<https://gemini.google.com/u/1/app/21b8e85b3e611787>

New View Spec: v\_meal\_services\_localized

### **1. View Name**

public.v\_meal\_services\_localized

### **2. Purpose & Primary Use-Cases**

* **Purpose**: To provide a consolidated and denormalized view of meal\_services\_master records, including all their available translations for name and description fields in a structured JSONB format, alongside all other master table attributes.
* **Primary Use-Cases**:
  + Simplify API development by providing a single source for a meal service and all its translations.
  + Support API endpoints that list meal services or display details for a specific meal service where multilingual representation is required (e.g., for showing meal options offered by accommodations).
  + Facilitate easier data fetching for frontend components that need to display localized meal service information.

### **3. View Schema (Columns)**

| **Column** | **Data Type** | **Description** |
| --- | --- | --- |
| id | integer | Inherited from meal\_services\_master. Unique identifier for the meal service. |
| code | text | Inherited from meal\_services\_master. Short, stable, machine-readable code (e.g., 'BREAKFAST\_AVAILABLE'). |
| name | text | Inherited from meal\_services\_master. Primary reference language (English) name for the meal service. |
| description | text | Inherited from meal\_services\_master. Optional primary reference language (English) description of the meal service. |
| icon\_identifier | text | Inherited from meal\_services\_master. Name, class, or path for a UI icon. |
| sort\_order | integer | Inherited from meal\_services\_master. Determines display order in UI lists. |
| is\_active | boolean | Inherited from meal\_services\_master. True if the meal service is active and available for use. |
| created\_at | timestamp with time zone | Inherited from meal\_services\_master. Timestamp of record creation. |
| updated\_at | timestamp with time zone | Inherited from meal\_services\_master. Timestamp of last update. |
| created\_by\_profile\_id | uuid | Inherited from meal\_services\_master. Profile ID of the user/admin who created this record. |
| updated\_by\_profile\_id | uuid | Inherited from meal\_services\_master. Profile ID of the user/admin who last updated this record. |
| all\_translations | jsonb | A JSONB object containing all available translations for name and description, keyed by language code. Example: {"en": {"name": "...", "description": "..."}, "it": {"name": "...", "description": "..."}}. Includes primary English text if present in translations table. |

### **4. Underlying SQL Definition**

SQL

* CREATE OR REPLACE VIEW public.v\_meal\_services\_localized AS
* SELECT
* msm.id,
* msm.code,
* msm.name, -- Primary English name
* msm.description, -- Primary English description
* msm.icon\_identifier,
* msm.sort\_order,
* msm.is\_active,
* msm.created\_at,
* msm.updated\_at,
* msm.created\_by\_profile\_id,
* msm.updated\_by\_profile\_id,
* (
* SELECT
* jsonb\_object\_agg(
* tr.language\_code,
* jsonb\_build\_object(
* 'name', MAX(CASE WHEN tr.column\_identifier = 'name' THEN tr.translated\_text ELSE NULL END),
* 'description', MAX(CASE WHEN tr.column\_identifier = 'description' THEN tr.translated\_text ELSE NULL END)
* )
* )
* FROM public.translations tr
* WHERE
* tr.table\_identifier = 'meal\_services\_master'
* AND tr.row\_foreign\_key = msm.id::TEXT
* GROUP BY tr.row\_foreign\_key
* ) AS all\_translations
* FROM
* public.meal\_services\_master msm;
* COMMENT ON VIEW public.v\_meal\_services\_localized IS 'Provides meal services with their base English fields and a JSONB column "all\_translations" containing all available name and description translations keyed by language code. Version 1.0';
* COMMENT ON COLUMN public.v\_meal\_services\_localized.name IS 'Primary reference language (English) name from meal\_services\_master.';
* COMMENT ON COLUMN public.v\_meal\_services\_localized.description IS 'Primary reference language (English) description from meal\_services\_master.';
* COMMENT ON COLUMN public.v\_meal\_services\_localized.all\_translations IS 'JSONB object with all translations for name and description, keyed by language code. E.g., {"en": {"name": "...", "description": "..."}, "it": {"name": "...", "description": "..."}}. Base English text from master table should be merged by application/API layer if not also present in translations table with code ''en''.';

### **5. Key Dependencies**

* public.meal\_services\_master (Version 1.4 or later, which includes is\_active and audit columns)
* public.translations (Version 2.1 or later)

### **6. Performance Considerations**

* The subquery using jsonb\_object\_agg can be resource-intensive without proper indexing on public.translations.
* **Required Index on** public.translations: A composite index on (table\_identifier, row\_foreign\_key, language\_code, column\_identifier) is crucial. (Assumed to be idx\_translations\_lookup\_multi\_col).
* Queries on this view filtering by is\_active will benefit from the idx\_msm\_is\_active index on meal\_services\_master.
* For very high-read scenarios, a materialized view could be a V2+ optimization.

### **7. RLS & Security Notes**

* RLS policies from public.meal\_services\_master (e.g., filtering by is\_active = true) will be inherited by this view.
* Access to public.translations is assumed if a user can see the master record.
* Define with SECURITY INVOKER (default for views).

### **8. API Endpoints Supported (Conceptual)**

* GET /meta/meal-services?lang=it: List all active meal services with translations.
* GET /meta/meal-services/{service\_code}: Get a specific meal service with translations.
* Used by accommodation-related endpoints to list available meal services with localized details.

### **9. Rationale for Creation**

* Decouples API data retrieval from complex translation join/aggregation logic.
* Provides a consistent, denormalized structure for accessing localized meal service content.
* Improves query readability and maintainability for developers.

### **10. Key Considerations & Definitions**

* **Primary Language Fallback**: The API/application layer needs to handle fallback to primary English fields if a translation for a requested language is not available in all\_translations.
* **Data Freshness**: As a standard view, it reflects the current state.

### **11. Scalability & Future-Proofing**

* Performance depends on translations table indexing.
* Adding new translatable fields to meal\_services\_master would require updating this view definition.

### **12. Next-Action Checklist**

* 🔴 **Create View**: Execute the DDL to create public.v\_meal\_services\_localized.
* 🔴 **Verify Index on** translations: Ensure the recommended composite index on public.translations exists.
* 🟠 **API Layer Integration**: Plan API consumption of this view.
* 🟢 **Testing**: Test view performance.
* 🟢 **Documentation**: Document this view.