Insert, update, remove Rows in MySQL



- ✓ Insert a record in a table
- ✓ Update a record in a table
- ✓ Remove a record
- ✓ Display all record of a table

Show all the records of a table

SELECT * FROM <table_name>;

Do you remember our Pet table?

Pet					
	name	VARCHAR(20)			
	owner	VARCHAR(20)			
	sex	CHAR(1)			
	birth	DATE			
	death	DATE			

```
CREATE TABLE pet (
   name VARCHAR(20), owner VARCHAR(20), sex CHAR(1),
   birth DATE NOT NULL, death DATE
  );
```

```
INSERT INTO <table_name> (column1, column2, column3, ...)
VALUES (value1, value2, value3, ...);
```

```
INSERT INTO pet (name, owner, sex, birth, death) VALUES ('Puffball', 'Diane', 'f', '1999-03-30', NULL);
```

```
SELECT * FROM pet;
```

INSERT INTO pet (name, owner, birth)
VALUES ('Buffy', 'Harold', '1989-05-13');

SELECT * **FROM** pet;

INSERT INTO pet (name, owner, birth)
VALUES ('Fluffy', 'f','1993-02-04');

SELECT * **FROM** pet;

name	owner	sex	birth	death
Buffy		NULL	1999-03-30 1989-05-13 1993-02-04	NULL

INSERT INTO pet (name, owner, sex)
VALUES ('Freddo', 'Ronan', 'f');

Why is it error?

INSERT INTO pet (name, owner, sex)
VALUES ('Freddo', 'Ronan', 'f');

Birth need to have a value because it is NOT NULL

ACTIVITY 1 (



10 MIN

1. Insert a record in the pet table

You have a pet which name is Fang, is a male, the name of the owner is Benny, is born on the 27th of August 1990 and is still alive.

→ Insert his data in the pet table

```
UPDATE <table_name>
SET column1 = value1, column2 = value2, ...
WHERE condition;
```

```
UPDATE pet
SET sex = 'm', death = '2021-06-21'
WHERE name = 'Buffy';
```

```
UPDATE pet
SET sex = 'm', birth = NULL
WHERE name = 'Buffy';
```

Why is it error?

```
UPDATE pet
SET sex = 'm', birth = NULL
WHERE name = 'Buffy';
```

Birth cannot be NULL

ACTIVITY 2 (



10 MIN

1. Update a record in the pet table

Puffball died yesterday (20th of June 2021).

→ Update the record in the pet table.

Delete a record in a table

DELETE FROM <table_name> WHERE condition;

Delete a record in a table

DELETE FROM pet **WHERE** sex = 'm';

```
birth
                                       death
name
          owner
                  sex
          Diane
Puffball
                   f | 1999-03-30 |
                                       NULL
                        1989-05-13
Buffy
          Harold
                   NULL
                                       NULL
Fluffy
                   NULL
                          1993-02-04
                                       NULL
```

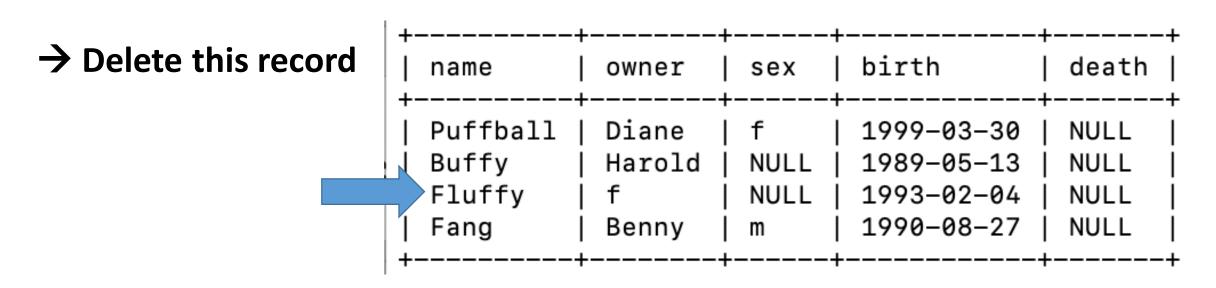
ACTIVITY 3



10 MIN

1. Delete a record of the pet table

The record of the pet name Fluffy is false, you entered the sex in the owner's table.



ACTIVITY 3 (



10 MIN

2. Delete multiple records of the pet table

→ With only one statement, try to delete all the records where the death is NULL in the pet table.

GOOD LINKS

INSERT INTO: https://www.w3schools.com/mysql/mysql_insert.asp

UPDATE: https://www.w3schools.com/sql/sql update.asp

DELETE: https://www.w3schools.com/sql/sql_delete.asp