Datenbankschema Cursor Projekt

PostgreSQL 16

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Tabellen im Detail

events

Zweck: Stammdaten gefundener Veranstaltungen

Spalten:

Spalte	Typ	Not Null	Default	Hinweis
id	integer	ja	nextval('events_id_seq')	Primärschlüssel
name	text	ja		
date	date	ja		
workshops	jsonb	nein		
party	jsonb	nein		
address	text	ja		
source_url	text	ja		eindeutig
processed_at	timestamp	ja	now()	Verarbeitungszeitpunkt
created_at	timestamp	nein	now()	
styles	jsonb	nein		
recurrence	character varying	nein		
venue_type	character varying	nein		
recurrence_type	character varying(50)	nein		
city	character varying(100)	ja		

Schlüssel & Constraints:

- Primärschlüssel: events_pkey (id)
- Eindeutig: events_source_url_key (source_url)
- NOT NULL-Spalten: id, name, date, address, source_url, processed_at, city

Indizes (zusätzlich): idx_events_address (address), idx_events_city (city), idx_events_date (date), idx_events_source_url (source_url)

Sequenz: events_id_seq → events.id

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event_dates

Zweck: Einzelne Veranstaltungstage pro Event.

Spalten:

Spalte	Typ	Not Null	Default	Hinweis
id	integer	ja	nextval('event_dates_id_seq')	Primärschlüssel
event_id	integer	ja		FK → events(id), ON DELETE CASCADE
event_date	date	ja		
is_calculated	boolean	nein	false	
created_at	timestamp	nein	now()	

Schlüssel & Constraints:

- Primärschlüssel: event_dates_pkey (id)
- Fremdschlüssel: event_dates_event_id_fkey (event_id → events.id) ON DELETE CASCADE
- NOT NULL-Spalten: id, event_id, event_date

Indizes (zusätzlich): idx_event_dates_date (event_date), idx_event_dates_event_id (event_id), idx_event_dates_event_date (event_id, event_date)

Sequenz: event_dates_id_seq → event_dates.id

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votes

Zweck: Community-Votes zur Existenz eines Events (ohne FK; Einzigartigkeit pro Woche via Unique-Index).

Spalten:

Spalte	Typ	Not Null	Default	Hinweis
id	integer	ja	nextval('votes_id_seq')	Primärschlüssel
event_id	character varying(64)	ja		

Spalte	Typ	Not Null	Default	Hinweis
user_uuid	uuid	ja		
vote_type	character varying(16)	ja		Werte {exists, not_exists}
vote_time	timestamp	ja	now()	

Schlüssel & Constraints:

- Primärschlüssel: votes_pkey (id)
- Checks: votes_type_check, votes_vote_type_check (vote_type ∈ {‘exists’,‘not_exists’})
- NOT NULL-Spalten: id, event_id, user_uuid, vote_type, vote_time

Indizes (zusätzlich): idx_votes_event_id (event_id), idx_votes_event_week (event_id, date_trunc(‘week’, vote_time)), unique_vote_per_user_event_week UNIQUE (event_id, user_uuid, date_trunc(‘week’, vote_time))

Sequenz: votes_id_seq → votes.id

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venue_votes

Zweck: Votes zur Location-Art (ohne FK).

Spalten:

Spalte	Typ	Not Null	Default	Hinweis
id	integer	ja	nextval(‘venue_votes_id_seq’)	Primärschlüssel
event_id	character varying(64)	ja		
user_uuid	uuid	ja		
vote_type	character varying(16)	ja		Werte {indoor, outdoor}
vote_time	timestamp	ja	now()	

Schlüssel & Constraints:

- Primärschlüssel: venue_votes_pkey (id)
- Eindeutig: venue_votes_event_id_user_uuid_key (event_id, user_uuid)
- Checks: venue_votes_type_check, venue_votes_vote_type_check (vote_type ∈ {‘indoor’,‘outdoor’})
- NOT NULL-Spalten: id, event_id, user_uuid, vote_type, vote_time

Indizes (zusätzlich): idx_venue_votes_event_id (event_id)

Sequenz: venue_votes_id_seq → venue_votes.id

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visited_urls

Zweck: Protokoll besuchter Seiten im Crawler.

Spalten:

Spalte	Typ	Not Null	Default	Hinweis
id	integer	ja	nextval('visited_urls_id_seq')	Primärschlüssel
url	text	ja		eindeutig
visited_at	timestamp	nein	now()	
extraction_success	boolean	nein	false	
failure_reason	text	nein		
created_at	timestamp	nein	now()	

Schlüssel & Constraints:

- Primärschlüssel: visited_urls_pkey (id)
- Eindeutig: visited_urls_url_key (url)
- NOT NULL-Spalten: id, url

Indizes (zusätzlich): idx_visited_urls_url (url), idx_visited_urls_visited_at (visited_at)

Sequenz: visited_urls_id_seq → visited_urls.id

Sequenzen

- event_dates_id_seq → event_dates.id (OWNED BY)
- events_id_seq → events.id (OWNED BY)
- venue_votes_id_seq → venue_votes.id (OWNED BY)
- visited_urls_id_seq → visited_urls.id (OWNED BY)
- votes_id_seq → votes.id (OWNED BY)

Beziehungen zusammengefasst

- events 1→n event_dates (FK: event_dates.event_id, ON DELETE CASCADE)
- votes und venue_votes haben keinen Fremdschlüssel auf events