<https://gemini.google.com/u/1/app/b76d14705d5101f9?is_sa=1&android-min-version=301356232&ios-min-version=322.0&campaign_id=bkws&utm_source=google&utm_medium=cpc&utm_campaign=2024enUS_gemfeb&pt=9008&mt=8&ct=p-growth-sem-bkws>

<https://gemini.google.com/u/1/app/a7603b60134369c2>

<https://gemini.google.com/u/1/app/42a77d08d7a45bcb>

\* \* \* \* \*

### 3\. Updated Production-Ready Specification

\* \* \* \* \*

Production-Ready Specification: public.curated\_itineraries Table

Version: 3.1 (V2.1 Checklist REV 05-18-25-A Applied)

Date: May 18, 2025

1\. Purpose & Primary Use-Cases

Stores the metadata and summary information for pre-defined, editorially-managed pilgrimage itineraries. It defines the "what" and "why" of an itinerary (e.g., name, theme, suitability, overall statistics), serving as the central record for curated journey suggestions.

\*Key User-Story Touchpoints:\*

- Pilgrim (Anna): Enables Browse, filtering, and selecting pre-defined itineraries (A7). Provides overall context (description, difficulty, duration) before viewing daily segments (A2). Offers curated suggestions (A1). Supports displaying information in preferred language (A6).

- Platform Administrator (Admin Team) / Regional Content Manager (Sofia): Allows creation, management, and featuring of itineraries (D2). Supports overall content management and quality control (D1).

2\. Schema

| Column | Data Type | Constraints | Description (Translatable fields marked) |

| `id` | `bigint` | Primary Key, Generated always as identity | Unique identifier for each curated itinerary. |

| `name` | `text` | Not Null, Unique (`trail\_id`, `name`), `CHECK (char\_length(name) <= 255)` | The human-readable name of the itinerary (Base language: English). (Translatable) Max 255 chars. |

| `slug` | `text` | Not Null, Unique, `CHECK (slug ~ '^[a-z0-9]+(?:-[a-z0-9]+)\*$' AND char\_length(slug) <= 255)` | URL-friendly identifier. Auto-generated from name recommended. Max 255 chars. |

| `itinerary\_code` | `text` | Unique, `CHECK (itinerary\_code IS NULL OR (itinerary\_code ~ '^[A-Z0-9\_-]+$' AND char\_length(itinerary\_code) <= 50))` | Optional short code for internal reference (e.g., "VDF\_LVA\_10D"). Max 50 chars. Unique when present. |

| `primary\_trail\_id` | `bigint` | Foreign Key to `public.trails(id)` ON DELETE SET NULL, Nullable | The main trail this itinerary is primarily associated with. |

| `based\_on\_primary\_route\_id` | `bigint` | Foreign Key to `public.routes(id)` ON DELETE SET NULL, Nullable | Optional: If this itinerary largely follows an existing official route. |

| `short\_description` | `text` | Nullable, `CHECK (char\_length(short\_description) <= 500)` | A brief summary of the itinerary (Base language: English). (Translatable) Max 500 chars. |

| `long\_description` | `text` | Nullable | Detailed description of the itinerary (Base language: English). (Translatable) |

| `theme\_or\_focus` | `text` | Nullable, `CHECK (char\_length(theme\_or\_focus) <= 255)` | Primary theme or focus (Base language: English). (Translatable) Max 255 chars. |

| `suitability\_notes` | `text` | Nullable | Notes on who this itinerary is best suited for (Base language: English). (Translatable) |

| `total\_walking\_days\_approx` | `integer` | Nullable, `CHECK (total\_walking\_days\_approx IS NULL OR total\_walking\_days\_approx > 0)` | Approximate number of actual walking days. (Manual V1, calculated V2+). |

| `total\_nights\_approx` | `integer` | Nullable, `CHECK (total\_nights\_approx IS NULL OR total\_nights\_approx >= 0)` | Approximate number of overnight stays required. (Manual V1, calculated V2+). |

| `total\_distance\_km\_approx` | `real` | Nullable, `CHECK (total\_distance\_km\_approx IS NULL OR total\_distance\_km\_approx > 0)` | Approximate total distance in kilometers. (Manual V1, calculated V2+). |

| `overall\_difficulty\_level\_id` | `integer` | Foreign Key to `public.trail\_difficulty\_levels\_master(id)` ON DELETE SET NULL, Nullable | Overall difficulty assessment, linking to `trail\_difficulty\_levels\_master`. |

| `primary\_start\_location\_text` | `text` | Nullable, `CHECK (char\_length(primary\_start\_location\_text) <= 255)` | Descriptive starting point (Base language: English). (Translatable) Max 255 chars. |

| `primary\_end\_location\_text` | `text` | Nullable, `CHECK (char\_length(primary\_end\_location\_text) <= 255)` | Descriptive ending point (Base language: English). (Translatable) Max 255 chars. |

| `start\_waypoint\_id\_approx` | `bigint` | Foreign Key to `public.waypoints(id)` ON DELETE SET NULL, Nullable | Optional: Links to a specific waypoint for the approximate starting point. |

| `end\_waypoint\_id\_approx` | `bigint` | Foreign Key to `public.waypoints(id)` ON DELETE SET NULL, Nullable | Optional: Links to a specific waypoint for the approximate ending point. |

| `banner\_image\_media\_id` | `uuid` | Foreign Key to `public.media(id)` ON DELETE SET NULL, Nullable | A primary banner image for this itinerary. |

| `map\_overview\_image\_media\_id` | `uuid` | Foreign Key to `public.media(id)` ON DELETE SET NULL, Nullable | A static map image overview of the itinerary's path. |

| `created\_by\_profile\_id` | `uuid` | Foreign Key to `public.profiles(id)` ON DELETE SET NULL, Nullable | Admin/curator who created this itinerary. |

| `content\_status\_id` | `integer` | Foreign Key to `public.content\_statuses\_master(id)` ON DELETE RESTRICT, Not Null (\*Default via application/trigger\*) | Publication status, linking to `content\_statuses\_master`. |

| `published\_at` | `timestamp with time zone` | Nullable | Timestamp when the itinerary was first published. |

| `is\_featured\_itinerary` | `boolean` | Not Null, Default `false` | Flag to highlight this itinerary. |

| `version\_notes` | `text` | Nullable | Notes about the current version or recent significant changes. |

| `summary\_stats\_last\_calculated\_at` | `timestamp with time zone` | Nullable | If distance/days are calculated (V2+), when they were last updated. |

| `data\_last\_verified\_at` | `timestamp with time zone` | Nullable | When the overall itinerary content was last editorially reviewed. |

| `created\_at` | `timestamp with time zone` | Not Null, Default `now()` | Timestamp of creation. |

| `updated\_at` | `timestamp with time zone` | Not Null, Default `now()` | Timestamp of last update (auto-updated by trigger). |

| `updated\_by\_profile\_id` | `uuid` | Foreign Key to `public.profiles(id)` ON DELETE SET NULL, Nullable | Profile ID of user who last updated this record. |

| `deleted\_at` | `timestamp with time zone` | Nullable | For soft deletion. If set, the itinerary is considered deleted. |

3\. PostgreSQL DDL

SQL

```

-- Ensure prerequisite tables:

-- public.trails (PK: id BIGINT)

-- public.routes (PK: id BIGINT)

-- public.waypoints (PK: id BIGINT)

-- public.media (PK: id UUID)

-- public.profiles (PK: id UUID)

-- public.trail\_difficulty\_levels\_master (PK: id INTEGER)

-- public.content\_statuses\_master (PK: id INTEGER)

CREATE TABLE public.curated\_itineraries (

id BIGINT GENERATED ALWAYS AS IDENTITY PRIMARY KEY,

name TEXT NOT NULL CHECK (char\_length(name) <= 255), -- (Translatable)

slug TEXT NOT NULL UNIQUE CHECK (slug ~ '^[a-z0-9]+(?:-[a-z0-9]+)\*$' AND char\_length(slug) <= 255),

itinerary\_code TEXT UNIQUE CHECK (itinerary\_code IS NULL OR (itinerary\_code ~ '^[A-Z0-9\_-]+$' AND char\_length(itinerary\_code) <= 50)),

primary\_trail\_id BIGINT REFERENCES public.trails(id) ON DELETE SET NULL,

based\_on\_primary\_route\_id BIGINT REFERENCES public.routes(id) ON DELETE SET NULL,

short\_description TEXT CHECK (short\_description IS NULL OR char\_length(short\_description) <= 500), -- (Translatable)

long\_description TEXT, -- (Translatable)

theme\_or\_focus TEXT CHECK (theme\_or\_focus IS NULL OR char\_length(theme\_or\_focus) <= 255), -- (Translatable)

suitability\_notes TEXT, -- (Translatable)

total\_walking\_days\_approx INTEGER CHECK (total\_walking\_days\_approx IS NULL OR total\_walking\_days\_approx > 0),

total\_nights\_approx INTEGER CHECK (total\_nights\_approx IS NULL OR total\_nights\_approx >= 0),

total\_distance\_km\_approx REAL CHECK (total\_distance\_km\_approx IS NULL OR total\_distance\_km\_approx > 0),

overall\_difficulty\_level\_id INTEGER REFERENCES public.trail\_difficulty\_levels\_master(id) ON DELETE SET NULL,

primary\_start\_location\_text TEXT CHECK (primary\_start\_location\_text IS NULL OR char\_length(primary\_start\_location\_text) <= 255), -- (Translatable)

primary\_end\_location\_text TEXT CHECK (primary\_end\_location\_text IS NULL OR char\_length(primary\_end\_location\_text) <= 255), -- (Translatable)

start\_waypoint\_id\_approx BIGINT REFERENCES public.waypoints(id) ON DELETE SET NULL,

end\_waypoint\_id\_approx BIGINT REFERENCES public.waypoints(id) ON DELETE SET NULL,

banner\_image\_media\_id UUID REFERENCES public.media(id) ON DELETE SET NULL,

map\_overview\_image\_media\_id UUID REFERENCES public.media(id) ON DELETE SET NULL,

created\_by\_profile\_id UUID REFERENCES public.profiles(id) ON DELETE SET NULL,

content\_status\_id INTEGER NOT NULL REFERENCES public.content\_statuses\_master(id) ON DELETE RESTRICT, -- Default for 'draft' status ID to be handled by application or trigger

published\_at TIMESTAMPTZ,

is\_featured\_itinerary BOOLEAN NOT NULL DEFAULT FALSE,

version\_notes TEXT,

summary\_stats\_last\_calculated\_at TIMESTAMPTZ,

data\_last\_verified\_at TIMESTAMPTZ,

created\_at TIMESTAMPTZ NOT NULL DEFAULT now(),

updated\_at TIMESTAMPTZ NOT NULL DEFAULT now(),

updated\_by\_profile\_id UUID REFERENCES public.profiles(id) ON DELETE SET NULL,

deleted\_at TIMESTAMPTZ,

UNIQUE (trail\_id, name) -- Ensures name is unique within a parent trail

);

-- Indexes

-- PK index on id is auto-created

-- UNIQUE constraints on slug, itinerary\_code (partial), and (trail\_id, name) create indexes

CREATE INDEX IF NOT EXISTS idx\_curated\_itineraries\_primary\_trail\_id ON public.curated\_itineraries(primary\_trail\_id);

CREATE INDEX IF NOT EXISTS idx\_curated\_itineraries\_based\_on\_primary\_route\_id ON public.curated\_itineraries(based\_on\_primary\_route\_id);

CREATE INDEX IF NOT EXISTS idx\_curated\_itineraries\_start\_waypoint\_id ON public.curated\_itineraries(start\_waypoint\_id\_approx);

CREATE INDEX IF NOT EXISTS idx\_curated\_itineraries\_end\_waypoint\_id ON public.curated\_itineraries(end\_waypoint\_id\_approx);

CREATE INDEX IF NOT EXISTS idx\_curated\_itineraries\_created\_by\_profile\_id ON public.curated\_itineraries(created\_by\_profile\_id);

CREATE INDEX IF NOT EXISTS idx\_curated\_itineraries\_updated\_by\_profile\_id ON public.curated\_itineraries(updated\_by\_profile\_id);

CREATE INDEX IF NOT EXISTS idx\_curated\_itineraries\_difficulty\_level\_id ON public.curated\_itineraries(overall\_difficulty\_level\_id);

CREATE INDEX IF NOT EXISTS idx\_curated\_itineraries\_content\_status\_id ON public.curated\_itineraries(content\_status\_id);

CREATE INDEX IF NOT EXISTS idx\_curated\_itineraries\_deleted\_at ON public.curated\_itineraries(deleted\_at) WHERE deleted\_at IS NULL;

-- Comments

COMMENT ON TABLE public.curated\_itineraries IS 'Stores metadata and summary information for pre-defined, editorially-managed pilgrimage itineraries. Version 3.1.';

COMMENT ON COLUMN public.curated\_itineraries.id IS 'PK. Unique identifier for each curated itinerary. Version 3.1.';

COMMENT ON COLUMN public.curated\_itineraries.name IS 'The human-readable name of the itinerary (Base language: English). Translatable via public.translations. Max 255 chars. Unique within its parent trail. Version 3.1.';

COMMENT ON COLUMN public.curated\_itineraries.slug IS 'URL-friendly identifier for the itinerary. Auto-generated from name recommended. Max 255 chars. Must be unique. Pattern: ^[a-z0-9]+(?:-[a-z0-9]+)\*$. Version 3.1.';

COMMENT ON COLUMN public.curated\_itineraries.itinerary\_code IS 'An optional short, unique code for internal reference (e.g., "VDF\_LVA\_10D"). Max 50 chars. Pattern: ^[A-Z0-9\_-]+$. Unique when present. Version 3.1.';

COMMENT ON COLUMN public.curated\_itineraries.short\_description IS 'A brief summary of the itinerary (Base language: English). Translatable via public.translations. Max 500 chars. Version 3.1.';

COMMENT ON COLUMN public.curated\_itineraries.long\_description IS 'Detailed description of the itinerary, its theme, target audience, etc. (Base language: English). Translatable via public.translations. Version 3.1.';

COMMENT ON COLUMN public.curated\_itineraries.theme\_or\_focus IS 'Primary theme or focus of this itinerary (Base language: English). Translatable via public.translations. Max 255 chars. Version 3.1.';

COMMENT ON COLUMN public.curated\_itineraries.suitability\_notes IS 'Notes on who this itinerary is best suited for (Base language: English). Translatable via public.translations. Version 3.1.';

COMMENT ON COLUMN public.curated\_itineraries.overall\_difficulty\_level\_id IS 'Overall difficulty assessment, FK to trail\_difficulty\_levels\_master.id. Version 3.1.';

COMMENT ON COLUMN public.curated\_itineraries.primary\_start\_location\_text IS 'Descriptive starting point (Base language: English). Translatable via public.translations. Max 255 chars. Version 3.1.';

COMMENT ON COLUMN public.curated\_itineraries.primary\_end\_location\_text IS 'Descriptive ending point (Base language: English). Translatable via public.translations. Max 255 chars. Version 3.1.';

COMMENT ON COLUMN public.curated\_itineraries.content\_status\_id IS 'Publication status, FK to content\_statuses\_master.id. Default corresponding to ''draft'' status to be handled by application logic or a trigger. Version 3.1.';

COMMENT ON COLUMN public.curated\_itineraries.total\_walking\_days\_approx IS 'Approximate number of actual walking days. (Manual V1, calculated V2+). Version 3.1.';

COMMENT ON COLUMN public.curated\_itineraries.updated\_at IS 'Timestamp of last update (auto-updated by trigger). Version 3.1.';

COMMENT ON COLUMN public.curated\_itineraries.updated\_by\_profile\_id IS 'Profile ID of the user who last updated this record. FK to public.profiles.id. Version 3.1.';

COMMENT ON COLUMN public.curated\_itineraries.deleted\_at IS 'For soft deletion. If set, the itinerary is considered deleted. Version 3.1.';

```

4\. Triggers/Functions

- Audit Metadata Trigger:

SQL

```

CREATE OR REPLACE FUNCTION public.set\_curated\_itinerary\_audit\_meta()

RETURNS TRIGGER AS $$

BEGIN

NEW.updated\_at = NOW();

IF (TG\_OP = 'INSERT') THEN

-- For interactive inserts by app, auth.uid() will be used if available.

-- For seeding/migrations, created\_by\_profile\_id can be set explicitly in the INSERT statement.

NEW.created\_by\_profile\_id = COALESCE(NEW.created\_by\_profile\_id, auth.uid());

NEW.updated\_by\_profile\_id = COALESCE(NEW.updated\_by\_profile\_id, auth.uid());

ELSIF (TG\_OP = 'UPDATE') THEN

-- Ensure created\_at and created\_by\_profile\_id are not changed on update.

NEW.created\_at = OLD.created\_at;

NEW.created\_by\_profile\_id = OLD.created\_by\_profile\_id;

NEW.updated\_by\_profile\_id = COALESCE(NEW.updated\_by\_profile\_id, auth.uid());

END IF;

RETURN NEW;

END;

$$ LANGUAGE plpgsql SECURITY DEFINER;

-- It is crucial to set a safe search\_path for SECURITY DEFINER functions

ALTER FUNCTION public.set\_curated\_itinerary\_audit\_meta() SET search\_path = public;

CREATE TRIGGER trigger\_set\_curated\_itinerary\_audit\_meta

BEFORE INSERT OR UPDATE ON public.curated\_itineraries

FOR EACH ROW

EXECUTE FUNCTION public.set\_curated\_itinerary\_audit\_meta();

```

\*Comment on Trigger\*: Manages `created\_at`, `updated\_at`, `created\_by\_profile\_id`, and `updated\_by\_profile\_id` columns. `created\_by\_profile\_id` is populated on insert (app should pass it or it uses `auth.uid()`). `updated\_by\_profile\_id` is populated on insert and update. `created\_at` and `created\_by\_profile\_id` are preserved on update.

- Orphaned Translation Cleanup Trigger:

SQL

```

CREATE OR REPLACE FUNCTION public.cleanup\_curated\_itineraries\_translations()

RETURNS TRIGGER AS $$

BEGIN

DELETE FROM public.translations

WHERE table\_identifier = 'curated\_itineraries'

AND row\_foreign\_key = OLD.id::text;

RETURN OLD;

END;

$$ LANGUAGE plpgsql SECURITY DEFINER;

ALTER FUNCTION public.cleanup\_curated\_itineraries\_translations() SET search\_path = public;

CREATE TRIGGER trigger\_cleanup\_curated\_itineraries\_translations

AFTER DELETE ON public.curated\_itineraries

FOR EACH ROW

EXECUTE FUNCTION public.cleanup\_curated\_itineraries\_translations();

```

\*Comment on Trigger\*: After an itinerary is deleted, this trigger removes any associated translations from `public.translations` for its translatable fields.

5\. JSON Schema Mirror

JSON

```

{

"title": "curated\_itinerary",

"description": "Stores metadata and summary information for a pre-defined, editorially-managed pilgrimage itinerary. Version 3.1.",

"type": "object",

"properties": {

"id": {

"type": "integer",

"format": "int64",

"readOnly": true,

"description": "PK. Unique identifier for each curated itinerary. Version 3.1."

},

"name": {

"type": "string",

"maxLength": 255,

"description": "The human-readable name of the itinerary (Base language: English). Translatable via public.translations. Max 255 chars. Unique within its parent trail. Version 3.1."

},

"slug": {

"type": "string",

"maxLength": 255,

"pattern": "^[a-z0-9]+(?:-[a-z0-9]+)\*$",

"description": "URL-friendly identifier for the itinerary. Auto-generated from name recommended. Max 255 chars. Must be unique. Version 3.1."

},

"itinerary\_code": {

"type": ["string", "null"],

"maxLength": 50,

"pattern": "^[A-Z0-9\_-]+$",

"description": "An optional short, unique code for internal reference (e.g., \"VDF\_LVA\_10D\"). Max 50 chars. Unique when present. Version 3.1."

},

"primary\_trail\_id": {

"type": ["integer", "null"], "format": "int64",

"description": "The main trail this itinerary is primarily associated with. FK to public.trails.id. Version 3.1."

},

"based\_on\_primary\_route\_id": {

"type": ["integer", "null"], "format": "int64",

"description": "Optional: If this itinerary largely follows an existing official route. FK to public.routes.id. Version 3.1."

},

"short\_description": {

"type": ["string", "null"],

"maxLength": 500,

"description": "A brief summary of the itinerary (Base language: English). Translatable via public.translations. Max 500 chars. Version 3.1."

},

"long\_description": {

"type": ["string", "null"],

"description": "Detailed description of the itinerary, its theme, target audience, and what to expect (Base language: English). Translatable via public.translations. Version 3.1."

},

"theme\_or\_focus": {

"type": ["string", "null"],

"maxLength": 255,

"description": "Primary theme or focus of this itinerary (Base language: English). Translatable via public.translations. Max 255 chars. Version 3.1."

},

"suitability\_notes": {

"type": ["string", "null"],

"description": "Notes on who this itinerary is best suited for (Base language: English). Translatable via public.translations. Version 3.1."

},

"total\_walking\_days\_approx": {

"type": ["integer", "null"],

"minimum": 1,

"description": "Approximate number of actual walking days. (Manual V1, calculated V2+). Version 3.1."

},

"total\_nights\_approx": {

"type": ["integer", "null"],

"minimum": 0,

"description": "Approximate number of overnight stays required. (Manual V1, calculated V2+). Version 3.1."

},

"total\_distance\_km\_approx": {

"type": ["number", "null"],

"format": "float",

"exclusiveMinimum": 0,

"description": "Approximate total distance in kilometers. (Manual V1, calculated V2+). Version 3.1."

},

"overall\_difficulty\_level\_id": {

"type": ["integer", "null"],

"description": "Overall difficulty assessment, FK to trail\_difficulty\_levels\_master.id. Version 3.1."

},

"primary\_start\_location\_text": {

"type": ["string", "null"],

"maxLength": 255,

"description": "Descriptive starting point of the itinerary (Base language: English). Translatable via public.translations. Max 255 chars. Version 3.1."

},

"primary\_end\_location\_text": {

"type": ["string", "null"],

"maxLength": 255,

"description": "Descriptive ending point of the itinerary (Base language: English). Translatable via public.translations. Max 255 chars. Version 3.1."

},

"start\_waypoint\_id\_approx": {

"type": ["integer", "null"], "format": "int64",

"description": "Optional: Links to a specific waypoint for the approximate starting point. FK to public.waypoints.id. Version 3.1."

},

"end\_waypoint\_id\_approx": {

"type": ["integer", "null"], "format": "int64",

"description": "Optional: Links to a specific waypoint for the approximate ending point. FK to public.waypoints.id. Version 3.1."

},

"banner\_image\_media\_id": {

"type": ["string", "null"],

"format": "uuid",

"description": "A primary banner image for this itinerary. FK to public.media.id. Version 3.1."

},

"map\_overview\_image\_media\_id": {

"type": ["string", "null"],

"format": "uuid",

"description": "A static map image overview of the itinerary's path. FK to public.media.id. Version 3.1."

},

"created\_by\_profile\_id": {

"type": ["string", "null"],

"format": "uuid",

"description": "Admin/curator who created this itinerary. FK to public.profiles.id. Read-only. Version 3.1.",

"readOnly": true

},

"content\_status\_id": {

"type": "integer",

"description": "Publication status, FK to content\_statuses\_master.id. Default should correspond to 'draft'. Version 3.1."

},

"published\_at": {

"type": ["string", "null"],

"format": "date-time",

"description": "Timestamp when the itinerary was first published. Version 3.1."

},

"is\_featured\_itinerary": {

"type": "boolean",

"default": false,

"description": "Flag to highlight this itinerary. Version 3.1."

},

"version\_notes": {

"type": ["string", "null"],

"description": "Notes about the current version or recent significant changes. Version 3.1."

},

"summary\_stats\_last\_calculated\_at": {

"type": ["string", "null"],

"format": "date-time",

"description": "If distance/days are calculated, when they were last updated. Version 3.1."

},

"data\_last\_verified\_at": {

"type": ["string", "null"],

"format": "date-time",

"description": "When the overall itinerary content was last editorially reviewed. Version 3.1."

},

"created\_at": {

"type": "string",

"format": "date-time",

"readOnly": true,

"description": "Timestamp of creation. Read-only. Version 3.1."

},

"updated\_at": {

"type": "string",

"format": "date-time",

"readOnly": true,

"description": "Timestamp of last update. Read-only. Version 3.1."

},

"updated\_by\_profile\_id": {

"type": ["string", "null"],

"format": "uuid",

"description": "Profile ID of user who last updated this record. FK to public.profiles.id. Read-only. Version 3.1.",

"readOnly": true

},

"deleted\_at": {

"type": ["string", "null"],

"format": "date-time",

"readOnly": true,

"description": "For soft deletion. If set, the itinerary is considered deleted. Read-only. Version 3.1."

}

},

"required": [

"name",

"slug",

"content\_status\_id",

"is\_featured\_itinerary",

"created\_at",

"updated\_at"

],

"primary\_key": ["id"],

"unique\_constraints": [

{"columns": ["slug"], "name": "curated\_itineraries\_slug\_key"},

{"columns": ["itinerary\_code"], "name": "curated\_itineraries\_itinerary\_code\_key"},

{"columns": ["trail\_id", "name"], "name": "curated\_itineraries\_trail\_id\_name\_key"}

]

}

```

6\. Relationships & Integrity

- Foreign Key Targets & `ON DELETE` Actions:

- `primary\_trail\_id` -> `public.trails(id)`: `ON DELETE SET NULL`.

- `based\_on\_primary\_route\_id` -> `public.routes(id)`: `ON DELETE SET NULL`.

- `start\_waypoint\_id\_approx` -> `public.waypoints(id)`: `ON DELETE SET NULL`.

- `end\_waypoint\_id\_approx` -> `public.waypoints(id)`: `ON DELETE SET NULL`.

- `banner\_image\_media\_id` -> `public.media(id)`: `ON DELETE SET NULL`.

- `map\_overview\_image\_media\_id` -> `public.media(id)`: `ON DELETE SET NULL`.

- `created\_by\_profile\_id` -> `public.profiles(id)`: `ON DELETE SET NULL`.

- `updated\_by\_profile\_id` -> `public.profiles(id)`: `ON DELETE SET NULL`.

- `overall\_difficulty\_level\_id` -> `public.trail\_difficulty\_levels\_master(id)`: `ON DELETE SET NULL`.

- `content\_status\_id` -> `public.content\_statuses\_master(id)`: `ON DELETE RESTRICT`.

- Junction Tables: Links to `itinerary\_categories\_master` (via `curated\_itinerary\_to\_category`) and `seasons\_master` (via `curated\_itinerary\_to\_season`). These junction tables have `ON DELETE CASCADE` for `itinerary\_id` and `ON DELETE RESTRICT` for `category\_id`/`season\_id`.

- Unique Constraints: `slug` (globally), `itinerary\_code` (globally, when not NULL), `(trail\_id, name)` (name unique within a trail).

- Mermaid ER Snippet:

Code snippet

```

erDiagram

curated\_itineraries {

bigint id PK

text name

text slug UK

text itinerary\_code "UK (if NOT NULL)"

bigint primary\_trail\_id FK

bigint based\_on\_primary\_route\_id FK

integer overall\_difficulty\_level\_id FK

uuid banner\_image\_media\_id FK

uuid map\_overview\_image\_media\_id FK

uuid created\_by\_profile\_id FK

integer content\_status\_id FK

uuid updated\_by\_profile\_id FK

timestamptz deleted\_at

UNIQUE (trail\_id, name)

}

trails { bigint id PK }

routes { bigint id PK }

waypoints { bigint id PK }

media { uuid id PK }

profiles { uuid id PK }

trail\_difficulty\_levels\_master { integer id PK }

content\_statuses\_master { integer id PK }

itinerary\_categories\_master { integer id PK }

seasons\_master { integer id PK }

curated\_itinerary\_to\_category { bigint itinerary\_id PK FK; integer category\_id PK FK }

curated\_itinerary\_to\_season { bigint itinerary\_id PK FK; integer season\_id PK FK }

curated\_itineraries }o--|| trails : "primary\_trail\_id (SET NULL)"

curated\_itineraries }o--|| routes : "based\_on\_primary\_route\_id (SET NULL)"

curated\_itineraries }o--|| waypoints : "start\_waypoint\_id\_approx (SET NULL)"

curated\_itineraries }o--|| waypoints : "end\_waypoint\_id\_approx (SET NULL)"

curated\_itineraries }o--|| media : "banner\_image\_media\_id (SET NULL)"

curated\_itineraries }o--|| media : "map\_overview\_image\_media\_id (SET NULL)"

curated\_itineraries }o--|| profiles : "created\_by\_profile\_id (SET NULL)"

curated\_itineraries }o--|| profiles : "updated\_by\_profile\_id (SET NULL)"

curated\_itineraries }o--|| trail\_difficulty\_levels\_master : "difficulty (SET NULL)"

curated\_itineraries }o--|| content\_statuses\_master : "status (RESTRICT)"

curated\_itineraries ||--o{ curated\_itinerary\_to\_category : "has categories (CASCADE)"

itinerary\_categories\_master ||--o{ curated\_itinerary\_to\_category : "categorizes (RESTRICT)"

curated\_itineraries ||--o{ curated\_itinerary\_to\_season : "has seasons (CASCADE)"

seasons\_master ||--o{ curated\_itinerary\_to\_season : "applies to (RESTRICT)"

```

7\. Multilingual Strategy

- Translatable Fields: `name`, `short\_description`, `long\_description`, `theme\_or\_focus`, `suitability\_notes`, `primary\_start\_location\_text`, `primary\_end\_location\_text`. These store the base language (English).

- Translations are managed in `public.translations` table linked by `table\_identifier = 'curated\_itineraries'`, `column\_identifier`, and `row\_foreign\_key = curated\_itineraries.id::TEXT`. An `AFTER DELETE` trigger handles orphan cleanup.

8\. Role-Based Workflow & RLS Notes

- Workflow Fields: `created\_by\_profile\_id`, `content\_status\_id` (FK to `content\_statuses\_master`), `published\_at`, `data\_last\_verified\_at`.

- RLS Policies (Conceptual):

- Admins: Full CRUD using helper `public.is\_claims\_admin()` or similar.

- Regional Content Managers: Update access for itineraries they created and are in 'DRAFT' status.

- Authenticated/Anonymous Users: `SELECT` access for itineraries where `deleted\_at IS NULL` and `content\_status\_id` corresponds to 'PUBLISHED'.

9\. ENUM vs Lookup Discussion

- `overall\_difficulty\_level\_id`: FK to `public.trail\_difficulty\_levels\_master`. ✅

- `content\_status\_id`: FK to `public.content\_statuses\_master`. ✅

- Categories and Seasons are managed via junction tables to their respective master tables. ✅

10\. UI/UX Enablement

- Filters & Display: `name`, `slug`, `short\_description`, `theme\_or\_focus`, `total\_walking\_days\_approx`, `total\_distance\_km\_approx`, `overall\_difficulty\_level\_id` (joined), `content\_status\_id` (joined), `is\_featured\_itinerary`. Categories and Seasons via joins.

- Performance: Indexes on FKs, `slug`, `content\_status\_id`.

11\. Auditing & Lifecycle Management

- Audit Columns: `created\_at`, `updated\_at`, `created\_by\_profile\_id`, `updated\_by\_profile\_id`.

- Soft Deletes: `deleted\_at` timestamp.

- Lifecycle: `content\_status\_id` manages publication states.

12\. Scalability & Future-Proofing

- `id` as `bigint`. Soft deletion and audit columns present.

- V2+ considerations for calculated summary statistics remain.

13\. Seed Data

- ⚪ N/A for `curated\_itineraries` itself, as it's transactional/editorial content. Seed data required for FK targets like `trail\_difficulty\_levels\_master` and `content\_statuses\_master`.

14\. Next-Action Checklist

- 🔴 Implement DDL: Execute the updated `CREATE TABLE` DDL for `public.curated\_itineraries`, ensuring correct FK types and all constraints.

- 🔴 Implement Audit Trigger: Create and apply `public.set\_curated\_itinerary\_audit\_meta`.

- 🔴 Implement Orphaned Translation Cleanup Trigger: Create and apply `public.cleanup\_curated\_itineraries\_translations`.

- 🟠 Default `content\_status\_id`: Implement logic (application or DB trigger) to set `content\_status\_id` to 'DRAFT' equivalent on new record creation.

- 🟠 Slug Generation: Implement logic for `slug` generation (application or DB trigger).

- 🟠 Implement RLS Policies: Define and test all RLS policies and helper functions.

- 🟢 Data Migration: If applicable, migrate data from any old structures, populating new FKs and audit columns.

- 🟢 Update Backend & UI: Refactor application logic and admin interfaces to use the new structure.

- 🟢 Documentation: Update all relevant documentation.