

# CRUD

It refers to creating or deleting data.

It is an acronym for create, read, update and delete.

Active record (Rails model) has methods for each of these actions.

## Create

Add the data directly into the database:

```
user = User.create(name: "David", occupation: "Code Artist")
```

Creates the object but you need to use save to add it to the database:

```
user = User.new
user.name = "David"
user.occupation = "Code Artist"
```

```
user = User.new do |u|
  u.name = "David"
  u.occupation = "Code Artist"
end
```

There is a method to validate in the models, but we will only really know if the record can be saved into the database when trying to save it.

## Read

### Read

- Common methods
  - .all
  - .find\_by(attr\_name: "value")
  - .where
  - .find(:id)

Reference is returned by where

we will have methods like update and update\_all

With references you can use methods that affects methods as update\_all, delete\_all, etc.

```
Stock.where(last_price: nil).update_all(last_price: 5)
```

You can get an Active object using for example .first on a where result.

### Active record

You can add validations and other methods.

## Update

### Update

```
user = User.find_by(name: 'David')
user.name = 'Dave'
user.save
```

```
user = User.find_by(name: 'David')
user.update(name: 'Dave')
```

## Delete

### Delete

```
user = User.find_by(name: 'David')
user.destroy
```

```
# find and delete all users named David
User.destroy_by(name: 'David')

# delete all users
User.destroy_all
```