Lesson 5- CRUD commands

- 1- Introduction to crud
- 2- Preparing our data
- 3- Introduction to select command
- 4- Introduction to where command
- 5- Select challenges
- 6- Introduction to aliases
- 7- Introduction to Update command
- 8- Update challenge
- 9- Introduction to delete command

Crud

```
Create
Read
Update
Delete
```

Create

```
CREATE TABLE cats

(
    cat_id INT NOT NULL AUTO_INCREMENT,
    name    VARCHAR(100),
    breed VARCHAR(100),
    age    INT,
    PRIMARY KEY (cat_id)
);
```

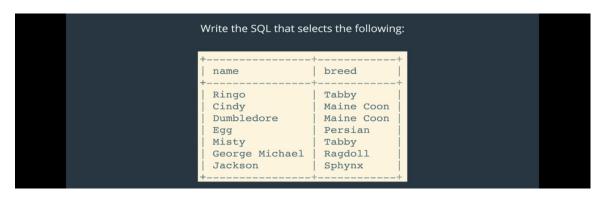
Insert (keep this data because we are usning this data through out the tutorial)

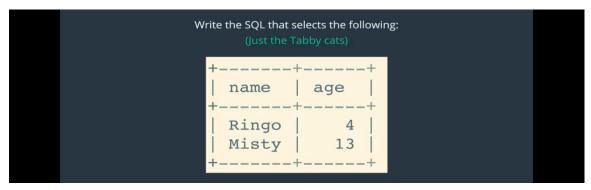
```
INSERT INTO cats(name, breed, age)
                          VALUES ('Ringo', 'Tabby', 4),
    ('Cindy', 'Maine Coon', 10),
    ('Dumbledore', 'Maine Coon', 11),
    ('Egg', 'Persian', 4),
    ('Misty', 'Tabby', 13),
    ('George Michael', 'Ragdoll', 9),
                                 ('Jackson', 'Sphynx', 7);
Read
                                 Remember This?
                           SELECT * FROM cats;
Specific collum to read command
                         SELECT name FROM cats;
                          SELECT age FROM cats;
                    SELECT name, age FROM cats;
Where /select data
                       SELECT * FROM cats WHERE age=4;
```

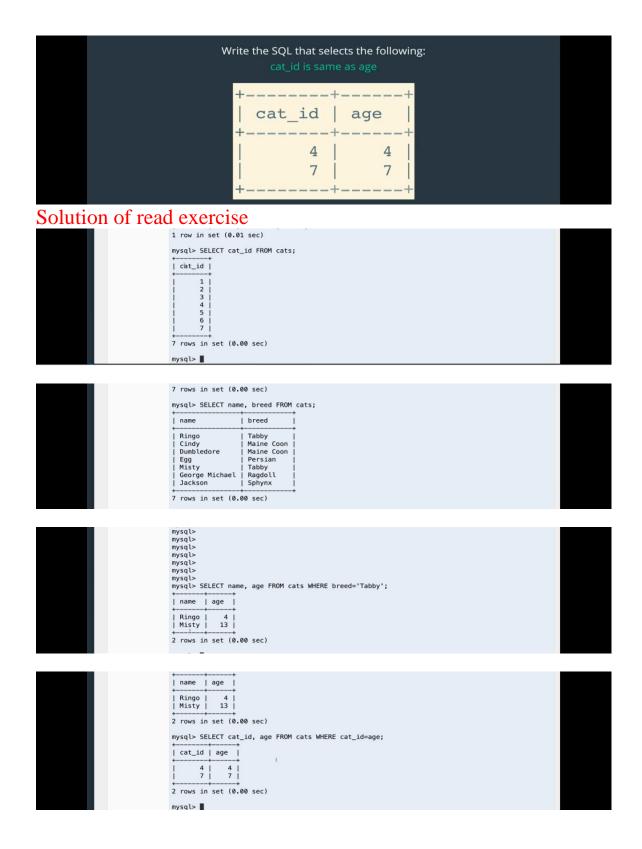
```
SELECT * FROM cats WHERE name='Egg';
```

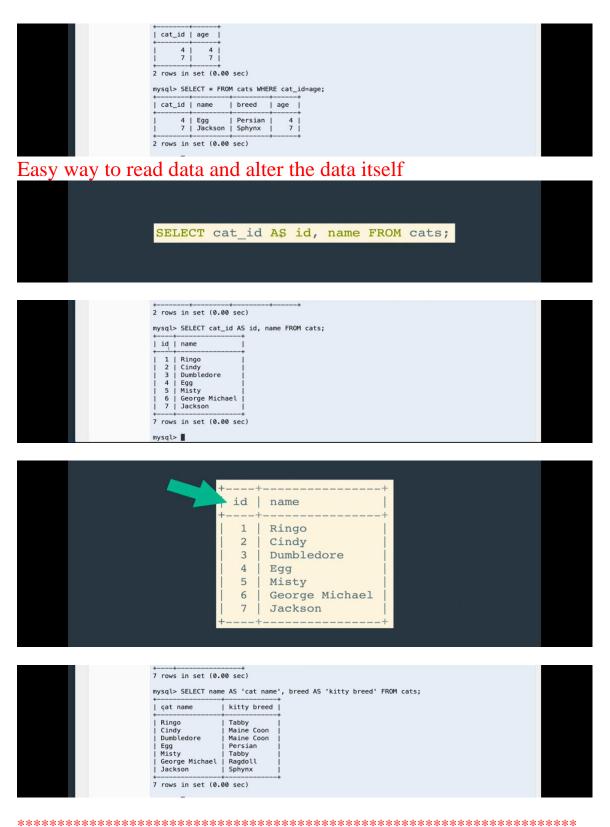
Read exercises

```
#------+
| cat_id |
| +-----+
| 2 |
| 3 |
| 4 |
| 5 |
| 6 |
| 7 |
```









Update data

UPDATE cats SET breed='Shorthair'
WHERE breed='Tabby';

7 rows in set (0.00 sec)

mysql> select * from cats;

cat_id	name	breed	age
1	Ringo	Tabby	4
2	Cindy	Maine Coon	10
3	Dumbledore	Maine Coon	11
4	Egg	Persian	j 4
5	Misty	Tabby	13
6	George Michael	Ragdoll	j 9
7	Jackson	Sphynx	1 7

7 rows in set (0.00 sec)

cat	_id	name	breed	age
1	1	Ringo	Tabby	4
i	2	Cindy	Maine Coon	10
i	3	Dumbledore	Maine Coon	11
i	4	Egg	Persian	4
i	5	Misty	Tabby	13
i	6	George Michael	Ragdoll	9
İ	7	Jackson	Sphynx	7

7 rows in set (0.00 sec)

mysql> UPDATE cats SET breed='Shorthair'
-> WHERE breed='Tabby';
Query OK, 2 rows affected (0.01 sec)
Rows matched: 2 Changed: 2 Warnings: 0

mysals select & from cate.

Rows matched: 2 Changed: 2 Warnings: 0

mysql> select * from cats;

cat_id	name	breed	age
1	Ringo	Shorthair	4
2	Cindy	Maine Coon	1 10
3	Dumbledore	Maine Coon	11
4	Egg	Persian	1 4
5	Misty	Shorthair	13
6	George Michael	Ragdoll	9
7	Jackson	Sphynx	1 7

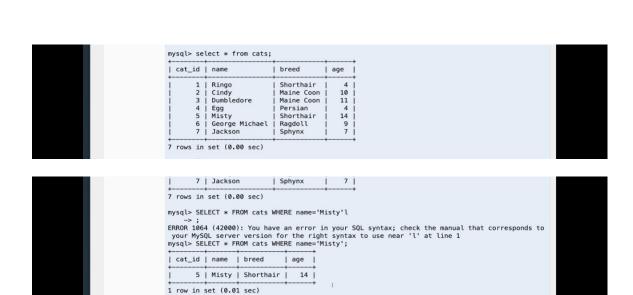
7 rows in set (0.00 sec)

UPDATE cats SET age=14
WHERE name='Misty';

cat_	id	name	breed	age
i	1	Ringo	Shorthair	4
İ	2	Cindy	Maine Coon	10
İ	3	Dumbledore	Maine Coon	11
i	4	Egg	Persian	4
i	5	Misty	Shorthair	13
i	6	George Michael	Ragdoll	9
İ	7	Jackson	Sphynx	7

7 rows in set (0.00 sec)

mysql> UPDATE cats SET age=14
-> WHERE name='Misty';
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0



Update exercise

Change Jackson's name to "Jack"

Change Ringo's breed to "British Shorthair"

Update both Maine Coons' ages to be 12

Solution of update exercise

```
mysql>
mysql>
mysql>
mysql>
SELECT * FROM cats WHERE name='Jackson';

| cat_id | name | breed | age |
| 7 | Jackson | Sphynx | 7 |
| row in set (0.00 sec)

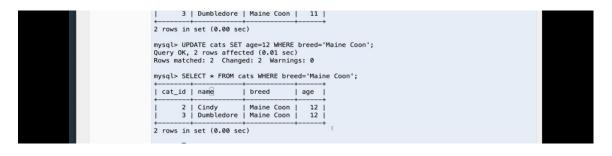
mysql> UPDATE cats SET name='Jack' WHERE name='Jackson';
Ouery OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> SELECT * FROM cats WHERE name='Jackson';
Empty set (0.00 sec)

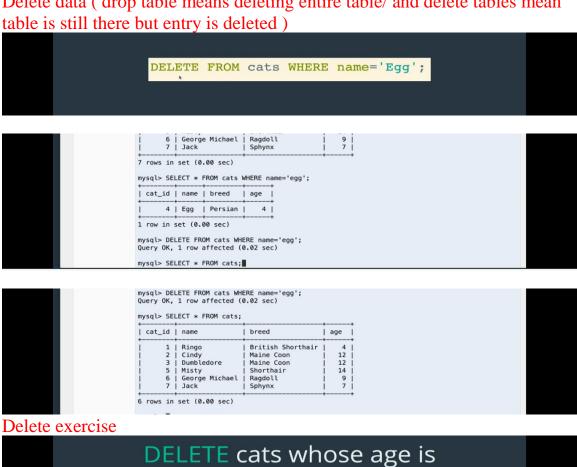
mvsql> SELECT * FROM cats WHERE name='Jackson';
```

```
mysql> UPDATE cats SET name='Jack' WHERE name='Jackson'; Query OK, 1 row affected (0.01 sec) Rows matched: 1 Changed: 1 Warnings: 0
mysql> SELECT * FROM cats WHERE name='Jackson'; Empty set (0.00 sec)
mysql> SELECT * FROM cats WHERE name='Jack';
| cat_id | name | breed | age |
| 7 | Jack | Sphynx | 7 |
1 row in set (0.00 sec)
    7 | Jack | Sphynx | 7 |
1 row in set (0.00 sec)
mysql> SELECT * FROM cats WHERE name='Ringo';
| cat_id | name | breed | age |
| 1 | Ringo | Shorthair | 4 |
1 row in set (0.00 sec)
mysql> UPDATE cats SET breed='British Shorthair' WHERE name='Ringo';
Query OK, 1 row affected (0.00 sec)
Rows matched: 1 Changed: 1 Warnings: 0
mysql> SELECT * FROM cats WHERE name='Ringo';■
| 1 | Ringo | Shorthair | 4 |
1 row in set (0.00 sec)
mysql> UPDATE cats SET breed='British Shorthair' WHERE name='Ringo';
Query OK, 1 row affected (0.00 sec)
Rows matched: 1 Changed: 1 Warnings: 0
mysql> SELECT * FROM cats WHERE name='Ringo';
| cat_id | name | breed | age |
| 1 | Ringo | British Shorthair | 4 |
1 row in set (0.00 sec)
1 row in set (0.00 sec)
mysql> SELECT * FROM cats;
| cat_id | name | breed
        1 | Ringo | British Shorthair |
2 | Cindy | Maine Coon |
3 | Dumbledore | Maine Coon |
4 | Egg | Persian |
5 | Misty | Shorthair |
6 | George Michael | Ragdoll |
7 | Jack | Sphynx |
                                                                 10
11
4
14
7 rows in set (0.00 sec)
mysql> SELECT * FROM cats WHERE breed='Maine Coon';■
         3 | Dumbledore | Maine Coon
4 | Egg | Persian
5 | Misty | Shorthair
6 | George Michael | Ragdoll
7 | Jack | Sphynx
                                                             | 11 |
| 4 |
| 14 |
7 rows in set (0.00 sec)
mysql> SELECT * FROM cats WHERE breed='Maine Coon';
| cat_id | name | breed | age |
         2 | Cindy | Maine Coon |
3 | Dumbledore | Maine Coon |
2 rows in set (0.00 sec)
```

1 row in set (0.00 sec)



Delete data (drop table means deleting entire table/ and delete tables mean



the same as their cat_id

DELETE all cats 🙀

Solution of delete exercise

