CREATE DATABASE:

Created a database named pet_adoption and to make it active we write use database_name;

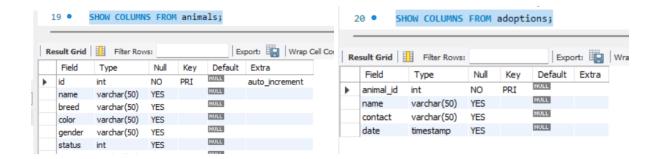
```
CREATE DATABASE pet_adoption;
USE pet_adoption;
```

CREATE TABLES

Created two tables animals and adoptions with corresponding attributes and primary keys. We made primary key in animals table to increment automatically.

SHOW TABLES & COLUMNS





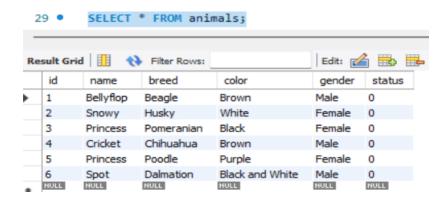
INSERT

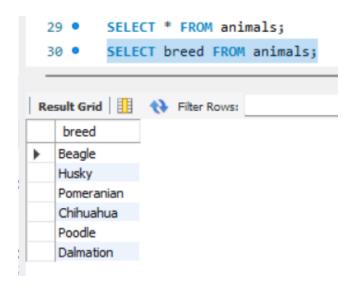
```
22 • INSERT INTO animals (name, breed, color, gender, status) VALUES ('Bellyflop', 'Beagle', 'Brown', 'Male', 0);
23 • INSERT INTO animals (name, breed, color, gender, status) VALUES ('Snowy', 'Husky', 'White', 'Female', 0);
24 • INSERT INTO animals (name, breed, color, gender, status) VALUES ('Princess', 'Pomeranian', 'Black', 'Female', 0);
25 • INSERT INTO animals (name, breed, color, gender, status) VALUES ('Cricket', 'Chihuahua', 'Brown', 'Male', 0);
26 • INSERT INTO animals (name, breed, color, gender, status) VALUES ('Princess', 'Poodle', 'Purple', 'Female', 0);
27 • INSERT INTO animals (name, breed, color, gender, status) VALUES ('Spot', 'Dalmation', 'Black and White', 'Male', 0);
```

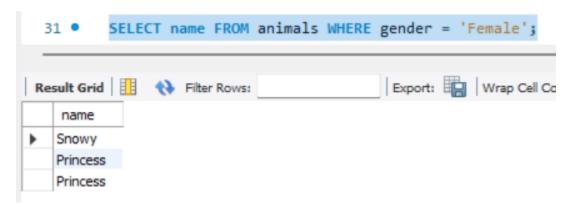
SELECT

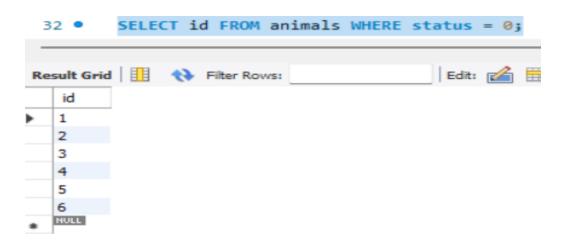
Get the full list of all properties of all dogs Get the breeds of all dogs.

Get the names of only female dogs by including a WHERE clause. Get the IDs of dogs up for adoption.









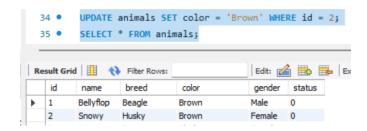
UPDATE & DELETE FROM

BEFORE UPDATE AND DELETE:

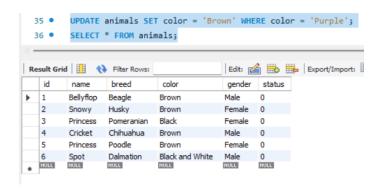


AFTER UPDATE AND DELETE:

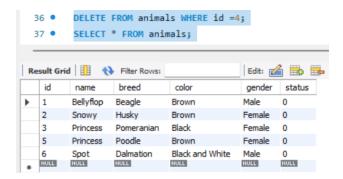
Updated the color of animal with id = 2 from white to brown



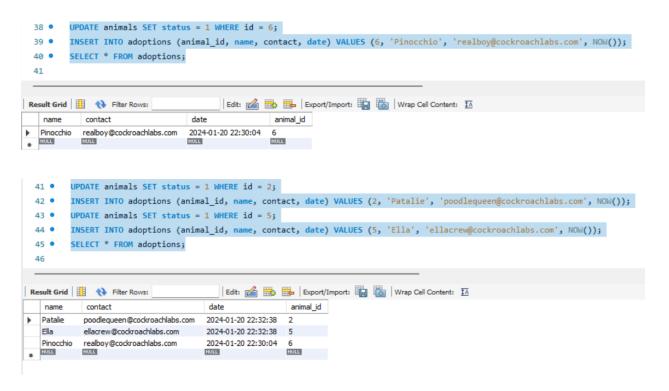
Updated the color from purple to brown



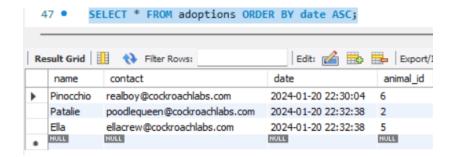
Deleted animal with id=4



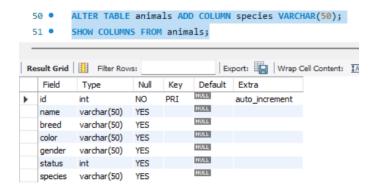
UPDATE & INSERT



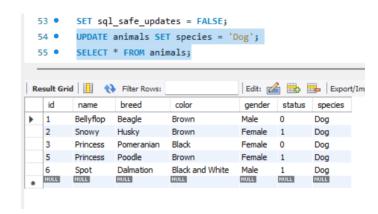
ORDER BY



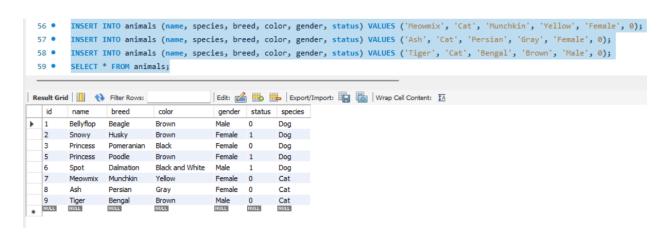
ALTER TABLE



SET & UPDATE



Add All Cats to the Database

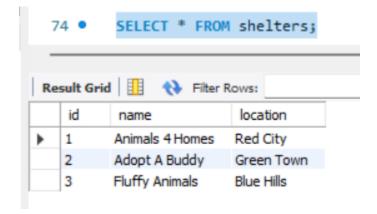


Creating a Table for Shelters

```
61 • CREATE TABLE shelters (
62 id INTEGER,
63 name VARCHAR(50),
64 location VARCHAR(50)
65 );
```

<u>Inserting data into shelters table</u>

```
67 • INSERT INTO shelters (id, name, location) VALUES (1, 'Animals 4 Homes', 'Red City');
68 • INSERT INTO shelters (id, name, location) VALUES (2, 'Adopt A Buddy', 'Green Town');
69 • INSERT INTO shelters (id, name, location) VALUES (3, 'Fluffy Animals', 'Blue Hills');
```



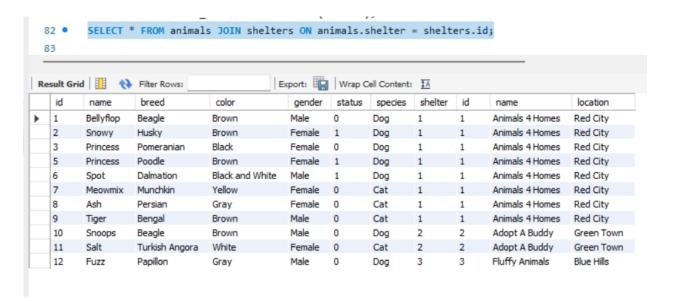
Alter and Update animals table

```
71 • ALTER TABLE animals ADD COLUMN shelter INTEGER;
72 • UPDATE animals SET shelter = 1;
```

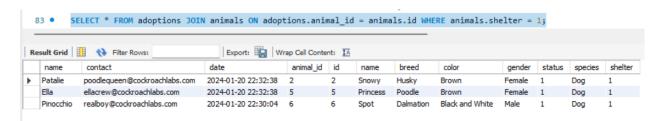
Adding more animals

```
INSERT INTO animals (name, shelter, species, breed, color, gender, status) VALUES ('Snoops', 2, 'Dog', 'Beagle', 'Brown', 'Male', 0);
         INSERT INTO animals (name, shelter, species, breed, color, gender, status) VALUES ('Salt', 2, 'Cat', 'Turkish Angora', 'White', 'Female', 0);
 77 •
         INSERT INTO animals (name, shelter, species, breed, color, gender, status) VALUES ('Fuzz', 3, 'Dog', 'Papillon', 'Gray', 'Male', 0);
 79 •
         SELECT * FROM animals;
| Edit: 🚄 📆 🖶 | Export/Import: 🏣 👸 | Wrap Cell Content: 🔣
        name
                  breed
                               color
                                              gender status species shelter
         Bellyflon
                  Beagle
                               Brown
                                             Male
                                                            Dog
  2
        Snowy
                 Husky
                               Brown
                                             Female 1
                                                           Dog
        Princess
                  Pomeranian
                               Black
                                             Female
                                                           Dog
        Princess
                 Poodle
                               Brown
                                             Female
                                                           Dog
         Spot
                               Black and White
                                                            Dog
                 Munchkin
                               Yellow
                  Persian
                               Gray
                                             Female
                                                            Cat
        Tiger
                 Bengal
                               Brown
                                             Male
                                                           Cat
        Snoops
                  Beagle
                               Brown
                                             Male
                                                            Dog
                 Turkish Angora
                               White
                                             Female
```

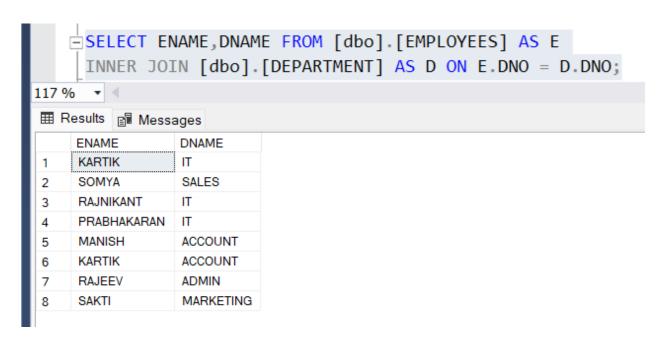
JOINS



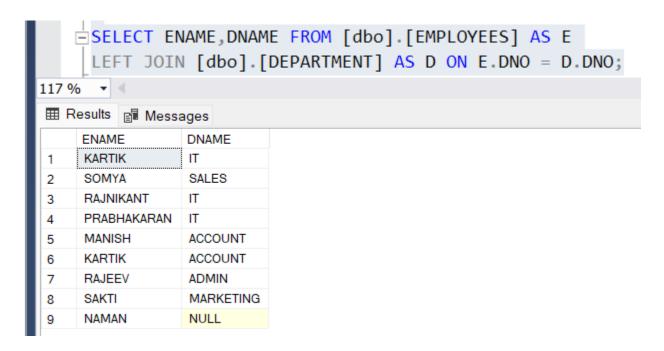
getting a list of the adopted animals from the first shelter



INNER JOIN:



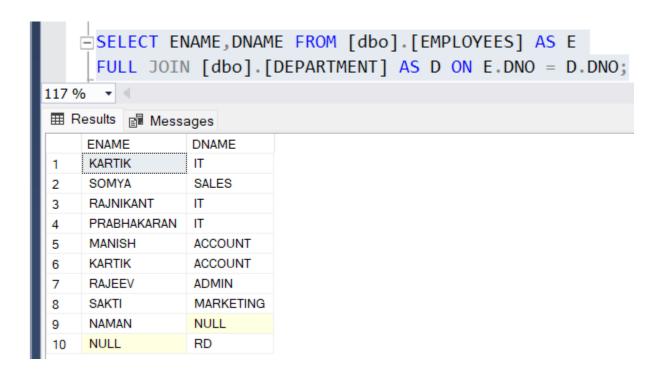
LEFT JOIN:



RIGHT JOIN:

```
SELECT ENAME, DNAME FROM [dbo]. [EMPLOYEES] AS E
     RIGHT JOIN [dbo].[DEPARTMENT] AS D ON E.DNO = D.DNO;
117 % ▼ <
DNAME
    ENAME
               ΙT
    KARTIK
               ΙT
    RAJNIKANT
    PRABHAKARAN
    SOMYA
               SALES
    SAKTI
               MARKETING
    MANISH
               ACCOUNT
               ACCOUNT
    KARTIK
    RAJEEV
               ADMIN
    NULL
               RD
```

FULL JOIN:



Logical Operators in SQL

AND Operator: The AND operator is used to combines two or more conditions but if it is true when all the conditions are satisfied.



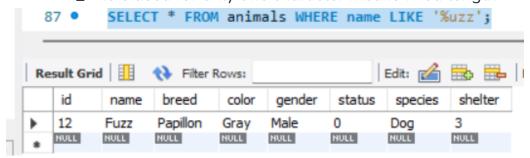
IN Operator: It is used to remove the multiple OR conditions in SELECT, INSERT, UPDATE, or DELETE.



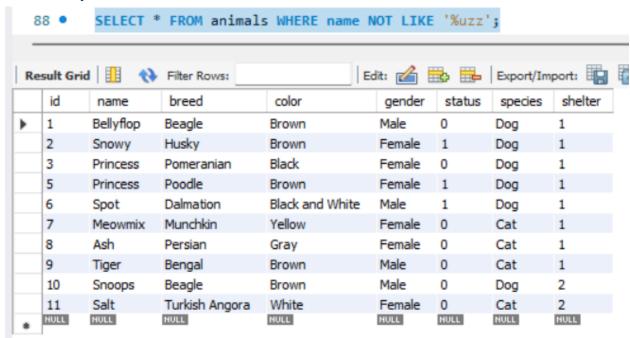
LIKE Operator

In SQL, the LIKE operator is used in the WHERE clause to search for a specified pattern in a column.

- % It is used for zero or more than one character.
- _ It is used for only one character means fixed length.

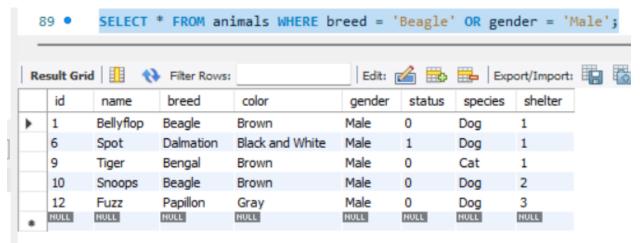


NOT Operator:



OR Operator

The OR operator is used to combines two or more conditions but if it is true when one of the conditions are satisfied.

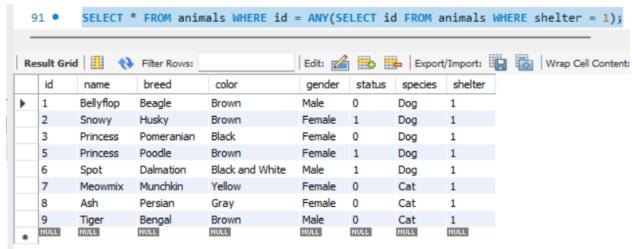


ANY Operator

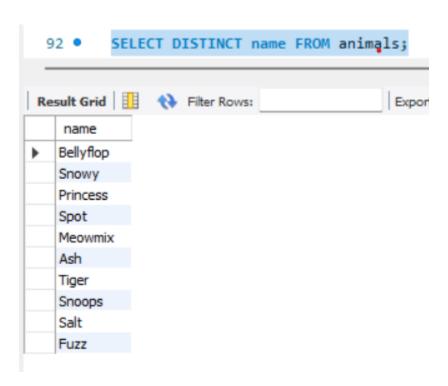
The ANY operator:

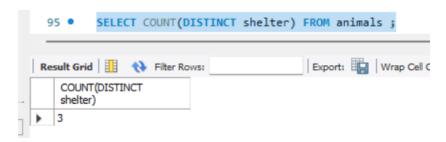
• It returns a boolean value as a result

It returns TRUE if ANY of the subquery values match the condition

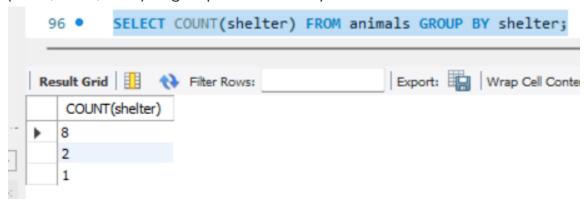


Distinct Clause: We have two animals with same name = princess but distinct clause displayed unique name.





GROUP BY : The GROUP BY clause is often used with aggregate functions (MAX, SUM, AVG) to group the results by one or more columns



HAVING CLAUSE: The HAVING clause is used instead of WHERE with aggregate functions.

