

Topic name: **tiny tails...**

Because each tail has a tale.

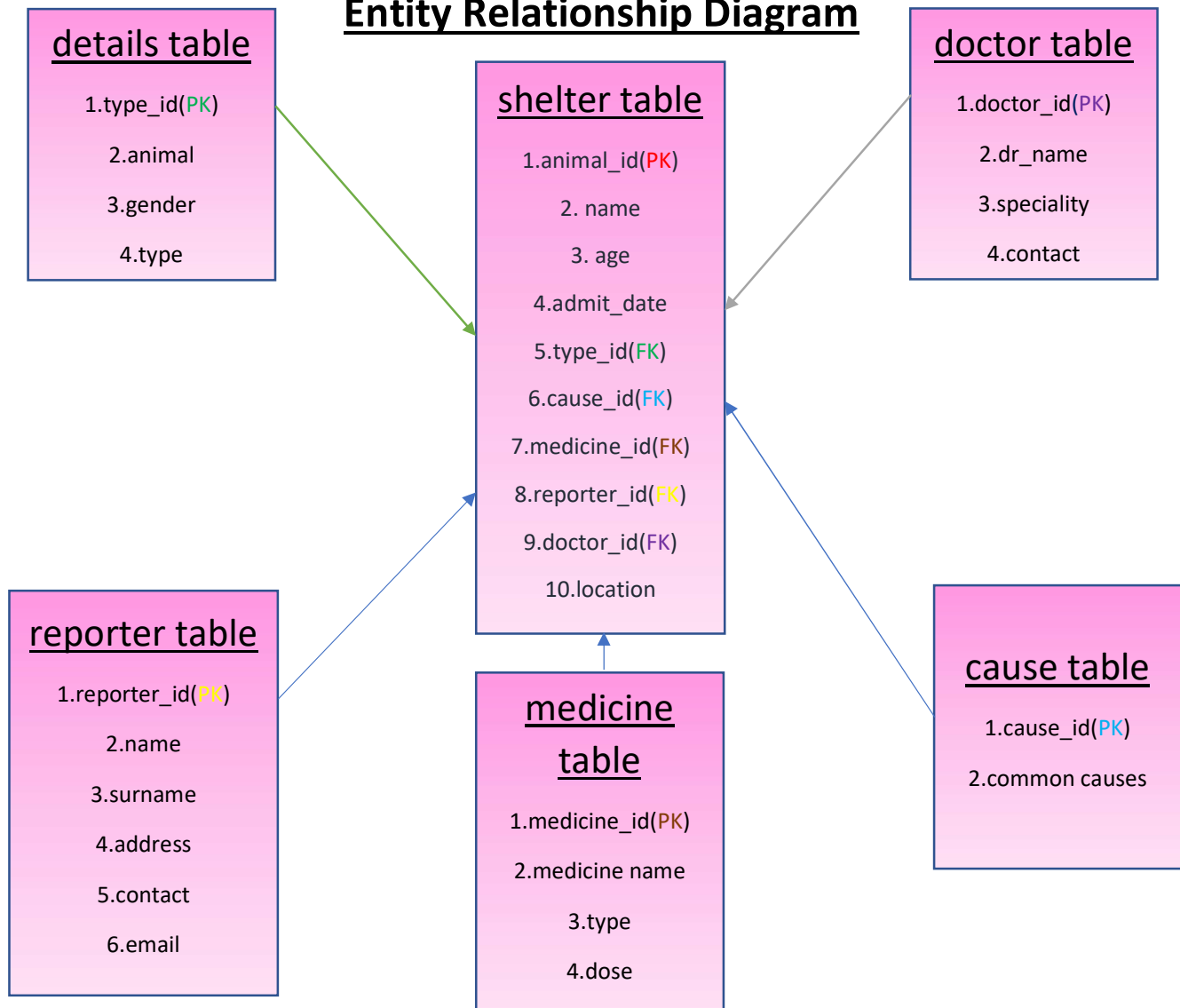
Description: tiny tail is a shelter home based in a small town in badlapur, we work to rescue and provide shelter to injured, abandoned and lost animals.

We have a dedicated team of doctors and staff that work their best to save each and every possible soul.

Our dedicated team tries not only to help save lives but also try to help get them a permanent home.

Anyone who wishes to spend his time with these tiny souls are always welcome.

Entity Relationship Diagram



Our database tables;

1.Shelter table;

Shelter table consists of all the entries of animals who were reported to the centre. It tells us about animal, his age, date he got admitted, cause of accident, medicine and doctor assigned to that case and the person who reported that case.

```
MariaDB [test2]> desc shelter;
```

| Field | Type | Null | Key | Default | Extra |
|-------------|-------------|------|-----|---------|-------|
| animal_id | int(5) | NO | PRI | NULL | |
| name | varchar(50) | YES | | NULL | |
| age | int(2) | YES | | NULL | |
| admit_date | datetime | YES | | NULL | |
| type_id | int(5) | YES | MUL | NULL | |
| cause_id | int(5) | YES | MUL | NULL | |
| medicine_id | int(10) | YES | MUL | NULL | |
| reporter_id | int(5) | YES | MUL | NULL | |
| doctor_id | int(5) | YES | MUL | NULL | |
| location | varchar(50) | YES | | NULL | |

10 rows in set (0.006 sec)

And here are the entries....

```
MariaDB [test2]> select * from shelter;
```

| animal_id | name | age | admit_date | type_id | cause_id | medicine_id | reporter_id | doctor_id | location |
|-----------|--------|-----|---------------------|---------|----------|-------------|-------------|-----------|----------------------------|
| 1 | chance | 3 | 2021-12-12 22:45:55 | 100 | 200 | 300 | 400 | 500 | thane_bhivandi_highway |
| 2 | Angel | 5 | 2022-03-31 12:30:55 | 122 | 212 | 303 | 410 | 505 | ambarnath_badlapur_highway |
| 3 | Chutki | 1 | 2022-05-12 18:40:00 | 122 | 206 | 302 | 412 | 507 | shiv_mandir_ambarnath |
| 4 | Hero | 8 | 2022-04-01 10:10:00 | 122 | 205 | 301 | 415 | 502 | lal_chowk_ambarnath |
| 5 | Roby | 5 | 2022-04-12 18:20:48 | 120 | 216 | 301 | 414 | 500 | gandhi_road_mulund |
| 6 | Betiji | 4 | 2022-04-12 14:20:50 | 105 | 206 | 300 | 413 | 505 | Kailash_colony_ambarnath |
| 7 | Sweeto | 5 | 2022-03-22 10:20:50 | 123 | 216 | 304 | 408 | 504 | Kailash_nagar_thane |
| 8 | Raja | 12 | 2022-01-02 05:20:50 | 121 | 210 | 302 | 401 | 507 | Navre_nagar_thane |
| 9 | Mondy | 7 | 2021-04-12 18:30:48 | 122 | 211 | 307 | 407 | 502 | anand_nagar_badlapur |
| 10 | Buddy | 2 | 2022-01-12 19:22:48 | 109 | 207 | 303 | 402 | 503 | Khadi_badlapur |
| 11 | Glory | 4 | 2022-05-10 22:22:48 | 108 | 204 | 301 | 403 | 501 | Khadi_nagar_ulhasnagar |
| 12 | Kismat | 1 | 2021-04-18 20:22:08 | 101 | 208 | 300 | 408 | 505 | shivvalya_ot_bhivandi |
| 13 | Dhara | 3 | 2022-02-18 08:10:28 | 103 | 203 | 305 | 404 | 507 | dokali_thane |
| 14 | Keeper | 3 | 2022-03-13 18:22:48 | 106 | 202 | 302 | 405 | 500 | bhاتيya_ulhasnagar |
| 15 | Ginger | 5 | 2022-02-12 17:22:48 | 107 | 203 | 300 | 406 | 505 | netaji_ulhasnagar |
| 16 | Kalu | 1 | 2022-03-12 18:22:48 | 108 | 204 | 301 | 407 | 507 | ambarnath_station_road |
| 17 | Patch | 2 | 2022-01-12 10:30:00 | 109 | 205 | 305 | 408 | 502 | bhاتيya_badlapur |
| 18 | Pearl | 9 | 2022-01-18 12:30:00 | 110 | 206 | 306 | 409 | 507 | dudhnaka_ulhasnagar |
| 19 | Baadam | 3 | 2022-02-19 01:30:00 | 111 | 207 | 302 | 410 | 501 | nehru_nagar_kalyan |
| 20 | Angur | 2 | 2022-01-18 16:02:48 | 115 | 208 | 301 | 411 | 500 | badlapur_station_road |
| 21 | Chotu | 7 | 0000-00-00 00:00:00 | 116 | 210 | 304 | 415 | 505 | vithal_road_ulhasnagar |
| 22 | Rocky | 5 | 2021-01-18 12:20:48 | 121 | 215 | 307 | 413 | 500 | ambarnath_station_road |
| 23 | Bony | 9 | 2021-02-22 16:20:48 | 119 | 213 | 300 | 414 | 506 | badlapur_station_road |
| 24 | Tittu | 1 | 2019-12-22 16:20:48 | 118 | 214 | 302 | 404 | 506 | ambarnath_station_road |
| 25 | Munna | 8 | 2022-05-11 22:20:55 | 117 | 206 | 305 | 414 | 500 | bhaji_market_kalyan |

25 rows in set (0.001 sec)

2.Details table;

Details table is linked to shelter table, it tells us about which animal got admitted, gender and type. This helps us to identify the process of medicine to be followed.

```
MariaDB [test2]> desc details;
```

| Field | Type | Null | Key | Default | Extra |
|---------|-------------|------|-----|---------|-------|
| type_id | int(5) | NO | PRI | NULL | |
| animal | varchar(30) | YES | | NULL | |
| gender | varchar(20) | YES | | NULL | |
| type | varchar(30) | YES | | NULL | |

4 rows in set (0.005 sec)

And here are the entries...

```
MariaDB [test2]> select * from details;
```

| type_id | animal | gender | type |
|---------|--------|-------------|-----------|
| 100 | dog | male | stray |
| 101 | dog | male | indoor |
| 102 | dog | male | abandoned |
| 103 | dog | male | lost |
| 104 | dog | female | stray |
| 105 | dog | female | indoor |
| 106 | dog | female | abandoned |
| 107 | dog | female | lost |
| 108 | dog | preg_female | stray |
| 109 | dog | preg_female | indoor |
| 110 | dog | preg_female | abandoned |
| 111 | dog | preg_female | lost |
| 112 | cat | male | stray |
| 113 | cat | male | indoor |
| 114 | cat | male | abandoned |
| 115 | cat | male | lost |
| 116 | cat | female | stray |
| 117 | cat | female | indoor |
| 118 | cat | female | abandoned |
| 119 | cat | female | lost |
| 120 | cat | preg_female | stray |
| 121 | cat | preg_female | indoor |
| 122 | cat | preg_female | abandoned |
| 123 | cat | preg_female | lost |

24 rows in set (0.002 sec)

3.Doctor table;

Doctor table tells us about the doctor assigned to that case. This helps to maintain a record of which doctor is available and when, and who's handling which case.

```
MariaDB [test2]> desc doctor;
```

| Field | Type | Null | Key | Default | Extra |
|------------|-------------|------|-----|---------|-------|
| doctor_id | int(5) | NO | PRI | NULL | |
| dr_name | varchar(30) | YES | | NULL | |
| speciality | varchar(30) | YES | | NULL | |
| contact | bigint(12) | YES | | NULL | |

4 rows in set (0.005 sec)

```
MariaDB [test2]> select * from doctor;
```

| doctor_id | dr_name | speciality | contact |
|-----------|-------------------|-------------------|------------|
| 500 | Gauri Dudhmandhe | bone&joints | 8899986653 |
| 501 | Sunny Shinde | bone&joints | 8899789632 |
| 502 | Avani Sathe | skin&aqua_therapy | 9866538845 |
| 503 | Tanvi Ghan | aqua_therapy | 8855882660 |
| 504 | Shiva Mandani | skin_specialist | 8844693258 |
| 505 | Raj Chotwani | Vet | 8855882660 |
| 506 | Aniket Helgaonkar | Vet | 9619664065 |
| 507 | Mayur Ahuja | Vet | 7387136138 |

8 rows in set (0.002 sec)

4.Medicine table;

Medicine table tells us about the medicines that are been allotted to the case, if in case there is a change in procedure or if we want to shift animal to another centre this helps us to trace back medicines assigned.

```
MariaDB [test2]> desc medicine;
```

| Field | Type | Null | Key | Default | Extra |
|-------------|--------------|------|-----|---------|-------|
| medicine_id | int(10) | NO | PRI | NULL | |
| med_name | varchar(100) | YES | | NULL | |
| type | varchar(50) | YES | | NULL | |
| dose | varchar(30) | YES | | NULL | |

4 rows in set (0.005 sec)

```
MariaDB [test2]> select * from medicine;
```

| medicine_id | med_name | type | dose |
|-------------|--------------|--|-------------------------|
| 300 | Meloxicam | oral tablet for cats | every 24hours |
| 301 | Deracoxib | anti-inflammatory drug, dexamethasone | based on pet-weight |
| 302 | Carprofen | arthritis management, chewable | once in 3 days |
| 303 | Fenbendazole | antiparasite drug | based on age and weight |
| 304 | Maropitant | antimec in dogs/cats | as per the wound |
| 305 | Cefovecin | Antimicrobial | as per weight |
| 306 | Selamectin | Antiparastic,fleas,roundworms,earmites | can be frequent |
| 307 | Pimobenden | Congestive heart failure | every 8 hour |

8 rows in set (0.001 sec)

5.Reporter table;

Reporter table tells us about the person who reported the case to us, this helps us to trace back cases and to assist in locating back the animal.

```
MariaDB [test2]> desc reporter;
```

| Field | Type | Null | Key | Default | Extra |
|-------------|--------------|------|-----|---------|-------|
| reporter_id | int(5) | NO | PRI | NULL | |
| name | varchar(50) | YES | | NULL | |
| surname | varchar(50) | YES | | NULL | |
| address | varchar(100) | YES | | NULL | |
| contact | bigint(12) | YES | | NULL | |
| email | varchar(100) | YES | | NULL | |

```
6 rows in set (0.005 sec)
```

```
MariaDB [test2]> select * from reporter;
```

| reporter_id | name | surname | address | contact | email |
|-------------|-----------|---------|------------|------------|--------------------------|
| 400 | Anuya | Desai | Mumbai | 9321810013 | anuya.desai@gmail.com |
| 401 | Akanksha | Vyas | Dadar | 8855882440 | akanksha.vyas@gmail.com |
| 402 | Arushi | Shukla | Ambernath | 7744558896 | arushi.shukla@gmail.com |
| 403 | Bani | Desai | Ulhasnagar | 8877559966 | bani.desai@gmail.com |
| 404 | Shreya | Mulik | Matuga | 8866882442 | shreya.mulik@gmail.com |
| 405 | Hetvi | Shah | Ambernath | 7744552266 | hetvi.shah@gmail.com |
| 406 | Jeet | Ahuja | Ulhasnagar | 8844669966 | jeet.ahuja@gmail.com |
| 407 | Nidhi | Bhatt | Ghatkopar | 8855112255 | nidhi.bhat@gmail.com |
| 408 | Pravin | Shukla | Ambernath | 7744551169 | pravin.shukla@gmail.com |
| 409 | Raj | Agarwal | Ulhasnagar | 8877759967 | raj.agarwal@gmail.com |
| 410 | Sakshi | Mehta | Matuga | 8866896442 | sakshi.mehta@gmail.com |
| 411 | Hemma | Shah | Ulhasnagar | 7744551236 | hemma.shah@gmail.com |
| 412 | Jeet | Singh | Ulhasnagar | 8844664569 | jeet.singh@gmail.com |
| 413 | Shubanghi | Bhatt | Badlapur | 8855112587 | shubanghi.bhat@gmail.com |
| 414 | Vikram | Jha | Ambernath | 7744551478 | vikram.jha@gmail.com |
| 415 | Nutan | Desai | Ulhasnagar | 8877751212 | nutan.desai@gmail.com |

6.Cause table;

Animals that come at our centre usually have common cause of accident and have common animal reporters reporting about the case.

```
MariaDB [test2]> desc cause;
```

| Field | Type | Null | Key | Default | Extra |
|---------------|-------------|------|-----|---------|-------|
| cause_id | int(5) | NO | PRI | NULL | |
| common_causes | varchar(50) | YES | | NULL | |

```
2 rows in set (0.005 sec)
```

```
MariaDB [test2]> select * from cause;
```

| cause_id | common_causes |
|----------|----------------------------|
| 200 | Lice |
| 201 | Hit and run |
| 202 | Bitten by dog |
| 203 | Hit by someone |
| 204 | Abandoned and injured |
| 205 | Maggot wound on head |
| 206 | Maggot wound on neck |
| 207 | Maggot wound on back |
| 208 | Foreign body ingestion |
| 209 | Poisoning |
| 210 | Cat bite Abscesses |
| 211 | Eye Trauma |
| 212 | Cruciate Ligament Ruptures |
| 213 | Lameness/Back trouble |
| 214 | Torn or Broken nail |
| 215 | Heat Stroke or Dehydration |
| 216 | Rabbies |

```
17 rows in set (0.002 sec)
```

Let us go through some of subqueries;

1. To find all the animal's name, admit date and reporter who have maggot wound.

`select name,admit_date,location from shelter where cause_id in(select cause_id from cause where common_causes like 'magg%');`

```
MariaDB [test2]> select name,admit_date,location from shelter where cause_id in( select cause_id from cause where common_causes like 'magg%');
+-----+-----+-----+
| name | admit_date | location |
+-----+-----+-----+
| Chutki | 2022-05-12 18:40:00 | shiv_mandir_ambarnath |
| Hero | 2022-04-01 10:10:00 | lal_chowk_ambarnath |
| Betiji | 2022-04-12 14:20:50 | Kailash_colony_ambarnath |
| Buddy | 2022-01-12 19:22:48 | Khadi_badlapur |
| Patch | 2022-01-12 10:30:00 | bhatiya_badlapur |
| Pearl | 2022-01-18 12:30:00 | dudhnaka_ulhasnagar |
| Baadam | 2022-02-19 01:30:00 | nehru_nagar_kalyan |
| Munna | 2022-05-11 22:20:55 | bhaji_market_kalyan |
+-----+-----+-----+
8 rows in set (0.001 sec)
```

2. To find name, age, admit date of animals who have been assigned under 'Avani Sathe'.

`select name from shelter where doctor_id in(select doctor_id from doctor where dr_name='Avani Sathe');`

```
MariaDB [test2]> select name from shelter where doctor_id in(select doctor_id from doctor where dr_name='Avani Sathe');
+-----+
| name |
+-----+
| Hero |
| Mondy |
| Patch |
+-----+
3 rows in set (0.003 sec)
```

3. To find all the cases whose case reporter are from the city 'ulhasnagar'.

`select name,age,location,reporter_id from shelter where reporter_id in(select reporter_id from reporter where address='ulhasnagar');`

```
MariaDB [test2]> select name,age,location,reporter_id from shelter where reporter_id in( select reporter_id from reporter where address='ulhasnagar');
+-----+-----+-----+-----+
| name | age | location | reporter_id |
+-----+-----+-----+-----+
| Chutki | 1 | shiv_mandir_ambarnath | 412 |
| Hero | 8 | lal_chowk_ambarnath | 415 |
| Glory | 4 | Khadi_nagar_ulhasnagar | 403 |
| Ginger | 5 | netaji_ulhasnagar | 406 |
| Pearl | 9 | dudhnaka_ulhasnagar | 409 |
| Angur | 2 | badlapur_station_road | 411 |
| Chotu | 7 | vithal_road_ulhasnagar | 415 |
+-----+-----+-----+-----+
7 rows in set (0.001 sec)
```

4. To find name, age of animal whose age is greater than 3, and doctor assigned is, 'Raj Chotwani'.

```
select name,age from shelter where age>5 and doctor_id =(select  
doctor_id from doctor where dr_name='Raj Chotwani');
```

```
MariaDB [test2]> select name,age from shelter where age>5 and doctor_id =(select doctor_id from doctor where dr_name='Raj Chotwani');  
+-----+-----+  
| name | age |  
+-----+-----+  
| Chotu | 7 |  
+-----+-----+  
1 row in set (0.003 sec)
```

Let us go through some of joins;

1. To find which animal is assigned to which doctor. (Left Join)

```
select shelter.name,doctor.dr_name from shelter left join doctor on  
shelter.doctor_id = doctor.doctor_id order by dr_name;
```

```
MariaDB [test2]> select shelter.name,doctor.dr_name from shelter left join doctor on shelter.doctor_id = doctor.doctor_id order by dr_name;  
+-----+-----+  
| name | dr_name |  
+-----+-----+  
| Bony | Aniket Helgaonkar |  
| Tittu | Aniket Helgaonkar |  
| Mondy | Avani Sathe |  
| Patch | Avani Sathe |  
| Hero | Avani Sathe |  
| Rocky | Gauri Dudhmandhe |  
| chance | Gauri Dudhmandhe |  
| Roby | Gauri Dudhmandhe |  
| Angur | Gauri Dudhmandhe |  
| Keeper | Gauri Dudhmandhe |  
| Munna | Gauri Dudhmandhe |  
| Raja | Mayur Ahuja |  
| Kalu | Mayur Ahuja |  
| Dhara | Mayur Ahuja |  
| Chutki | Mayur Ahuja |  
| Pearl | Mayur Ahuja |  
| Ginger | Raj Chotwani |  
| Kismat | Raj Chotwani |  
| Angel | Raj Chotwani |  
| Betiji | Raj Chotwani |  
| Chotu | Raj Chotwani |  
| Sweeto | Shiva Mandani |  
| Baadam | Sunny Shinde |  
| Glory | Sunny Shinde |  
| Buddy | Tanvi Ghan |  
+-----+-----+  
25 rows in set (0.001 sec)
```


2. To find out which animal has been assigned which medicine. (Inner join).

```
select shelter.name,medicine.med_name from shelter inner join  
medicine on shelter.medicine_id = medicine.medicine_id order by med  
_name;
```

```
MariaDB [test2]> select shelter.name,medicine.med_name from shelter inner join medicine on shelter.medicine_id = medicine.medicine_id order by med  
_name;  
+-----+-----+  
| name | med_name |  
+-----+-----+  
| Chutki | Carprofen |  
| Raja | Carprofen |  
| Keeper | Carprofen |  
| Baadam | Carprofen |  
| Tittu | Carprofen |  
| Dhara | Cefovecin |  
| Patch | Cefovecin |  
| Munna | Cefovecin |  
| Hero | Deracoxib |  
| Roby | Deracoxib |  
| Glory | Deracoxib |  
| Kalu | Deracoxib |  
| Angur | Deracoxib |  
| Angel | Fenbendazole |  
| Buddy | Fenbendazole |  
| Sweeto | Maropitant |  
| Chotu | Maropitant |  
| chance | Meloxicam |  
| Betiji | Meloxicam |  
| Kismat | Meloxicam |  
| Ginger | Meloxicam |  
| Bony | Meloxicam |  
| Mondy | Pimobenden |  
| Rocky | Pimobenden |  
| Pearl | Selamectin |  
+-----+-----+  
25 rows in set (0.001 sec)
```

3. To find out name, category, type and gender of animal. (Right join)

```
select shelter.name, details.animal, details.gender, details.type from  
details right join shelter on details.type_id = shelter.type_id;
```

```
MariaDB [test2]> select shelter.name, details.animal, details.gender, details.type from details right join shelter on details.type_id = shelter.t  
ype_id;  
+-----+-----+-----+-----+  
| name | animal | gender | type |  
+-----+-----+-----+-----+  
| chance | dog | male | stray |  
| Angel | cat | preg_female | abandoned |  
| Chutki | cat | preg_female | abandoned |  
| Hero | cat | preg_female | abandoned |  
| Roby | cat | preg_female | stray |  
| Betiji | dog | female | indoor |  
| Sweeto | cat | preg_female | lost |  
| Raja | cat | preg_female | indoor |  
| Mondy | cat | preg_female | abandoned |  
| Buddy | dog | preg_female | indoor |  
| Glory | dog | preg_female | stray |  
| Kismat | dog | male | indoor |  
| Dhara | dog | male | lost |  
| Keeper | dog | female | abandoned |  
| Ginger | dog | female | lost |  
| Kalu | dog | preg_female | stray |  
| Patch | dog | preg_female | indoor |  
| Pearl | dog | preg_female | abandoned |  
| Baadam | dog | preg_female | lost |  
| Angur | cat | male | lost |  
| Chotu | cat | female | stray |  
| Rocky | cat | preg_female | indoor |  
| Bony | cat | female | lost |  
| Tittu | cat | female | abandoned |  
| Munna | cat | female | indoor |  
+-----+-----+-----+-----+  
25 rows in set (0.002 sec)
```

Let us go through some of views;

1. This view show name and age of animals who are younger than 3 year old.

create view young as select name,age from shelter where age<3;

```
MariaDB [test2]> create view young as select name,age from shelter where age<3;
Query OK, 0 rows affected (0.013 sec)

MariaDB [test2]> select * from young;
+-----+-----+
| name  | age  |
+-----+-----+
| Chutki| 1    |
| Buddy | 2    |
| Kismat| 1    |
| Kalu  | 1    |
| Patch | 2    |
| Angur | 2    |
| Tittu | 1    |
+-----+-----+
7 rows in set (0.001 sec)
```

2. This view shows animal's name, animal's location and reporter's location respectively.

```
create view address as select shelter.name as animal_name
,shelter.location as animals_location ,reporter.address as
reporters_address from shelter,reporter where
shelter.reporter_id=reporter.reporter_id;
```

```
MariaDB [test2]> create view address as select shelter.name as animal_name ,shelter.location as animals_location ,reporter.address as reporters_address from shelter,reporter where shelter.reporter_id=reporter.reporter_id;
Query OK, 0 rows affected (0.005 sec)
```

```
MariaDB [test2]> select * from address;
```

| animal_name | animals_location | reporters_address |
|-------------|----------------------------|-------------------|
| chance | thane bhivandi highway | Mumbai |
| Angel | ambernath badlapur highway | Matuga |
| Chutki | shiv_mandir_ambarnath | Ulhasnagar |
| Hero | lal_chowk_ambarnath | Ulhasnagar |
| Roby | gandhi_road_mulund | Ambernath |
| Betiji | Kailash_colony_ambarnath | Badlapur |
| Sweeto | Kailash_nagar_thane | Ambernath |
| Raja | Navre_nagar_thane | Dadar |
| Mondy | anand_nagar_badlapur | Ghatkopar |
| Buddy | Khadi_badlapur | Ambernath |
| Glory | Khadi_nagar_ulhasnagar | Ulhasnagar |
| Kismat | shivalya_ot_bhivandi | Ambernath |
| Dhara | dokali_thane | Matuga |
| Keeper | bhatiya_ulhasnagar | Ambernath |
| Ginger | netaji_ulhasnagar | Ulhasnagar |
| Kalu | ambernath_station_road | Ghatkopar |
| Patch | bhatiya_badlapur | Ambernath |
| Pearl | dudhnaka_ulhasnagar | Ulhasnagar |
| Baadam | nehru_nagar_kalyan | Matuga |
| Angur | badlapur_station_road | Ulhasnagar |
| Chotu | vithal_road_ulhasnagar | Ulhasnagar |
| Rocky | ambernath_station_road | Badlapur |
| Bony | badlapur_station_road | Ambernath |
| Tittu | ambernath_station_road | Matuga |
| Munna | bhaji_market_kalyan | Ambernath |

```
25 rows in set (0.001 sec)
```