Jane Mburu

Database Design for Daisy's Dog Groomers

Objective

- The goal of this assignment was to:
  1. Design a comprehensive database for Daisy's Dog Groomers to efficiently manage their business and operations.
  2. Answer specific questions about the database to ensure it meets all client requirements.

Database Key Components

- Owners Table
- Dogs Table
- Groomers Table
- Appointment Table
- Billing Table

Assignment 1: Codes

```sql
create table owner(
owner_id int not null auto_increment primary key,
owner_name varchar(256) not null,
owner_email varchar(256) not null,
owner_phone_number varchar(256) not null

);
CREATE TABLE dog (
    dog_id INT NOT NULL AUTO_INCREMENT PRIMARY KEY,
    dog_owner_id INT NOT NULL,
    dog_name VARCHAR(256) NOT NULL,
    dog_breed VARCHAR(256) NOT NULL,
    dog_notes VARCHAR(256),
    FOREIGN KEY (dog_owner_id)
        REFERENCES owner (owner_id)
);
CREATE TABLE groomer (
    groomer_id INT NOT NULL AUTO_INCREMENT PRIMARY KEY,
    groomer_name VARCHAR(256) NOT NULL,
    groner_email VARCHAR(256) NOT NULL,
    groomer_phore_number VARCHAR(256) NOT NULL
);
```

Create all the necessary tables according to the requirements and ER Diagram above.

Assignment 1: Codes

```sql
CREATE TABLE appointment (
    appointment_id INT NOT NULL AUTO_INCREMENT PRIMARY KEY,
    groomer_id INT NOT NULL,
    dog_id INT NOT NULL,
    appointment_date_time DATETIME,
    appointment_bath BOOLEAN,
    appointment_haircut BOOLEAN,
    appointment_the_works BOOLEAN,
    appointment_status ENUM('pending', 'complete'),
    FOREIGN KEY (groomer_id)
        REFERENCES groomer (groomer_id),
    FOREIGN KEY (dog_id)
        REFERENCES dog (dog_id)
);

CREATE TABLE billing (
    billing_id INT NOT NULL AUTO_INCREMENT PRIMARY KEY,
    billing_date DATE,
    appointment_id INT NOT NULL,
    billing_amount DECIMAL(10 , 2 ),
    FOREIGN KEY (appointment_id)
        REFERENCES appointment (appointment_id)
);
```

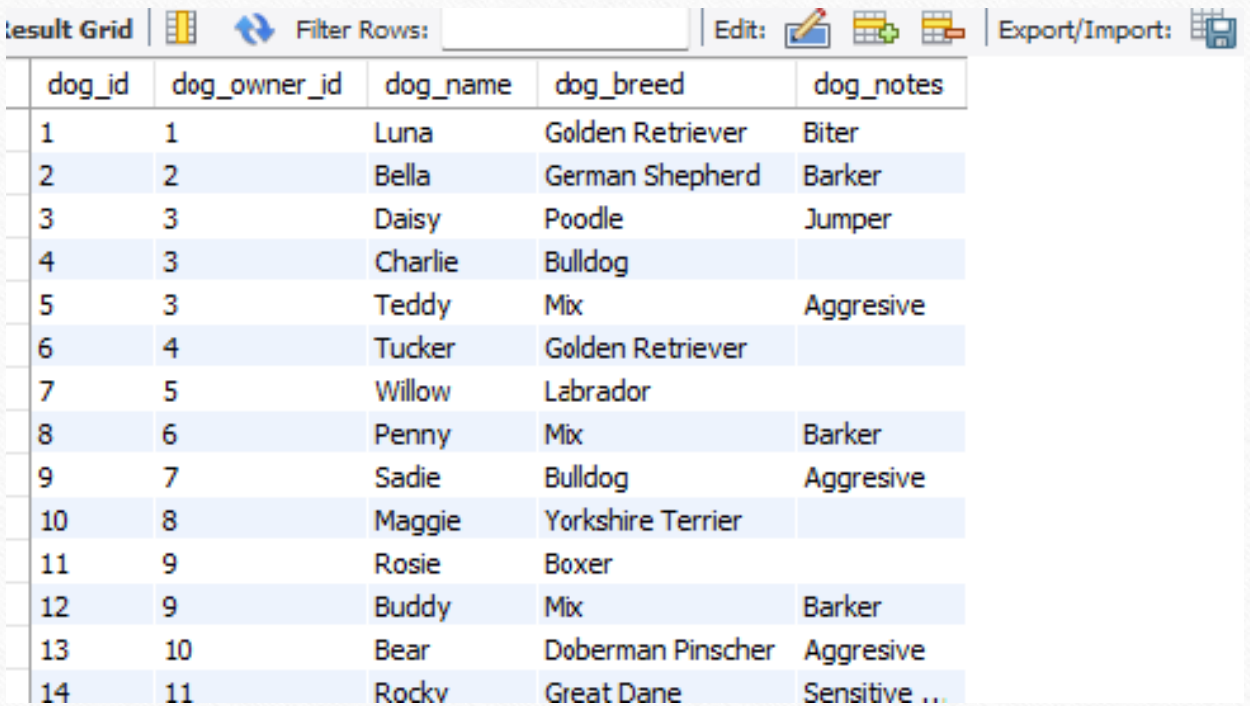
Assignment 2: Owner Table

Result Grid | Filter Rows: | Edit: | Export/Impor

owner_id	owner_name	owner_email	owner_phone_number
1	Stella Rodriquez	stella12@email.com	242-555-4589
2	Tara Mitchell	taram@email.com	706-555-4473
3	Desiree Brewer	dbrewer@email.com	893-555-9355
4	Lynn Curtis	lynn67@email.com	574-555-5624
5	Jenna Patterson	jennap@email.com	562-555-9481
6	Miguel Harper	miguel1829@email.com	412-555-9024
7	Melvin Malone	mm343@email.com	839-555-3923
8	Marcia Richardson	marciarichards23@email.com	262-555-6937
9	Tyler Webster	websterty32@email.com	824-555-6834
10	Emanuel Newton	emanuel576@email.com	887-555-4694
11	Penny Bryan	pennyb95@email.com	556-555-3018
12	Essie Stanley	essies90@email.com	618-555-2500
13	Jill Wise	jillwise@email.com	824-555-2318
14	Jason Wheeler	jasonw234@email.com	348-555-3995

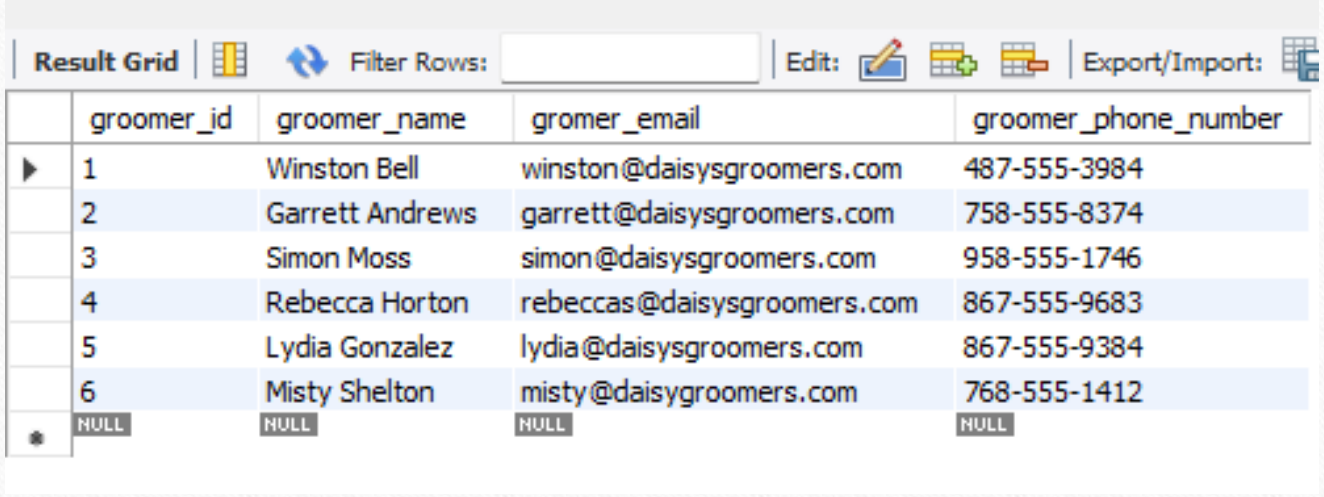
Import the necessary data from the CSV files(dog.csv, grromer.csv, owner.csv, appointment.csv).

Assignment 2:Dog Table



dog_id	dog_owner_id	dog_name	dog_breed	dog_notes
1	1	Luna	Golden Retriever	Biter
2	2	Bella	German Shepherd	Barker
3	3	Daisy	Poodle	Jumper
4	3	Charlie	Bulldog	
5	3	Teddy	Mix	Aggresive
6	4	Tucker	Golden Retriever	
7	5	Willow	Labrador	
8	6	Penny	Mix	Barker
9	7	Sadie	Bulldog	Aggresive
10	8	Maggie	Yorkshire Terrier	
11	9	Rosie	Boxer	
12	9	Buddy	Mix	Barker
13	10	Bear	Doberman Pinscher	Aggresive
14	11	Rocky	Great Dane	Sensitive ...

Assignment 2: Groomer Table



Result Grid | Filter Rows: | Edit: | Export/Import:

groomer_id	groomer_name	gromer_email	groomer_phone_number
1	Winston Bell	winston@daisysgroomers.com	487-555-3984
2	Garrett Andrews	garrett@daisysgroomers.com	758-555-8374
3	Simon Moss	simon@daisysgroomers.com	958-555-1746
4	Rebecca Horton	rebeccas@daisysgroomers.com	867-555-9683
5	Lydia Gonzalez	lydia@daisysgroomers.com	867-555-9384
6	Misty Shelton	misty@daisygroomers.com	768-555-1412
NULL	NULL	NULL	NULL

Assignment 2: Appointment Table

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

appointment_id	groomer_id	dog_id	appointment_date_time	appointment_bath	appointment_haircut	appointment_the_works	appointment_status
1	5	1	2023-02-01 12:00:00	0	1	0	pending
2	2	2	2023-02-01 13:00:00	1	0	0	pending
3	5	3	2023-02-01 14:00:00	1	0	0	pending
4	3	5	2023-02-01 15:00:00	1	1	1	pending
5	3	6	2023-02-01 16:00:00	1	0	0	pending
6	6	8	2023-02-03 12:00:00	1	1	0	pending
7	6	9	2023-02-03 16:00:00	0	1	1	pending
8	2	10	2023-02-04 15:00:00	0	0	1	pending
9	4	11	2023-02-05 10:00:00	0	0	1	pending
10	2	12	2023-02-05 12:00:00	1	0	0	pending
11	6	14	2023-02-05 18:00:00	1	0	0	pending
12	6	15	2023-02-06 15:00:00	1	0	1	pending
13	3	16	2023-02-06 16:00:00	1	1	0	pending
14	2	17	2023-02-07 13:00:00	0	0	1	pending

Assignment 3: Codes

```
#Assignment Three
#Daisy's asked if we could create a table that will show all the appointments, sorted by appointment date and time,
# where it would show the appointment date, the dog owner name and the dog name.

   CREATE VIEW allAppointments AS
    SELECT
        appointment.appointment_date_time,
        owner.owner_name,
        dod.dog_name
    FROM
        appointment
            INNER JOIN
        dog ON appointment.dog_id = dog.dog_id
            INNER JOIN
        owner ON dog.dog_owner_id = owner.owner_id
    ORDER BY appointment.appointment_date_time;
```

Create a table that shows all the appointments, sorted by appointment date and time, showing the appointment date, the dog owner's name, and the dog's name.

Assignment 3: Results

Result Grid | Filter Rows: | Export:

appointment_date_time	owner_name	dog_name
2023-02-01 12:00:00	Stella Rodriquez	Luna
2023-02-01 13:00:00	Tara Mitchell	Bella
2023-02-01 14:00:00	Desiree Brewer	Daisy
2023-02-01 15:00:00	Desiree Brewer	Teddy
2023-02-01 16:00:00	Lynn Curtis	Tucker
2023-02-03 12:00:00	Miguel Harper	Penny
2023-02-03 16:00:00	Melvin Malone	Sadie
2023-02-04 15:00:00	Marcia Richardson	Maggie
2023-02-05 10:00:00	Tyler Webster	Rosie
2023-02-05 12:00:00	Tyler Webster	Buddy
2023-02-05 18:00:00	Penny Bryan	Rocky
2023-02-06 15:00:00	Essie Stanley	Lucy
2023-02-06 16:00:00	Jill Wise	Ruby
2023-02-07 13:00:00	Jason Wheeler	Max

Assignment 4: Codes

```
#Assignment Four
#Daisy's liked the table that you made for the previous assignment.
#They now are asking if you could make one where it would still show each appointment, sorted by appointment date and time,
#but this time with the dog groomer's name and dog's name associated with each appointment.

CREATE VIEW allgroomerappointments AS
    SELECT
        groomer.groomer_name,
        dog.dog_name,
        appointment.appointment_date_time
    FROM
        dog,
        appointment,
        groomer
    WHERE
        dog.dog_id = appointment.groomer_id
            AND groomer.groomer_id = appointment.groomer_id
    ORDER BY appointment_date_time;

select * from allgroomerappointments;
```

Create a table that shows all the appointments, sorted by appointment date and time, showing the groomer's name and the dog's name

Assignment 4 Results

```
874 •  select * from allgroomerappointments;
```

Result Grid | Filter Rows: | Export:

groomer_name	dog_name	appointment_date_time
Lydia Gonzalez	Teddy	2023-02-01 12:00:00
Garrett Andrews	Bella	2023-02-01 13:00:00
Lydia Gonzalez	Teddy	2023-02-01 14:00:00
Simon Moss	Daisy	2023-02-01 15:00:00
Simon Moss	Daisy	2023-02-01 16:00:00
Misty Shelton	Tucker	2023-02-03 12:00:00
Misty Shelton	Tucker	2023-02-03 16:00:00
Garrett Andrews	Bella	2023-02-04 15:00:00
Rebecca Horton	Charlie	2023-02-05 10:00:00
Garrett Andrews	Bella	2023-02-05 12:00:00
Misty Shelton	Tucker	2023-02-05 18:00:00
Misty Shelton	Tucker	2023-02-06 15:00:00
Simon Moss	Daisy	2023-02-06 16:00:00

allgroomerappointments 10

Assignment 5: Codes

```
# Assignment Five
#The groomers saw the table that you've made and asked to make another table similar to that. But this time a list of appointments,
#sorted by the appointment date and time, but with the groomer name and owner name for each appointment.

CREATE VIEW groomerownerappointments AS
    SELECT
        groomer.groomer_name,
        owner.owner_name,
        appointment.appointment_date_time
    FROM
        owner,
        appointment,
        groomer,
        dog
    WHERE
        owner.owner_id = dog.dog_owner_id
            AND dog.dog_id = appointment.dog_id
            AND groomer.groomer_id = appointment.groomer_id
    ORDER BY appointment_date_time ASC;
```

Create a table a table that shows all the appointments, sorted by appointment date and time, showing the groomer's name, and the dog's owner's name.

Assignment 5 Results

```
896 •    select * from groomerownerappointments;
897
```

Result Grid | Filter Rows: | Export:

groomer_name	owner_name	appointment_date_time
Lydia Gonzalez	Stella Rodriquez	2023-02-01 12:00:00
Garrett Andrews	Tara Mitchell	2023-02-01 13:00:00
Lydia Gonzalez	Desiree Brewer	2023-02-01 14:00:00
Simon Moss	Desiree Brewer	2023-02-01 15:00:00
Simon Moss	Lynn Curtis	2023-02-01 16:00:00
Misty Shelton	Miguel Harper	2023-02-03 12:00:00
Misty Shelton	Melvin Malone	2023-02-03 16:00:00
Garrett Andrews	Marcia Richardson	2023-02-04 15:00:00
Rebecca Horton	Tyler Webster	2023-02-05 10:00:00
Garrett Andrews	Tyler Webster	2023-02-05 12:00:00

groomerownerappointments 12 ×

Assignment 6: Codes

```
#Assignment Six
#Daisy's asked if you could create a ranking of the most popular dog breeds that are in their database of dogs.

SELECT
    dog_breed, COUNT(dog_breed) as breed_count
FROM
    dog
GROUP BY dog_breed
ORDER BY breed_count DESC;
```

Create a ranking of the most popular dog breeds that are in the database of dogs.

Assignment 6: Results

Result Grid | Filter Rows:

dog_breed	breed_count
Mix	9
Golden Retriever	4
Dachshund	4
Labrador	3
Pointer	3
Cocker Spaniels	3
Beagle	3
Poodle	2
Bulldog	2
Rottweiler	2

Assignment 7: Codes

```
#Assignment Seven
#This time, they asked if you could create a ranking of dog breeds in the appointment table that are most frequently occurring.

SELECT
    dog_breed, COUNT(dog_breed) AS breed_count
FROM
    dog
        INNER JOIN
    appointment ON dog.dog_id = appointment.dog_id
GROUP BY dog_breed
ORDER BY breed_count DESC;
```

Create a ranking of dog breeds in the appointment table that are most frequent.

Assignment 7: Results

Result Grid | Filter Rows:

dog_breed	breed_count
Mix	13
Golden Retriever	8
Dachshund	7
Labrador	6
Beagle	6
Pointer	5
Rottweiler	4
Cocker Spaniels	4
German Shepherd	3
Poodle	3

Assignment 8: Codes

```sql
#Assignment Eight
#The manager of Daisy asked if we could create a ranking of groomers that have the most hair cut appointments.

select * from groomer;

SELECT
    groomer_name,
    COUNT(appointment_haircut) AS haircut_appointment
FROM
    groomer
        INNER JOIN
    appointment ON groomer.groomer_id = appointment.groomer_id
WHERE
    appointment_haircut = 1
GROUP BY groomer_name
ORDER BY haircut_appointment DESC;
```

Create a ranking of groomers that have the most haircut appointments

Assignment 8: Results

Result Grid | Filter Rows:

groomer_name	haircut_appointment
Simon Moss	7
Misty Shelton	7
Winston Bell	5
Lydia Gonzalez	4
Garrett Andrews	4
Rebecca Horton	3

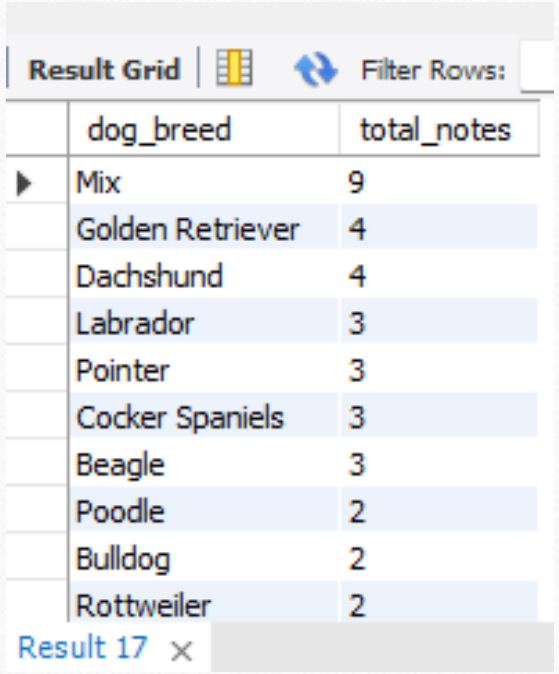
Assignment 9: Codes

```
#Assignment Nine
#The groomers asked if we could now create a ranking of the dog breeds that have the most dog notes on them.

SELECT
    dog_breed, COUNT(dog_notes) AS total_notes
FROM
    dog
GROUP BY dog_breed
ORDER BY total_notes DESC;
```

Create a ranking of the dog breeds that have the most dog notes on them

Assignment 9: Results



Result Grid | Filter Rows:

dog_breed	total_notes
Mix	9
Golden Retriever	4
Dachshund	4
Labrador	3
Pointer	3
Cocker Spaniels	3
Beagle	3
Poodle	2
Bulldog	2
Rottweiler	2

Result 17

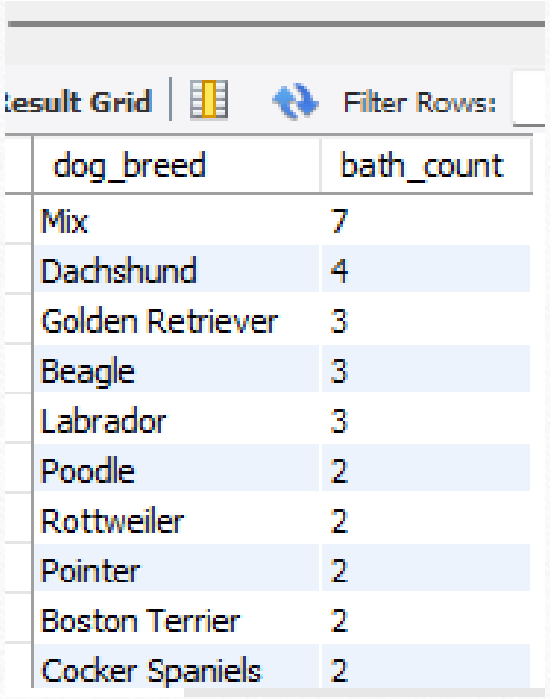
Assignment 10: Codes

```
#Assignment Ten
#This time they asked if we could create a ranking for the dog breeds that get the most dog baths.

SELECT
    dog_breed, COUNT(appointment_bath) AS bath_count
FROM
    dog
        INNER JOIN
    appointment ON dog.dog_id = appointment.dog_id
WHERE
    appointment_bath = 1
GROUP BY dog_breed
ORDER BY bath_count DESC;
```

Create a ranking for the dog breeds that get the most dog baths.

Assignment 10: Results



dog_breed	bath_count
Mix	7
Dachshund	4
Golden Retriever	3
Beagle	3
Labrador	3
Poodle	2
Rottweiler	2
Pointer	2
Boston Terrier	2
Cocker Spaniels	2

Conclusion

- Through this assignment, I:
- Successfully designed and implemented a comprehensive database for Daisy's Dog Groomers.
- Efficiently managed data import from CSV files.
- Created detailed tables, views, and rankings to meet specific client requirements.

Benefits of the Database

- Streamlined business operations and improved data management.
- Enhanced client and appointment tracking.
- Provided valuable insights through data analysis and rankings.