

Migrations

- What they can do:
 - Create tables
 - Drop tables
 - Rename tables
 - Add column
 - Rename column
 - Change column
 - Remove column
 - Add index
 - Remove index
- Supported data types
 - String
 - Text
 - Integer
 - Float
 - Timestamp
 - Date
 - Binary
 - Boolean
- How to create and run:
 - CREATE: rails generate migration table_name
 - EDIT: edit ruby file to setup up database information

```
class Books < ActiveRecord::Migration
  def self.up
    create_table :books do |t|
      t.column :title, :string, :limit => 32, :null => false
      t.column :price, :float
      t.column :subject_id, :integer
      t.column :description, :text
      t.column :created_at, :timestamp
    end
  end
end
```

- RUN/SUBMIT: rake db:migrate
- Examples:
 - Change a columns type
 - Create a new migration
 - Rails generate migration change_date_format_in_table
 - Edit ruby file
 - ```
class ChangeDateFormatInMyTable < ActiveRecord::Migration
 def up
 change_column :my_table, :my_column, :datetime
 end
end
```

- Make changes
    - Rake db:migrate
- Rename a column
  - Create a new migration
    - Rails generate migration RenameColumn
  - Edit ruby file
    - ```
class RenameColumn < ActiveRecord::Migration
  def self.up
    rename_column :table_name, :old_column, :new_column
  end
end
```
 - Make changes
 - Rake db:migrate
- Links:
 - <http://www.tutorialspoint.com/ruby-on-rails/rails-migrations.htm>
 - <http://stackoverflow.com/questions/1992019/how-can-i-rename-a-database-column-in-a-rails-migration>
 - <http://stackoverflow.com/questions/5191405/ror-migration-change-a-column-type-from-date-to-datetime>