

# DB

**Insert, update, remove  
Rows in MySQL**



## OBJECTIVES FOR TODAY



- ✓ 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 a record in a table

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

# Insert a record in a table

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

```
SELECT * FROM pet;
```

name	owner	sex	birth	death
Puffball	Diane	f	1999-03-30	NULL

# Insert a record in a table

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

```
SELECT * FROM pet;
```

name	owner	sex	birth	death
Puffball	Diane	f	1999-03-30	NULL
Buffy	Harold	NULL	1989-05-13	NULL

# Insert a record in a table

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


```
SELECT * FROM pet;
```

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



# Insert a record in a table


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



Why is it error?

# Insert a record in a table

```
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 a record in a table

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

# Update a record in a table

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

# Update a record in a table

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



Why is it error?

# Update a record in a table

```
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 (20<sup>th</sup> 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';
```

name	owner	sex	birth	death
Puffball	Diane	f	1999-03-30	NULL
Buffy	Harold	NULL	1989-05-13	NULL
Fluffy	f	NULL	1993-02-04	NULL
<del>Fang</del>	<del>Bonny</del>	<del>m</del>	<del>1990-08-27</del>	<del>NULL</del>

## 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.

→ Delete this record



name	owner	sex	birth	death
Puffball	Diane	f	1999-03-30	NULL
Buffy	Harold	NULL	1989-05-13	NULL
Fluffy	f	NULL	1993-02-04	NULL
Fang	Benny	m	1990-08-27	NULL

## 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](https://www.w3schools.com/mysql/mysql_insert.asp)

UPDATE: [https://www.w3schools.com/sql/sql\\_update.asp](https://www.w3schools.com/sql/sql_update.asp)

DELETE: [https://www.w3schools.com/sql/sql\\_delete.asp](https://www.w3schools.com/sql/sql_delete.asp)