MySQL The Basics of CRUD

Create Read Update Delete

Create This Should Be Review

INSERT INTO

```
INSERT INTO cats(name, age)
VALUES('Taco', 14);
```

Create

Read Update Delete Let's start with a clean slate...

DROP TABLE cats;

```
CREATE TABLE cats
  (
    cat_id INT AUTO_INCREMENT,
    name    VARCHAR(100),
    breed    VARCHAR(100),
    age    INT,
    PRIMARY KEY (cat_id)
);
```

Read

How do we retrieve and search data?

SELECT

Remember This?

SELECT * FROM cats;





"Give Me All Columns"

SELECT Expression What columns do you want?

SELECT name FROM cats;

SELECT age FROM cats;

SELECT name, age FROM cats;

The WHERE clause Let's Get Specific

We'll use WHERE all the time

Not just to SELECT...

SELECT * FROM cats WHERE age=4;

SELECT * FROM cats WHERE name='Egg';

Rapid Fire Exercises

Write the SQL that selects the following:

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```
breed
name
Ringo
        | Tabby
Cindy
     | Maine Coon
Dumbledore | Maine Coon
       | Persian
Egg
Misty
       | Tabby
George Michael | Ragdoll
Jackson
            | Sphynx
```

Write the SQL that selects the following: (Just the Tabby cats)

```
+----+
| name | age |
+-----+
| Ringo | 4 |
| Misty | 13 |
+----+
```

Write the SQL that selects the following: cat_id is same as age

```
+----+
| cat_id | age |
+-----+
| 4 | 4 |
| 7 | 7 |
+----+
```

Aliases Easier to read results

SELECT cat_id AS id, name FROM cats;

```
name
Ringo
Cindy
Dumbledore
Egg
Misty
George Michael
Jackson
```

Update

How do we alter existing data?

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

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



Your Turn!

Relatively Painless UPDATE exercises

Change Jackson's name to "Jack"

Change Ringo's breed to "British Shorthair"

Update both Maine Coons' ages to be 12

Delete

Time to learn to...delete things

DELETE FROM cats WHERE name='Egg';

DELETE FROM cats;

Always run SELECT first to double check...

Your Turn!

Get Some Practice With DELETE

DELETE all 4 year old cats

DELETE cats whose age is the same as their cat_id

DELETE all cats

