, QW35JN', 'S',2568429),
('Duke', '07621808321', '80 Sesame Avenue, KL50RU', 'S',2557391);
INSERT INTO adgf088 Vet(vetID, vet name, v telephone, v address, title,
jobDuration)
VALUES (39842, 'Sarah Williams', '07494302357', '14 Wemberley Drive,
SW30NB', 'Miss', 05),
(37624, 'Daniel Hugh', '07394130841', NULL, 'Mr', 02),
(32856, 'Kirsty Wright', '07184372209', '108 Bale Drive, SM79EY', 'Mrs',
03),
(37314, 'Lisa Fu', '07324486136', NULL, 'Mrs', 07),
(31093, 'John Black', '07610736238', '19 Green Court, TD28JK', 'Mr', 03),
(36190, 'Derek Nash', '07294750145', '51 Valley Drive, KL450P', 'Mr', 10),
(30312, 'Lily Younge', '07345209621', NULL, 'Mrs', 09),
(39734, 'Amy Ferguson', '07213983120','20 Dew Street, AO94UI','Miss',
01),
(39283, 'Oliver Thompson', '07472491739', '105 Burrow Street,
QH83LC','Mr', 04),
(38629, 'Emilia Clark', '07391401834', '85 Miller Road, WE410V', NULL, 06),
(31634, 'Terry Farlow', '07364193180', '10 Gable Court, SD71LK', 'Mr', 01);
INSERT INTO adgf088 MedPrescribed (medicineID, medName, manufacturerName,
medType)
VALUES(845248, 'Verillin', 'VAXINC', 'Painkiller'),
(830909, 'Normalex', 'NeraPharm', 'Antibiotic'),
(835931, 'Methalix', 'VAXINC', 'Laxitive'),
(864201, 'Bethanol', 'Helajab', 'Vaccine'),
(849252, 'Tri-butalec', 'Pfizer', 'Anti-fungal'),
(852597, 'Phormatidine', 'NeraPharm', 'Antihistamine'),
(825105, 'Valexicon', 'Clinixia', 'Antacid'),
(832560, 'Metadine', 'Helajab', 'Antiseptic'),
```

```
(846019, 'Kizanex', 'Pharmacon', 'Ointment'),
(819328, 'Narofon', 'Pfizer', 'Sedative'),
(850412, 'Optomin', 'Pharmacon', 'Antiviral');
INSERT INTO adgf088 Appointment(appointmentID, appointDate, appointTime,
description, appointDuration, vetID, petID, medicineID)
VALUES (512494032, '07/08/20', '10:00', 'Broken left leg', 30, 30312,
2345241, 845248),
(584920523, '14/04/19', '15:45', 'Sickness bug', 15, 39283, 2793094,
830909),
(538561947, '11/02/21', '12:30', 'Surgery preparation', 45, 38629,
2458394, 864201),
(584952452, '15/01/22', '17:00', 'Removal of fleas', 15, 31093, 2364893,
(569438357, '30/05/23', '13:00', 'Ingested bad food', 30, 37314, 2345241,
825105),
(589528492, '22/04/20', '16:15', 'Burn on fur', 15, 37624, 2557391,
846019),
(524847051, '18/07/22', '09:30', 'Surgery preparation', 45, 31634,
2835481,832560),
(529475910, '26/10/21', '12:45', 'FowlPox vaccine', 15, 36190, 2638424,
(531304586, '14/01/23', '14:30', 'Broken right leq', 30, 39734, 2568429,
849252),
(518485607, '27/09/19', '10:00', 'High temperature and sickness', 60,
31093, 2342638, 850412),
(520624680, '19/08/22', '11:15', 'Surgery preparation', 45, 39842,
2947418, 852597);
/* SECTION 3 - UPDATE STATEMENTS */
UPDATE adgf088 Family
SET f telephone = '07534103340', membership = 'S'
WHERE petID = 2458394;
UPDATE adgf088 Vet
SET vet name = 'Lily Morris', v address = '63 Highland Avenue, ER28YU',
title = 'Mrs'
WHERE vetID = 30312;
/* SECTION 4 - SINGLE TABLE SELECT STATEMENTS - The queries must be
explained in natural (English) language first, and then followed up by
respective SELECTs*/
/*
1) List the surnames and pet IDs in the family table which contain the
words: 'Street' or 'Court' in the address
SELECT surname, petID
FROM adgf088 Family
WHERE f address LIKE "%Street%" OR f address LIKE "%Court%"
```

```
2) List the pet names and pet types in the pet table that contain a value
in descending order
SELECT pet name, petType
FROM adgf088 Pet
WHERE petBreed IS NOT NULL
ORDER BY pet name DESC;
/*
3) List the pet IDs and pet names of pets that were born between the
years, 2020 and 2022, in alphabetical order of pet names
* /
SELECT petID, pet_name
FROM adgf088 Pet
WHERE birthYear < 2022 AND birthYear >= 2020
ORDER BY pet name;
/*
4) List the number of manufacturer names in the medPrescribed table that
contain the letters 'fiz' within the name
*/
SELECT COUNT (manufacturerName) FROM adgf088 MedPrescribed
WHERE manufacturerName LIKE " fiz%";
/*
5) Display the total average job duration (up till present) of female
vets working in the clinic
*/
SELECT AVG(jobDuration)
FROM adgf088 Vet
WHERE title = "Miss" OR title = "Mrs";
```

```
6) Display the number of appointments of different lengths from the
appointment table
SELECT COUNT(DISTINCT appointDuration) FROM adgf088 Appointment;
/* SECTION 5 - MULTIPLE TABLE SELECT STATEMENTS - The queries must be
explained in natural (English) language first, and then followed up by
respective SELECTs */
/*
1) Display the Appointment ID and pet name records together only where
the appointment duration was less than 45 minutes
*/
SELECT adgf088 Appointment.AppointmentID, adgf088 Pet.pet name
FROM adgf088 Appointment
INNER JOIN adgf088 Pet ON adgf088 Appointment.PetID = adgf088 Pet.PetID
WHERE adgf088 Appointment.appointDuration < 45;
/*
2) Display which vet prescribed which medicine and what the description
of the appointment was. Also display all the records in the Appointment
and MedPrescribed table
*/
SELECT adgf088 Vet.vetID, adgf088 Vet.vet name,
adgf088 Appointment.description, adgf088 MedPrescribed.medName
FROM adqf088 Vet
RIGHT JOIN adgf088 Appointment ON adgf088 Vet.vetID =
adgf088 Appointment.vetID
RIGHT JOIN adgf088 MedPrescribed ON adgf088 Appointment.medicineID =
adgf088 MedPrescribed.medicineID;
3) Return all the records from both tables, Family and Pet. Display
family surnames and which pet type and pet breed they own
SELECT adgf088 Family.surname, adgf088 Pet.petType, adgf088 Pet.petBreed
FROM adgf088 Family
CROSS JOIN adgf088 Pet
WHERE adgf088 Family.petID = adgf088 Pet.petID AND adgf088 Pet.petBreed
IS NOT NULL;
```

```
4) First select the medicine ID from appointments that lasted 15 minutes.
Then display the name of the medicines which are not in that medicine ID
list, ordered alphabetically
* /
SELECT medName
FROM adgf088 MedPrescribed
WHERE medicineID NOT IN
     (SELECT medicineID
      FROM adgf088 Appointment
      WHERE appointDuration = 15)
ORDER BY medName;
/*
5) Display the manufacturer name and how many times their medicines have
been prescribed during appointments. Ensure they are grouped by the
manufacturer name. Ensure the specific appointment ID is displayed aswell
*/
SELECT adgf088 MedPrescribed.manufacturerName, COUNT(*),
adgf088 Appointment.appointmentID FROM adgf088 MedPrescribed
LEFT JOIN adgf088 Appointment ON adgf088 Appointment.medicineID =
adgf088 MedPrescribed.medicineID
GROUP BY manufacturerName;
6) Display the name of the pet which has more than one appointment
included in the database and display the count for the number of
appointments for that pet
SELECT adgf088 Pet.pet name, COUNT(adgf088 Appointment.PetID)
FROM adgf088 Appointment
INNER JOIN adgf088_Pet ON adgf088_Appointment.petID = adgf088_Pet.petID
GROUP BY pet_name
HAVING COUNT(adgf088 Appointment.PetID) > 1;
/* SECTION 6 - DELETE ROWS (make sure the SQL is commented out in this
section) */
```

```
DELETE FROM adgf088_Appointment WHERE appointDate = '14/01/23';

*/
/* Due to foreign keys, this DROP statement requires a primary key to be removed first from a different table, creating an extra delete command */
/*

DELETE FROM adgf088_Appointment WHERE medicineID = 832560;

DELETE FROM adgf088_MedPrescribed WHERE medicineID = 832560;

*/

/* SECTION 7 - DROP TABLES (make sure the SQL is commented out in this section)

DROP TABLE adgf088_Family;

DROP TABLE adgf088_Appointment;

DROP TABLE adgf088_Pet;

DROP TABLE adgf088_Vet;

DROP TABLE adgf088_MedPrescribed;

*/
```