Lesson 4- Inserting data and couple of other things

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insert

```
INSERT
INTO cats(name, age)
VALUES ('Jetson', 7);
```

Multiple insert

Exercise creating tables and inserting data

Create a *people* table

- first_name 20 char limit
- last name 20 char limit
- age

Single enter exrcise

Insert Your 1st Person!

first_name	last_name	age
'Tina'	'Belcher'	13

One more single entry with Same last name exercise

Insert Your 2nd Person!

first_name	last_name	age
'Bob'	'Belcher'	42

Multiple enter exercise

Multiple Insert Time!

first_name	last_name	age
'Linda'	'Belcher'	45
'Phillip'	'Frond'	38
'Calvin'	'Fischoeder'	70

************************ Solution of people tables exercise

| mysql > CREATE TABLE people(
| -> first_name VARCHAR(20),
| -> last_name VARCHAR(20),
| -> age INT
| -> | ->); Query OK, 0 rows affected (0.03 sec) mysql> DESC people; | Field | Type | Null | Key | Default | Extra | | first_name | varchar(20) | YES | | last_name | varchar(20) | YES | | age | int(11) | YES | NULL NULL 3 rows in set (0.01 sec) mysql> 3 rows in set (0.01 sec) mysql> SELECT * FROM people; | first_name | last_name | age 1 row in set (0.00 sec) mysql> mysql> SELECT * FROM people; | first_name | last_name | age | 2 rows in set (0.00 sec) mysql> SELECT * FROM people; Warnings mysql> DESC cats; | Field | Type | Null | Key | Default | Extra | name | varchar(50) | YES age | int(11) | YES 2 rows in set (0.00 sec)

Null and not null

| Warning | 1364 | Field 'age' doesn't have a default value |

1 row in set (0.00 sec)

Default values

```
To Set Default Values

CREATE TABLE cats3

(
    name VARCHAR(100) DEFAULT 'unnamed',
    age INT DEFAULT '99

);
```

```
Isn't This Redundant?

CREATE TABLE cats4

(
    name VARCHAR(100) NOT NULL DEFAULT 'unnamed',
    age INT NOT NULL DEFAULT 99

);
```

We can still manually set things to NULL if we don't specify NOT NULL INSERT INTO cats3(name, age) VALUES(NULL, 3);

Primary key

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

Auto increment primary key ID

```
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO unique_cats2(name, age) VALUES('Skippy',4);
Query OK, 1 row affected (0.01 sec)

mysql> SELECT * FROM unique_cats2;

| cat_id | name | age |
| 1 | Skippy | 4 |
| 2 | Jiff | 3 |
| 3 | Jiff | 3 |
| 4 | Jiff | 3 |
| 5 | Skippy | 4 |
| 5 rows in set (0.00 sec)
```

Exercise

Define an Employees table, with the following fields:

- id number(automatically increments), mandatory, primary key
- last_name text, mandatory
- first_name text, mandatory
- middle_name text, not mandatory
- age number mandatory
- current_status text, mandatory, defaults to 'employed'

Solution

CREATE TABLE employees (id INT NOT NULL AUTO_INCREMENT, last_name VARCHAR(255) NOT NULL, first_name VARCHAR(255) NOT NULL, middle_name VARCHAR(255), age INTEGER NOT NULL, current_status VARCHAR(100) NOT NULL DEFAULT 'employed', PRIMARY KEY (id));

```
| CREATE TABLE employees ( | CREATE TABLE employ
```