

Django Models and Django Admin

sqlite3

C: Create R: Read U: Update D: Delete

.schema => tables and their columns, data is separate

.tables

Trello App

1. List
 2. Tasks
- Requirements
 - User can add lists => scaler, college (user => next sessions)
 - A list can have multiple tasks
 - One task belongs to just one list
 - Each task can have => name, description, due_date
 - Each list can have => name, created_at
 - Database schema
 - nouns: tables
 - detect attributes
 - relationships
 - Tables
 - Task: id, name, description, due_date, created_at, list_id
 - TaskList: id, name, created_at
 - Relationships
 - one to one: one task belongs to one list
 - many to one: many tasks belongs to one list
 - one to many: one list has many tasks

Above can be done using foreign key

- many to many

Extra table to required to store this.

- Primary Key In a class, student id, roll no unique identifier
- Foreign Key Relating to primary key of some other table

Changes to models

1. Create a new DB, move your previous data to new DB by manual entry => hefty
2. Prev DB schema is known, current models, compare them to write a migration script manually => everytime you will make changes, you need to create a new script
3. general script that identifies the difference in old DB schema and the current models, generate a migration script => Django provides us out of the box

Migration

- `python manage.py makemigrations` => generates migration script
- `python manage.py migrate` => run script

Django Admin

1. Create super user `python3 manage.py createsuperuser`
2. Register our models to django admin