django-elections Documentation

Release 0.2

coordt

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GETTING STARTED

INSTALLATION

Installation is easy using `pip` or `easy_install`.

`pip install django-elections`

or .. code-block:: bash

    easy_install django-elections

2.1 Dependencies

IMPORTING AP DATA

Data import is idempotent, meaning importing the same file over and over doesn't do anything. Only when imported data is different from existing data is a database write performed.

3.1 Importing initial data

```
./manage.py import_bios <filename>
```

Import candidate bios. Do this first.

Do any of these next, in any order.

```
./manage.py import_calendar <filename>
```

```
./manage.py import_education <filename>
```

```
./manage.py import_offices <filename>
```

```
./manage.py import_phones <filename>
```

```
./manage.py import_urls <filename>
```

REFERENCE

4.1 Settings

4.2 RaceCounty Model

class elections.models.**RaceCounty**

Each RaceCounty object contains either the information associated with a particular race in a particular county of a state, or the statewide county summary for that race. In New England states, the reporting units are town or city, and statewide town or city summary.

test_live
> **Required** CharField(1)

> Single character flag indicating test (t) vs. live (l) election results data.

race_county_id
> **Required** BigIntegerField *Primary Key*

> The race_county_id value is for use as a unique identifier for reference from the CountyResult model.

race_number
> **Required** IntegerField

> AP-assigned race number. Race numbers are guaranteed to be unique only within a state.

election_date
> **Required** DateField

> Date of the election.

state_postal
> **Required** CharField(2)

> Two character state abbreviation (e.g., IA, LA,).

county_number
> IntegerField()

> AP-assigned county number. For the statewide total, the "county" number is one (1). County numbers are guaranteed to be unique ONLY within a state.

fips_code
> IntegerField

> Federal Information Processing Standard code. This is zero (0), for the statewide summary total.

county_name
 Required `CharField(64)`

 Name of the state's county. This is the state's name for the statewide total.

office_id
 Required `CharField(1)`

 Single character office type ID. Only Top-of-the-ticket races (President [P], Governor [G], US Senate [S], and US House [H]) are guaranteed to be unique on a national level. All other office types are guaranteed to be unique only within a state. There are other characters used, depending on the state and local races.

race_type_id
 Required `CharField(1)`

 National, state or local race type identifier. National identifiers are:

 •D: Dem Primary

 •E: Dem Caucus

 •R: GOP Primary

 •S: GOP Caucus

 •G: General

 Other characters may be used, depending on the state and local races.

seat_number
 Required `IntegerField`

 Integer indicating district number or an initiative number. This may be zero (0) for a statewide race.

office_name
 `CharField(64)`

 Name of the office (e.g., U.S. House, Governor, etc.).

seat_name
 `CharField(64)`

 The district or initiative name (e.g., District 46, 1A-Gay Marriage, etc.) This may be empty for a statewide race (e.g., a Governor race).

race_type_party
 `CharField(16)`

 Party abbreviation for the race (e.g., Dem, GOP, Lib, etc.). This may be empty for a General Election.

race_type
 `CharField(32)`

 Description of the type of race (e.g., Primary, Runoff, General).

office_description
 `CharField(64)`

 Further description of the office type.

number_of_winners
 Required `IntegerField()`

 The maximum number of winners.

number_in_runoff
> IntegerField

> Number of candidates in a runoff race.

precincts_reporting
> **Required** IntegerField

> The number of precincts currently reporting during the election.

total_precincts
> **Required** IntegerField

> The total number of precincts.

4.3 CountyResult Model

class elections.models.**CountyResult**
> Each CountyResult object describes the result for a particular Candidate in a particular RaceCounty.

> **test_live**
>> **Required** CharField(1)

>> Single character flag indicating test (t) vs. live (l) election results data.

> **race_county**
>> **Required** ForeignKey(RaceCounty)

>> Foreign key to a RaceCounty object.

> **ap_candidate**
>> **Required** ForeignKey(Candidate)

>> Foreign key to a Candidate object.

> **party**
>> CharField(16)

>> The candidate's party abbreviation. This may be different than the CountyResult.race_county.race_type_party field.

> **incumbent**
>> **Required** BooleanField *default:* False

>> True means the candidate an incumbent.

> **vote_count**
>> **Required** IntegerField *default:* 0

>> Candidate's or an initiative's vote tally.

> **winner**
>> CharField(1)

>> X means candidate is the winner or the initiative received a final Yes or No vote, R means candidate advances to the runoff election. An empty value indicates a non-winner

> **natl_order**
>> IntegerField

>> Winning order of candidate in national system.

4.4 Candidate Model

class elections.models.**Candidate**

A candidate running in an election

test_live

Required CharField(1)

Single character flag indicating test (t) vs. live (l) election results data.

politician_id

IntegerField *Primary Key*

National Politician ID(NPID). Uniquely assigned ID for this politician, regardless of the state or races in which this politician is a candidate.

Field may be empty if no unique ID has been assigned to this politician.

ap_candidate_id

Required IntegerField *Unique*

AP-assigned unique ID identifying this specific candidate.

candidate_number

Required IntegerField

AP defined candidate number. Candidate numbers are guaranteed unique only within a single state. See Candidate.politician_id field below for the unique candidate number/ID at the National level, if available.

first_name

CharField(64)

Candidate's first name.

middle_name

CharField(64)

Candidate's middle name.

last_name

CharField(64)

Candidate's last name.

junior

CharField(16)

Trailing Jr or Sr, etc.

use_junior

Required BooleanField *default:* False

Flag indicating whether The AP appends the junior suffix to the candidate's name in reports.

year_first_elected

IntegerField

The year the candidate was first elected to their current office.

birth_date

DateField

The candidate's birth date

birth_place
    CharField(100)

    The name of the place of the candidate's birth.

birth_state
    CharField(2)

    The two-letter state abbreviation of the state in which the candidate was born (If in the United States).

birth_province
    CharField(100)

    The name of the province in which the candidate was born (If outside the United States).

birth_country
    CharField(100)

    The name of the country in which the candidate was born.

residence_place
    CharField(100)

    The name of the place in which the candidate currently lives.

residence_state
    CharField(2)

    The two-letter state abbreviation in which the candidate currently resides.

gender
    CharField(1)

    Either M for male, or F for female.

ethnicity
    CharField(100)

    The candidate's ethnicity

hispanic
    CharField(100)

    The candidate's hispanic background

religion
    CharField(100)

    The candidate's declared practiced religion.

biography
    TextField

    A simple biographical narrative of the candidate.

profile
    TextField

    A political profile of the candidate.

campaigns
    TextField

    Brief information about current election campaigns.

timestamp
>   **Required** `DateTime`
>
>   When the information was last modified.

4.4.1 Properties

`Candidate.`**`full_name`**
>   The candidate's full name, formatted correctly depending on the existence of a middle name and junior suffix.

4.4.2 Related Objects

`Candidate.`**`offices`**
>   Access to all related `CandidateOffice` records.

`Candidate.`**`education`**
>   Access to all related `CandidateEducation` records.

`Candidate.`**`phones`**
>   Access to all the `CandidatePhone` records.

`Candidate.`**`urls`**
>   Access to all the `CandidateURL` records.

4.5 RaceDistrict Model

class `elections.models.`**`RaceDistrict`**
>   Each `RaceDistrict` object contains either the information associated with a particular race in a particular district of a state, or the statewide district summary for that race.

>   **test_live**
>   >   **Required** `CharField(1)`
>   >
>   >   Single character flag indicating test (`t`) vs. live (`l`) election results data.

>   **race_district_id**
>   >   **Required** `BigIntegerField` *Primary Key*
>   >
>   >   The race_county_id value is for use as a unique identifier for reference from the `DistrictResult` model.

>   **race_number**
>   >   **Required** `IntegerField`
>   >
>   >   AP-assigned race number. Race numbers are guaranteed to be unique only within a state.

>   **election_date**
>   >   **Required** `DateField`
>   >
>   >   Date of the election.

>   **state_postal**
>   >   **Required** `CharField(2)`
>   >
>   >   Two character state abbreviation (e.g., IA, LA,).

district_type
> `CharField(16)`

> Abbreviation of the district type

>> •**AL** At-large delegate

>> •**PL** PLEO delegate

>> •**CD** Congressional District

>> •**DD** Delegate District

>> •**SD** State Senate District

cd_number
> `IntegerField`

> A unique district ID with one (1) indicating statewide summaries.

district_name
> `CharField(64)`

> Name of the district (e.g., CD 4, At-Large, etc.)

office_id
> **Required** `CharField(1)`

> Single character office type ID. Only Top-of-the-ticket races (President [P], Governor [G], US Senate [S], and US House [H]) are guaranteed to be unique on a national level. All other office types are guaranteed to be unique only within a state. There are other characters used, depending on the state and local races.

race_type_id
> **Required** `CharField(1)`

> National, state or local race type identifier. National identifiers are:

>> •D: Dem Primary

>> •E: Dem Caucus

>> •R: GOP Primary

>> •S: GOP Caucus

>> •G: General

> Other characters may be used, depending on the state and local races.

seat_number
> **Required** `IntegerField`

> Integer indicating district number or an initiative number. This may be zero (0) for a statewide race.

office_name
> `CharField(64)`

> Name of the office (e.g., U.S. House, Governor, etc.).

seat_name
> `CharField(64)`

> The district or initiative name (e.g., District 46, 1A-Gay Marriage, etc.) This may be empty for a statewide race (e.g., a Governor race).

race_type_party
    CharField(16)

    Party abbreviation for the race (e.g., Dem, GOP, Lib, etc.). This may be empty for a General Election.

race_type
    CharField(32)

    Description of the type of race (e.g., Primary, Runoff, General).

office_description
    CharField(64)

    Further description of the office type.

number_of_winners
    Required IntegerField()

    The maximum number of winners.

precincts_reporting
    Required IntegerField

    The number of precincts currently reporting during the election.

total_precincts
    Required IntegerField

    The total number of precincts.

4.6 DistrictResult Model

class elections.models.**DistrictResult**
    Each DistrictResult object describes the result for a particular Candidate in a particular
    RaceDistrict.

test_live
    Required CharField(1)

    Single character flag indicating test (t) vs. live (l) election results data.

race_district
    Required ForeignKey(RaceDistrict)

    Foreign key to a RaceDistrict object.

ap_candidate
    Required ForeignKey(Candidate)

    Foreign key to a Candidate object.

party
    CharField(16)

    The candidate's party abbreviation. This may be different than the
    DistrictResult.race_district.race_type_party field.

incumbent
    Required BooleanField *default:* False

    True means the candidate an incumbent.

vote_count
> **Required** `IntegerField` *default:* `0`

> Candidate's or an initiative's vote tally.

winner
> `CharField(1)`

> `X` means candidate is the winner or the initiative received a final Yes or No vote, `R` means candidate advances to the runoff election. An empty value indicates a non-winner

natl_order
> `IntegerField`

> Winning order of candidate in national system.

4.7 CandidateOffice Model

class `elections.models.`**`CandidateOffice`**
> An office a candidate currently holds or held in the past.

> **candidate**
> > **Required** `ForeignKey(` `Candidate` `)`

> > The `Candidate` that held or holds this office.

> **office_id**
> > `CharField(1)`

> > Single character office type ID. Only Top-of-the-ticket races (President [`P`], Governor [`G`], US Senate [`S`], and US House [`H`]) are guaranteed to be unique on a national level. All other office types are guaranteed to be unique only within a state. There are other characters used, depending on the state and local races.

> > See also `CandidateOffice.office`

> **state**
> > `CharField(2)`

> > Two character state abbreviation (e.g., IA, LA,). See also `CandidateOffice.state_name`

> **district_number**
> > `CharField(4)`

> > The district number for US House offices. See also `CandidateOffice.district_name`.

> **party_id**
> > `CharField(16)`

> > Party abbreviation for the race (e.g., Dem, GOP, Lib, etc.). See also `CandidateOffice.party_name`

> **status_id**
> > `CharField(1)`

> > The current status of the candidate in the office:

> > > • `I` Incumbant

> > > • `C` Challenger

> > > • `Q` Not seeking re-election

> > See also `CandidateOffice.status_description`

office
    CharField(64)

    The full name of the office.

state_name
    CharField(100)

    The full name of the state in which this office resides.

district_name
    CharField(32)

    The full name of the district for US House offices.

party_name
    CharField(32)

    The full name of the candidate's party

office_description
    CharField(64)

    A description of the office.

status_description
    CharField(64)

    The full text of the status of the candidate in the office.

next_election
    IntegerField

    The year in which the candidate is up for re-election.

checksum
    Required CharField(32)

    A calculated hash to see if imported data is different from the current data.

4.8 CandidateEducation Model

class elections.models.**CandidateEducation**
    Post-secondary education received for each candidate.

candidate
    Required ForeignKey(Candidate)

    The Candidate that held or holds this office.

school_name
    CharField(64)

    The full name of the school or institution.

school_type
    CharField(64)

    Typically Undergraduate or Graduate.

major
    CharField(64)

    The subject studied at the institution.

degree
> CharField(64)

> The initials of the degree earned, or `Attended`.

school_city
> CharField(100)

> The name of the city in which the institution resides.

school_state
> CharField(2)

> The two-letter abbreviation for the state in which the institution resides (for US-based institutions).

school_province
> CharField(100)

> The name of the province in which the institution resides (for non-US-based institutions).

school_country
> CharField(64)

> The country in which the institution resides.

checksum
> **Required** CharField(32)

> A calculated hash to see if imported data is different from the current data.

4.9 CandidatePhone Model

class elections.models.**CandidatePhone**
> Contact phone numbers for each candidate.

candidate
> **Required** ForeignKey(Candidate)

> The Candidate for this phone number.

phone_number
> CharField(15)

extension
> CharField(10)

location
> CharField(64)

detail
> CharField(64)

checksum
> **Required** CharField(32)

> A calculated hash to see if imported data is different from the current data.

4.10 CandidateURL Model

class `elections.models.`**`CandidateURL`**
>   URLs for each candidate.

>   **candidate**
>>   **Required** `ForeignKey(` `Candidate` `)`

>>   The `Candidate` for this URL.

>   **url**
>>   `CharField(255)`

>   **description**
>>   `CharField(255)`

>   **checksum**
>>   **Required** `CharField(32)`

>>   A calculated hash to see if imported data is different from the current data.

INDICES AND TABLES

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PYTHON MODULE INDEX

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