DATABASE MANAGEMENT SYSTEMS

Assignment 1

**Database Name: Menagerie**

**User Name: charanjit2619**

**Password: cpsc46206620**

Pet Table:

Table

Description automatically generated

Event Table:

Text, table

Description automatically generated

**Query 1**: Display the structure for pet and event tables respectively.

Pet Table Structure:

**DESCRIBE pet;**

**OUTPUT:**

Table

Description automatically generated

Event Table Structure:

**DESCRIBE event;**

**OUTPUT:**

Table

Description automatically generated

**Query 2**: Retrieve the information for all female dogs from pet table.

**SELECT \* FROM pet WHERE species = ‘dog’ AND sex = ‘f’;**

**OUTPUT:**



**Query3**: Display owner, name, sex, and species of the youngest pet.

**SELECT owner, name, sex, species FROM pet WHERE birth = (SELECT Max(birth) from pet WHERE death is NULL);**

Graphical user interface

Description automatically generated with medium confidence

**OUTPUT:**

**Query 4**: Use MySQL pattern matching to retrieve information from table pet for pets whose name starts with 'B' and ends with 'Y'.

**SELECT \* FROM pet WHERE name LIKE 'b%y';**

**OUTPUT:**



**Query 5**: List owner, name, species, event type, and event remark of the pets who had 'litter' event.

**SELECT owner, pet.name, species, type, remark FROM**

**pet INNER JOIN event on pet.name = event.name**

**WHERE event.type = 'litter';**

**OUTPUT:**

Table

Description automatically generated

**Query 6**: List the owner who has the most number of female pets.

**CREATE TABLE max\_female\_pets AS (SELECT owner, COUNT(\*) AS num FROM pet where sex = 'f' GROUP BY owner);**

**SELECT owner FROM max\_female\_pets WHERE num = (SELECT MAX(num) FROM max\_female\_pets);**

**DROP TABLE max\_female\_pets;**

A close up of a sign

Description automatically generated with low confidence

**OUTPUT:**

**Query 7**: Use regular expression pattern matching to show name, owner, and birth date of the pets whose names start with ‘F’ and end with ‘y’ or ‘r’ in table pet.

**SELECT name, owner, birth FROM pet WHERE name REGEXP '^F' AND name REGEXP '[ry]$';**

Graphical user interface

Description automatically generated

**OUTPUT:**

**Query 8**: Query table pet to show sex and the number of pets in different sex categories as num.

**SELECT sex, count(\*) as num FROM pet GROUP BY sex;**

Graphical user interface, application, Teams

Description automatically generated

**OUTPUT:**

**Query 9**: Change the sex of pet named “Whistler” to “m”.

**UPDATE pet SET sex = 'm' WHERE name = 'Whistler';**

**OUTPUT:**

Table

Description automatically generated

**Query 10**: Remove all dogs from table pet.

**DELETE FROM pet WHERE species = 'dog';**

**OUTPUT:**

