CS435 / Ch2.5 - A primer on Primary keys

What is up with this? key

Field	Type	Null	Key	Default	Extra
Name	varchar(%)	Yes		NULL	
age	int(11)	Yes		NULL	

I can insert multiple data which is a problem being identicle.

problem on identical data

We want all our data to be unique

How can we create unique identifier

Name	Breed	Age	CATID
Monty	Tabby	10	1
Monty	Tabby	10	2
Monty	Tabby	10	3

- Primary Key - refers to something that is a unique Id on a row.

Ex: CREATE TABLE unique_cats (Cat_id INT NOT NULL
              , name VARCHAR(100)
              , age INT
              , PRIMARY KEY(cat_id));

Disp:

Field	Type	Null	Key	Default	Extra
Cat_id	int(11)	NO	PRI	Null	
name	varchar(100)	Yes		NULL	
age	int(11)	Yes		Null	

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• Create primary keys without specifying cat_id will increment.

Adding in AUTO_INCREMENT:
Ex:

```
CREATE TABLE unique_cats2 (
        Cat_id INT NOT NULL AUTO_INCREMENT,
        name VARCHAR(100),
        age INT,
        PRIMARY KEY (cat_id)
    );
```

```
INSERT INTO unique_cats2(name, age) VALUES ('skippy', 4);
            ⋮
            // More
```

Disp: SELECT * FROM unique_cats2;

Cat_id	name	age
1	skippy	4
2	Jiff	3
3	Jiff	3
4	Jiff	3
5	skippy	4