

Output Hub SQL DDL V7

22.09.2024

-- Create schema

```
CREATE SCHEMA IF NOT EXISTS public;
```

-- Create sequences

```
CREATE SEQUENCE IF NOT EXISTS public.global_id_seq;
```

-- Create users table

```
CREATE TABLE public.users (  
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),  
    username VARCHAR(255) NOT NULL UNIQUE,  
    email VARCHAR(255) NOT NULL UNIQUE,  
    password_hash VARCHAR(255) NOT NULL,  
    is_active BOOLEAN NOT NULL DEFAULT TRUE,  
    created_at TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp,  
    updated_at TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp  
);
```

```
COMMENT ON TABLE public.users IS 'Stores user information';
```

-- Create all lookup tables with consistent fields and UNIQUE constraints

```
CREATE TABLE public.accessui (  
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),  
    ui_name VARCHAR(255) NOT NULL UNIQUE,  
    description TEXT,  
    date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp  
);
```

```
COMMENT ON TABLE public.accessui IS 'Stores different user interface  
access levels';
```

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```
CREATE TABLE public.accuracylevels (  
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),  
    accuracy_level VARCHAR(255) NOT NULL UNIQUE,  
    description TEXT,  
    date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp  
);  
  
COMMENT ON TABLE public.accuracylevels IS 'Defines levels of accuracy for  
assessments';  
  
CREATE TABLE public.actionability_levels (  
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),  
    actionability_level VARCHAR(255) NOT NULL UNIQUE,  
    description TEXT,  
    date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp  
);  
  
COMMENT ON TABLE public.actionability_levels IS 'Defines levels of  
actionability for outputs';  
  
CREATE TABLE public.activitystatus (  
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),  
    status_name VARCHAR(255) NOT NULL UNIQUE,  
    description TEXT,  
    date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp  
);  
  
COMMENT ON TABLE public.activitystatus IS 'Stores possible activity  
statuses';
```

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```
CREATE TABLE public.agentgroups (  
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),  
    group_name VARCHAR(255) NOT NULL UNIQUE,  
    description TEXT,  
    date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp  
);  
  
COMMENT ON TABLE public.agentgroups IS 'Defines groups of agents';  
  
CREATE TABLE public.apiintegrations (  
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),  
    integration_name VARCHAR(255) NOT NULL UNIQUE,  
    description TEXT,  
    date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp  
);  
  
COMMENT ON TABLE public.apiintegrations IS 'Stores information about API  
integrations';  
  
CREATE TABLE public.automation_levels (  
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),  
    automation_level VARCHAR(255) NOT NULL UNIQUE,  
    description TEXT,  
    date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp  
);  
  
COMMENT ON TABLE public.automation_levels IS 'Defines levels of  
automation';
```

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```
CREATE TABLE public.backupstatuses (  
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),  
    status_name VARCHAR(255) NOT NULL UNIQUE,  
    description TEXT,  
    date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp  
);  
  
COMMENT ON TABLE public.backupstatuses IS 'Stores possible backup  
statuses';  
  
CREATE TABLE public.business_system_tags (  
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),  
    tag_name VARCHAR(255) NOT NULL UNIQUE,  
    description TEXT,  
    date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp  
);  
  
COMMENT ON TABLE public.business_system_tags IS 'Stores tags for business  
systems';  
  
CREATE TABLE public.cc_license_types (  
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),  
    license_type VARCHAR(255) NOT NULL UNIQUE,  
    description TEXT,  
    date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp  
);  
  
COMMENT ON TABLE public.cc_license_types IS 'Stores types of Creative  
Commons licenses';
```

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```
CREATE TABLE public.chatgpt_output_formats (  
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),  
    format_name VARCHAR(255) NOT NULL UNIQUE,  
    description TEXT,  
    date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp  
);  
  
COMMENT ON TABLE public.chatgpt_output_formats IS 'Defines output formats  
for ChatGPT';  
  
CREATE TABLE public.citiesinisrael (  
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),  
    city_name VARCHAR(255) NOT NULL UNIQUE,  
    description TEXT,  
    date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp  
);  
  
COMMENT ON TABLE public.citiesinisrael IS 'List of cities in Israel';  
  
CREATE TABLE public.cost_levels (  
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),  
    cost_level VARCHAR(255) NOT NULL UNIQUE,  
    description TEXT,  
    date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp  
);  
  
COMMENT ON TABLE public.cost_levels IS 'Defines levels of cost';  
  
CREATE TABLE public.creation_account (  
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),
```

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```
account_name VARCHAR(255) NOT NULL UNIQUE,
account_email VARCHAR(255) NOT NULL UNIQUE,
description TEXT,
date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp
);
COMMENT ON TABLE public.creation_account IS 'Stores information about
creation accounts';

CREATE TABLE public.customgptlibraries (
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),
    library_name VARCHAR(255) NOT NULL UNIQUE,
    description TEXT,
    date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp
);
COMMENT ON TABLE public.customgptlibraries IS 'Stores custom GPT
libraries';

CREATE TABLE public.data_retention_plans (
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),
    plan_name VARCHAR(255) NOT NULL UNIQUE,
    description TEXT,
    date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp
);
COMMENT ON TABLE public.data_retention_plans IS 'Defines data retention
plans';

CREATE TABLE public.data_sensitivity_levels (
```

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```
id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),
sensitivity_level VARCHAR(255) NOT NULL UNIQUE,
description TEXT,
date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp
);

COMMENT ON TABLE public.data_sensitivity_levels IS 'Defines levels of
data sensitivity';

CREATE TABLE public.data_sharing_groups (
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),
    group_name VARCHAR(255) NOT NULL UNIQUE,
    description TEXT,
    date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp
);

COMMENT ON TABLE public.data_sharing_groups IS 'Defines groups for data
sharing';

CREATE TABLE public.data_size_classifiers (
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),
    classifier_name VARCHAR(255) NOT NULL UNIQUE,
    description TEXT,
    date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp
);

COMMENT ON TABLE public.data_size_classifiers IS 'Classifies data sizes';

CREATE TABLE public.data_source_classifiers (
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),
```

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```
classifier_name VARCHAR(255) NOT NULL UNIQUE,
description TEXT,
date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp
);
COMMENT ON TABLE public.data_source_classifiers IS 'Classifies data
sources';

CREATE TABLE public.data_types (
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),
    type_name VARCHAR(255) NOT NULL UNIQUE,
    description TEXT,
    date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp
);
COMMENT ON TABLE public.data_types IS 'Defines types of data';

CREATE TABLE public.data_viz_formats (
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),
    format_name VARCHAR(255) NOT NULL UNIQUE,
    description TEXT,
    date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp
);
COMMENT ON TABLE public.data_viz_formats IS 'Defines formats for data
visualization';

CREATE TABLE public.experimentation_methodologies (
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),
    methodology_name VARCHAR(255) NOT NULL UNIQUE,
```


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```
description TEXT,  
date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp  
);
```

```
COMMENT ON TABLE public.experimentation_methodologies IS 'Defines  
methodologies for experimentation';
```

```
CREATE TABLE public.file_formats (  
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),  
    format_name VARCHAR(255) NOT NULL UNIQUE,  
    description TEXT,  
    date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp  
);
```

```
COMMENT ON TABLE public.file_formats IS 'Defines file formats';
```

```
CREATE TABLE public.followup_activities (  
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),  
    activity_name VARCHAR(255) NOT NULL UNIQUE,  
    description TEXT,  
    date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp  
);
```

```
COMMENT ON TABLE public.followup_activities IS 'Defines follow-up  
activities';
```

```
CREATE TABLE public.github_plans (  
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),  
    plan_name VARCHAR(255) NOT NULL UNIQUE,  
    description TEXT,
```

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```
        date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp
    );
COMMENT ON TABLE public.github_plans IS 'Defines GitHub plans';

CREATE TABLE public.gpt_platforms (
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),
    platform_name VARCHAR(255) NOT NULL UNIQUE,
    description TEXT,
    date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp
);
COMMENT ON TABLE public.gpt_platforms IS 'Defines GPT platforms';

CREATE TABLE public.gpt_privacy_settings (
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),
    setting_name VARCHAR(255) NOT NULL UNIQUE,
    description TEXT,
    date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp
);
COMMENT ON TABLE public.gpt_privacy_settings IS 'Defines privacy settings
for GPTs';

CREATE TABLE public.gpt_tags (
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),
    tag_name VARCHAR(255) NOT NULL UNIQUE,
    description TEXT,
    date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp
);
```

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```
COMMENT ON TABLE public.gpt_tags IS 'Defines tags for GPTs';
```

```
CREATE TABLE public.gpt_tasks (  
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),  
    task_name VARCHAR(255) NOT NULL UNIQUE,  
    description TEXT,  
    date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp  
);
```

```
COMMENT ON TABLE public.gpt_tasks IS 'Defines tasks for GPTs';
```

```
CREATE TABLE public.gptcapabilities (  
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),  
    capability_name VARCHAR(255) NOT NULL UNIQUE,  
    description TEXT,  
    date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp  
);
```

```
COMMENT ON TABLE public.gptcapabilities IS 'Defines capabilities of  
GPTs';
```

```
CREATE TABLE public.gptconfigtypes (  
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),  
    config_type_name VARCHAR(255) NOT NULL UNIQUE,  
    description TEXT,  
    date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp  
);
```

```
COMMENT ON TABLE public.gptconfigtypes IS 'Defines configuration types  
for GPTs';
```

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```
CREATE TABLE public.gptmodels (  
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),  
    model_name VARCHAR(255) NOT NULL UNIQUE,  
    description TEXT,  
    date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp  
);  
  
COMMENT ON TABLE public.gptmodels IS 'Defines GPT models';  
  
CREATE TABLE public.gptoutputreviewsdone (  
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),  
    review_name VARCHAR(255) NOT NULL UNIQUE,  
    description TEXT,  
    date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp  
);  
  
COMMENT ON TABLE public.gptoutputreviewsdone IS 'Tracks reviews done on  
GPT outputs';  
  
CREATE TABLE public.gptrings (  
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),  
    rating_name VARCHAR(255) NOT NULL UNIQUE,  
    description TEXT,  
    date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp  
);  
  
COMMENT ON TABLE public.gptrings IS 'Defines ratings for GPTs';  
  
CREATE TABLE public.gptresponsetimes (  
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),  
    response_name VARCHAR(255) NOT NULL UNIQUE,  
    description TEXT,  
    date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp  
);  
  
COMMENT ON TABLE public.gptresponsetimes IS 'Tracks response times for GPTs';
```

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```
id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),
response_time_name VARCHAR(255) NOT NULL UNIQUE,
description TEXT,
date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp
);
COMMENT ON TABLE public.gptresponsetimes IS 'Defines response time
categories for GPTs';

CREATE TABLE public.gptreviewstatuses (
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),
    status_name VARCHAR(255) NOT NULL UNIQUE,
    description TEXT,
    date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp
);
COMMENT ON TABLE public.gptreviewstatuses IS 'Defines review statuses for
GPTs';

CREATE TABLE public.gpts_cats (
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),
    category_name VARCHAR(255) NOT NULL UNIQUE,
    description TEXT,
    date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp
);
COMMENT ON TABLE public.gpts_cats IS 'Defines categories for GPTs';

CREATE TABLE public.gptsoftwareplatforms (
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),
```

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```
platform_name VARCHAR(255) NOT NULL UNIQUE,
description TEXT,
date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp
);
COMMENT ON TABLE public.gptsoftwareplatforms IS 'Defines software
platforms for GPTs';

CREATE TABLE public.industries_list (
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),
    industry_name VARCHAR(255) NOT NULL UNIQUE,
    description TEXT,
    date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp
);
COMMENT ON TABLE public.industries_list IS 'List of industries';

CREATE TABLE public.knowledge_types (
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),
    knowledge_type_name VARCHAR(255) NOT NULL UNIQUE,
    description TEXT,
    date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp
);
COMMENT ON TABLE public.knowledge_types IS 'Defines types of knowledge';

CREATE TABLE public.llms_list (
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),
    llm_name VARCHAR(255) NOT NULL UNIQUE,
    description TEXT,
```

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```
    date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp
);
```

```
COMMENT ON TABLE public.llms_list IS 'List of Language Models';
```

```
CREATE TABLE public.mdconversionstatus (
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),
    status_name VARCHAR(255) NOT NULL UNIQUE,
    description TEXT,
    date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp
);
```

```
COMMENT ON TABLE public.mdconversionstatus IS 'Defines statuses for
Markdown conversion';
```

```
CREATE TABLE public.mediatypes (
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),
    media_type_name VARCHAR(255) NOT NULL UNIQUE,
    description TEXT,
    date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp
);
```

```
COMMENT ON TABLE public.mediatypes IS 'Defines types of media';
```

```
CREATE TABLE public.opensource_licenses (
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),
    license_name VARCHAR(255) NOT NULL UNIQUE,
    description TEXT,
    date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp
);
```

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```
COMMENT ON TABLE public.opensource_licenses IS 'Defines open source licenses';
```

```
CREATE TABLE public.output_types (  
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),  
    output_type_name VARCHAR(255) NOT NULL UNIQUE,  
    description TEXT,  
    date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp  
);
```

```
COMMENT ON TABLE public.output_types IS 'Defines types of output';
```

```
CREATE TABLE public.outputqualityassessment (  
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),  
    assessment_name VARCHAR(255) NOT NULL UNIQUE,  
    description TEXT,  
    date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp  
);
```

```
COMMENT ON TABLE public.outputqualityassessment IS 'Defines quality assessment categories for outputs';
```

```
CREATE TABLE public.post_prompt_actions (  
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),  
    action_name VARCHAR(255) NOT NULL UNIQUE,  
    description TEXT,  
    date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp  
);
```

```
COMMENT ON TABLE public.post_prompt_actions IS 'Defines actions to be taken after prompts';
```


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```
CREATE TABLE public.programminglanguages (  
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),  
    language_name VARCHAR(255) NOT NULL UNIQUE,  
    description TEXT,  
    date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp  
);  
  
COMMENT ON TABLE public.programminglanguages IS 'List of programming  
languages';  
  
CREATE TABLE public.project_tags (  
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),  
    tag_name VARCHAR(255) NOT NULL UNIQUE,  
    description TEXT,  
    date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp  
);  
  
COMMENT ON TABLE public.project_tags IS 'Defines tags for projects';  
  
CREATE TABLE public.promptstages (  
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),  
    stage_name VARCHAR(255) NOT NULL UNIQUE,  
    description TEXT,  
    date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp  
);  
  
COMMENT ON TABLE public.promptstages IS 'Defines stages of prompts';  
  
CREATE TABLE public.publication_platforms (  
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),  
    platform_name VARCHAR(255) NOT NULL UNIQUE,  
    description TEXT,  
    date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp  
);  
  
COMMENT ON TABLE public.publication_platforms IS 'Defines platforms for publication';
```

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```
id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),
platform_name VARCHAR(255) NOT NULL UNIQUE,
description TEXT,
date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp
);

COMMENT ON TABLE public.publication_platforms IS 'Defines platforms for
publication';

CREATE TABLE public.qc_activities (
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),
    activity_name VARCHAR(255) NOT NULL UNIQUE,
    description TEXT,
    date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp
);

COMMENT ON TABLE public.qc_activities IS 'Defines quality control
activities';

CREATE TABLE public.reading_levels (
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),
    level_name VARCHAR(255) NOT NULL UNIQUE,
    description TEXT,
    date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp
);

COMMENT ON TABLE public.reading_levels IS 'Defines reading levels';

CREATE TABLE public.reference_sources (
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),
```

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```
source_name VARCHAR(255) NOT NULL UNIQUE,
description TEXT,
date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp
);
COMMENT ON TABLE public.reference_sources IS 'Defines sources of
references';

CREATE TABLE public.relationdb_techs (
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),
    tech_name VARCHAR(255) NOT NULL UNIQUE,
    description TEXT,
    date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp
);
COMMENT ON TABLE public.relationdb_techs IS 'Defines relational database
technologies';

CREATE TABLE public.review_priority_levels (
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),
    priority_level_name VARCHAR(255) NOT NULL UNIQUE,
    description TEXT,
    date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp
);
COMMENT ON TABLE public.review_priority_levels IS 'Defines priority
levels for reviews';

CREATE TABLE public.review_statuses (
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),
```

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```
status_name VARCHAR(255) NOT NULL UNIQUE,
description TEXT,
date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp
);
COMMENT ON TABLE public.review_statuses IS 'Defines statuses for
reviews';

CREATE TABLE public.saas_sub_models (
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),
    model_name VARCHAR(255) NOT NULL UNIQUE,
    description TEXT,
    date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp
);
COMMENT ON TABLE public.saas_sub_models IS 'Defines SaaS subscription
models';

CREATE TABLE public.sentiment_classifiers (
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),
    classifier_name VARCHAR(255) NOT NULL UNIQUE,
    description TEXT,
    date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp
);
COMMENT ON TABLE public.sentiment_classifiers IS 'Defines sentiment
classifiers';

CREATE TABLE public.system_unique_ids (
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),
```

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```
unique_id_name VARCHAR(255) NOT NULL UNIQUE,
description TEXT,
date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp
);
COMMENT ON TABLE public.system_unique_ids IS 'Defines unique identifiers
for systems';

CREATE TABLE public.systemmodules (
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),
    module_name VARCHAR(255) NOT NULL UNIQUE,
    description TEXT,
    date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp
);
COMMENT ON TABLE public.systemmodules IS 'Defines system modules';

CREATE TABLE public.tabletypes (
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),
    table_type_name VARCHAR(255) NOT NULL UNIQUE,
    description TEXT,
    date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp
);
COMMENT ON TABLE public.tabletypes IS 'Defines types of tables';

CREATE TABLE public.targetaudiences (
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),
    audience_name VARCHAR(255) NOT NULL UNIQUE,
    description TEXT,
```

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```
    date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp
);
COMMENT ON TABLE public.targetaudiences IS 'Defines target audiences';

CREATE TABLE public.taxonomy_organisation (
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),
    organisation_name VARCHAR(255) NOT NULL UNIQUE,
    description TEXT,
    date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp
);
COMMENT ON TABLE public.taxonomy_organisation IS 'Defines taxonomy
organizations';

CREATE TABLE public.urgency_levels (
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),
    urgency_level_name VARCHAR(255) NOT NULL UNIQUE,
    description TEXT,
    date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp
);
COMMENT ON TABLE public.urgency_levels IS 'Defines levels of urgency';

CREATE TABLE public.usecases (
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),
    usecase_name VARCHAR(255) NOT NULL UNIQUE,
    description TEXT,
    date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp
);
```

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```
COMMENT ON TABLE public.usecases IS 'Defines use cases';
```

```
CREATE TABLE public.userfeedback_types (  
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),  
    feedback_type_name VARCHAR(255) NOT NULL UNIQUE,  
    description TEXT,  
    date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp  
);
```

```
COMMENT ON TABLE public.userfeedback_types IS 'Defines types of user  
feedback';
```

```
CREATE TABLE public.userroles (  
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),  
    role_name VARCHAR(255) NOT NULL UNIQUE,  
    description TEXT,  
    date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp  
);
```

```
COMMENT ON TABLE public.userroles IS 'Defines user roles';
```

```
CREATE TABLE public.worldcountries (  
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),  
    country_name VARCHAR(255) NOT NULL UNIQUE,  
    description TEXT,  
    date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp  
);
```

```
COMMENT ON TABLE public.worldcountries IS 'List of countries in the  
world';
```

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```
CREATE TABLE public.worldlanguages (  
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),  
    language_name VARCHAR(255) NOT NULL UNIQUE,  
    description TEXT,  
    date_created TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp  
);  
  
COMMENT ON TABLE public.worldlanguages IS 'List of world languages';  
  
-- Create main tables  
  
CREATE TABLE public.custom_gpts (  
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),  
    user_id INTEGER NOT NULL REFERENCES public.users (id) ON DELETE  
CASCADE,  
    gpt_name TEXT NOT NULL,  
    config_text TEXT,  
    link VARCHAR(255),  
    importance INTEGER NOT NULL,  
    is_gpt_optimised BOOLEAN NOT NULL DEFAULT FALSE,  
    summary TEXT,  
    version INTEGER NOT NULL DEFAULT 1,  
    is_active BOOLEAN NOT NULL DEFAULT TRUE,  
    created_at TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp,  
    updated_at TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp,  
    created_by INTEGER REFERENCES public.users (id),  
    updated_by INTEGER REFERENCES public.users (id),  
    access_ui_id INTEGER NOT NULL REFERENCES public.accessui (id) ON  
DELETE CASCADE,
```


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```
        activity_status_id INTEGER NOT NULL REFERENCES public.activitystatus
(id) ON DELETE CASCADE,
        creation_account_id INTEGER NOT NULL REFERENCES
public.creation_account (id) ON DELETE CASCADE,
        configuration_type_id INTEGER NOT NULL REFERENCES
public.gptconfigtypes (id) ON DELETE CASCADE,
        gpt_model_id INTEGER NOT NULL REFERENCES public.gptmodels (id) ON
DELETE CASCADE,
        gpt_rating_id INTEGER REFERENCES public.gptrings (id) ON DELETE SET
NULL,
        github_release_status_id INTEGER REFERENCES public.github_plans (id)
ON DELETE SET NULL,
        underlying_llm_id INTEGER REFERENCES public.llms_list (id) ON DELETE
SET NULL,
        CONSTRAINT check_importance CHECK (importance >= 0 AND importance <=
10),
        UNIQUE (user_id, gpt_name, version)
);
COMMENT ON TABLE public.custom_gpts IS 'Stores information about custom
GPT models';
COMMENT ON COLUMN public.custom_gpts.gpt_name IS 'Name of the custom
GPT';
COMMENT ON COLUMN public.custom_gpts.importance IS 'Importance rating
from 0 to 10';
COMMENT ON COLUMN public.custom_gpts.version IS 'Version number of the
custom GPT';
```

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```
CREATE TABLE public.prompt_library (  
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),  
    user_id INTEGER NOT NULL REFERENCES public.users (id) ON DELETE  
CASCADE,  
    prompt_text TEXT NOT NULL,  
    is_engineered BOOLEAN NOT NULL DEFAULT FALSE,  
    rating INTEGER,  
    display_in_library BOOLEAN NOT NULL DEFAULT TRUE,  
    notes_for_improvement TEXT,  
    limitations TEXT,  
    usecase_notes TEXT,  
    data_sensitivity_notes TEXT,  
    prompt_success_stories TEXT,  
    prompt_failures TEXT,  
    prompt_benchmarking TEXT,  
    prompt_refinement_history TEXT,  
    planned_enhancements TEXT,  
    description TEXT,  
    summary VARCHAR(255),  
    version INTEGER NOT NULL DEFAULT 1,  
    is_active BOOLEAN NOT NULL DEFAULT TRUE,  
    created_at TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp,  
    updated_at TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp,  
    created_by INTEGER REFERENCES public.users (id),  
    updated_by INTEGER REFERENCES public.users (id),  
    CONSTRAINT check_rating CHECK (rating >= 0 AND rating <= 5),  
    UNIQUE (user_id, prompt_text, version)
```

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```
);  
  
COMMENT ON TABLE public.prompt_library IS 'Stores prompts used with  
custom GPTs';  
  
COMMENT ON COLUMN public.prompt_library.prompt_text IS 'The actual text  
of the prompt';  
  
COMMENT ON COLUMN public.prompt_library.rating IS 'Rating of the prompt  
from 0 to 5';  
  
COMMENT ON COLUMN public.prompt_library.version IS 'Version number of the  
prompt';  
  
CREATE TABLE public.prompt_outputs (  
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),  
    user_id INTEGER NOT NULL REFERENCES public.users (id) ON DELETE  
CASCADE,  
    output TEXT NOT NULL,  
    prompt_used TEXT NOT NULL,  
    is_active BOOLEAN NOT NULL DEFAULT TRUE,  
    created_at TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp,  
    updated_at TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp,  
    created_by INTEGER REFERENCES public.users (id),  
    updated_by INTEGER REFERENCES public.users (id),  
    md_conversion_status_id INTEGER REFERENCES public.mdconversionstatus  
(id) ON DELETE SET NULL,  
    accuracy_assessment_id INTEGER REFERENCES public.accuracylevels (id)  
ON DELETE SET NULL,  
    actionability_id INTEGER REFERENCES public.actionability_levels (id)  
ON DELETE SET NULL,
```

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```
data_sensitivity_id INTEGER REFERENCES public.data_sensitivity_levels
(id) ON DELETE SET NULL,
data_size_id INTEGER REFERENCES public.data_size_classifiers (id) ON
DELETE SET NULL,
output_language_id INTEGER REFERENCES public.worldlanguages (id) ON
DELETE SET NULL,
output_reading_level_id INTEGER REFERENCES public.reading_levels (id)
ON DELETE SET NULL,
review_urgency_id INTEGER REFERENCES public.urgency_levels (id) ON
DELETE SET NULL,
review_priority_id INTEGER REFERENCES public.review_priority_levels
(id) ON DELETE SET NULL,
output_category_id INTEGER REFERENCES public.gpts_cats (id) ON DELETE
SET NULL,
user_feedback TEXT
);
COMMENT ON TABLE public.prompt_outputs IS 'Stores outputs generated from
prompts';
COMMENT ON COLUMN public.prompt_outputs.output IS 'The generated output
text';
COMMENT ON COLUMN public.prompt_outputs.prompt_used IS 'The prompt used
to generate this output';
COMMENT ON COLUMN public.prompt_outputs.user_feedback IS 'User feedback
on the output';

-- Create junction tables for many-to-many relationships
CREATE TABLE public.custom_gpts_agent_groups (
```

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```
        custom_gpt_id INTEGER REFERENCES public.custom_gpts (id) ON DELETE
CASCADE,
        agent_group_id INTEGER REFERENCES public.agentgroups (id) ON DELETE
CASCADE,
        PRIMARY KEY (custom_gpt_id, agent_group_id)
);

CREATE TABLE public.custom_gpts_capabilities (
        custom_gpt_id INTEGER REFERENCES public.custom_gpts (id) ON DELETE
CASCADE,
        capability_id INTEGER REFERENCES public.gptcapabilities (id) ON
DELETE CASCADE,
        PRIMARY KEY (custom_gpt_id, capability_id)
);

CREATE TABLE public.custom_gpts_backup_statuses (
        custom_gpt_id INTEGER REFERENCES public.custom_gpts (id) ON DELETE
CASCADE,
        backup_status_id INTEGER REFERENCES public.backupstatuses (id) ON
DELETE CASCADE,
        PRIMARY KEY (custom_gpt_id, backup_status_id)
);

CREATE TABLE public.custom_gpts_business_system_tags (
        custom_gpt_id INTEGER REFERENCES public.custom_gpts (id) ON DELETE
CASCADE,
        business_system_tag_id INTEGER REFERENCES public.business_system_tags
(id) ON DELETE CASCADE,
```

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```
PRIMARY KEY (custom_gpt_id, business_system_tag_id)
);

CREATE TABLE public.custom_gpts_data_retention_plans (
    custom_gpt_id INTEGER REFERENCES public.custom_gpts (id) ON DELETE
CASCADE,
    data_retention_plan_id INTEGER REFERENCES public.data_retention_plans
(id) ON DELETE CASCADE,
    PRIMARY KEY (custom_gpt_id, data_retention_plan_id)
);

CREATE TABLE public.custom_gpts_data_sharing_groups (
    custom_gpt_id INTEGER REFERENCES public.custom_gpts (id) ON DELETE
CASCADE,
    data_sharing_group_id INTEGER REFERENCES public.data_sharing_groups
(id) ON DELETE CASCADE,
    PRIMARY KEY (custom_gpt_id, data_sharing_group_id)
);

CREATE TABLE public.custom_gpts_gpt_privacy_settings (
    custom_gpt_id INTEGER REFERENCES public.custom_gpts (id) ON DELETE
CASCADE,
    gpt_privacy_setting_id INTEGER REFERENCES public.gpt_privacy_settings
(id) ON DELETE CASCADE,
    PRIMARY KEY (custom_gpt_id, gpt_privacy_setting_id)
);
```

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```
CREATE TABLE public.custom_gpts_gpt_review_statuses (  
    custom_gpt_id INTEGER REFERENCES public.custom_gpts (id) ON DELETE  
CASCADE,  
    gpt_review_status_id INTEGER REFERENCES public.gptreviewstatuses (id)  
ON DELETE CASCADE,  
    PRIMARY KEY (custom_gpt_id, gpt_review_status_id)  
);
```

```
CREATE TABLE public.custom_gpts_media_types (  
    custom_gpt_id INTEGER REFERENCES public.custom_gpts (id) ON DELETE  
CASCADE,  
    media_type_id INTEGER REFERENCES public.mediatypes (id) ON DELETE  
CASCADE,  
    PRIMARY KEY (custom_gpt_id, media_type_id)  
);
```

```
CREATE TABLE public.custom_gpts_output_types (  
    custom_gpt_id INTEGER REFERENCES public.custom_gpts (id) ON DELETE  
CASCADE,  
    output_type_id INTEGER REFERENCES public.output_types (id) ON DELETE  
CASCADE,  
    PRIMARY KEY (custom_gpt_id, output_type_id)  
);
```

```
CREATE TABLE public.custom_gpts_programming_languages (  
    custom_gpt_id INTEGER REFERENCES public.custom_gpts (id) ON DELETE  
CASCADE,
```

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```
        programming_language_id INTEGER REFERENCES
public.programminglanguages (id) ON DELETE CASCADE,
        PRIMARY KEY (custom_gpt_id, programming_language_id)
);

CREATE TABLE public.custom_gpts_use_cases (
        custom_gpt_id INTEGER REFERENCES public.custom_gpts (id) ON DELETE
CASCADE,
        use_case_id INTEGER REFERENCES public.usecases (id) ON DELETE
CASCADE,
        PRIMARY KEY (custom_gpt_id, use_case_id)
);

CREATE TABLE public.prompt_library_programming_languages (
        prompt_library_id INTEGER REFERENCES public.prompt_library (id) ON
DELETE CASCADE,
        programming_language_id INTEGER REFERENCES
public.programminglanguages (id) ON DELETE CASCADE,
        PRIMARY KEY (prompt_library_id, programming_language_id)
);

CREATE TABLE public.prompt_library_use_cases (
        prompt_library_id INTEGER REFERENCES public.prompt_library (id) ON
DELETE CASCADE,
        use_case_id INTEGER REFERENCES public.usecases (id) ON DELETE
CASCADE,
        PRIMARY KEY (prompt_library_id, use_case_id)
```


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```
);
```

```
CREATE TABLE public.custom_gpts_prompt_library (  
    custom_gpt_id INTEGER REFERENCES public.custom_gpts (id) ON DELETE  
CASCADE,  
    prompt_library_id INTEGER REFERENCES public.prompt_library (id) ON  
DELETE CASCADE,  
    PRIMARY KEY (custom_gpt_id, prompt_library_id)  
);
```

```
-- Create new tables for version control
```

```
CREATE TABLE public.custom_gpts_version_history (  
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),  
    custom_gpt_id INTEGER NOT NULL REFERENCES public.custom_gpts (id) ON  
DELETE CASCADE,  
    version INTEGER NOT NULL,  
    change_description TEXT,  
    created_at TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp,  
    created_by INTEGER REFERENCES public.users (id),  
    UNIQUE (custom_gpt_id, version)  
);
```

```
CREATE TABLE public.prompt_library_version_history (  
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),  
    prompt_library_id INTEGER NOT NULL REFERENCES public.prompt_library  
(id) ON DELETE CASCADE,  
    version INTEGER NOT NULL,
```

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```
change_description TEXT,  
created_at TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp,  
created_by INTEGER REFERENCES public.users (id),  
UNIQUE (prompt_library_id, version)  
);  
  
-- New tables and relationships  
  
-- M2M relationship between custom GPTs and outputs  
CREATE TABLE public.custom_gpts_outputs (  
    custom_gpt_id INTEGER REFERENCES public.custom_gpts (id) ON DELETE  
CASCADE,  
    output_id INTEGER REFERENCES public.prompt_outputs (id) ON DELETE  
CASCADE,  
    PRIMARY KEY (custom_gpt_id, output_id)  
);  
  
-- M2M relationship between prompts and outputs  
CREATE TABLE public.prompt_library_outputs (  
    prompt_library_id INTEGER REFERENCES public.prompt_library (id) ON  
DELETE CASCADE,  
    output_id INTEGER REFERENCES public.prompt_outputs (id) ON DELETE  
CASCADE,  
    PRIMARY KEY (prompt_library_id, output_id)  
);  
  
-- GPT usage tracking
```

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```
CREATE TABLE public.gpt_usage_tracking (  
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),  
    custom_gpt_id INTEGER NOT NULL REFERENCES public.custom_gpts (id) ON  
DELETE CASCADE,  
    user_id INTEGER NOT NULL REFERENCES public.users (id) ON DELETE  
CASCADE,  
    usage_date DATE NOT NULL,  
    usage_count INTEGER NOT NULL DEFAULT 1,  
    created_at TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp,  
    updated_at TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp,  
    UNIQUE (custom_gpt_id, user_id, usage_date)  
);
```

-- User favorites

```
CREATE TABLE public.user_favorites (  
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),  
    user_id INTEGER NOT NULL REFERENCES public.users (id) ON DELETE  
CASCADE,  
    custom_gpt_id INTEGER REFERENCES public.custom_gpts (id) ON DELETE  
CASCADE,  
    prompt_library_id INTEGER REFERENCES public.prompt_library (id) ON  
DELETE CASCADE,  
    created_at TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp,  
    CONSTRAINT check_favorite_type CHECK (  
        (custom_gpt_id IS NOT NULL AND prompt_library_id IS NULL) OR  
        (custom_gpt_id IS NULL AND prompt_library_id IS NOT NULL)  
    )  
);
```

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```
);

-- Collaboration and sharing
CREATE TABLE public.collaboration_sharing (
    id INTEGER PRIMARY KEY DEFAULT nextval('public.global_id_seq'),
    owner_id INTEGER NOT NULL REFERENCES public.users (id) ON DELETE
CASCADE,
    shared_with_id INTEGER NOT NULL REFERENCES public.users (id) ON
DELETE CASCADE,
    custom_gpt_id INTEGER REFERENCES public.custom_gpts (id) ON DELETE
CASCADE,
    prompt_library_id INTEGER REFERENCES public.prompt_library (id) ON
DELETE CASCADE,
    permission_level VARCHAR(50) NOT NULL,
    created_at TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp,
    updated_at TIMESTAMP WITH TIME ZONE DEFAULT current_timestamp,
    CONSTRAINT check_shared_item_type CHECK (
        (custom_gpt_id IS NOT NULL AND prompt_library_id IS NULL) OR
        (custom_gpt_id IS NULL AND prompt_library_id IS NOT NULL)
    )
);

-- Create indexes
CREATE INDEX idx_custom_gpts_user_id ON public.custom_gpts (user_id);
CREATE INDEX idx_custom_gpts_gpt_name ON public.custom_gpts (gpt_name);
CREATE INDEX idx_prompt_library_user_id ON public.prompt_library
(user_id);
```

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```
CREATE INDEX idx_prompt_library_summary ON public.prompt_library
(summary);

CREATE INDEX idx_prompt_outputs_user_id ON public.prompt_outputs
(user_id);

CREATE INDEX idx_prompt_outputs_created_at ON public.prompt_outputs
(created_at);

-- Create composite indexes on main tables
CREATE INDEX idx_custom_gpts_composite ON public.custom_gpts (user_id,
gpt_name, importance, created_at);

CREATE INDEX idx_prompt_library_composite ON public.prompt_library
(user_id, rating, display_in_library, created_at);

CREATE INDEX idx_prompt_outputs_composite ON public.prompt_outputs
(user_id, created_at, accuracy_assessment_id, review_urgency_id);

-- Create indexes for the junction tables
CREATE INDEX idx_custom_gpts_prompt_library_custom_gpt_id ON
public.custom_gpts_prompt_library (custom_gpt_id);

CREATE INDEX idx_custom_gpts_prompt_library_prompt_library_id ON
public.custom_gpts_prompt_library (prompt_library_id);

CREATE INDEX idx_custom_gpts_outputs_custom_gpt_id ON
public.custom_gpts_outputs (custom_gpt_id);

CREATE INDEX idx_custom_gpts_outputs_output_id ON
public.custom_gpts_outputs (output_id);

CREATE INDEX idx_prompt_library_outputs_prompt_library_id ON
public.prompt_library_outputs (prompt_library_id);

CREATE INDEX idx_prompt_library_outputs_output_id ON
public.prompt_library_outputs (output_id);
```

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```
CREATE INDEX idx_gpt_usage_tracking_custom_gpt_id ON
public.gpt_usage_tracking (custom_gpt_id);

CREATE INDEX idx_gpt_usage_tracking_user_id ON public.gpt_usage_tracking
(user_id);

CREATE INDEX idx_gpt_usage_tracking_usage_date ON
public.gpt_usage_tracking (usage_date);

CREATE INDEX idx_user_favorites_user_id ON public.user_favorites
(user_id);

CREATE INDEX idx_user_favorites_custom_gpt_id ON public.user_favorites
(custom_gpt_id);

CREATE INDEX idx_user_favorites_prompt_library_id ON
public.user_favorites (prompt_library_id);

CREATE INDEX idx_collaboration_sharing_owner_id ON
public.collaboration_sharing (owner_id);

CREATE INDEX idx_collaboration_sharing_shared_with_id ON
public.collaboration_sharing (shared_with_id);

CREATE INDEX idx_collaboration_sharing_custom_gpt_id ON
public.collaboration_sharing (custom_gpt_id);

CREATE INDEX idx_collaboration_sharing_prompt_library_id ON
public.collaboration_sharing (prompt_library_id);

-- Add table partitioning for large tables (example for prompt_outputs)
CREATE TABLE public.prompt_outputs_partitioned (
    LIKE public.prompt_outputs INCLUDING ALL
) PARTITION BY RANGE (created_at);

CREATE TABLE public.prompt_outputs_y2023 PARTITION OF
public.prompt_outputs_partitioned
```

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```
FOR VALUES FROM ('2023-01-01') TO ('2024-01-01');
```

```
CREATE TABLE public.prompt_outputs_y2024 PARTITION OF  
public.prompt_outputs_partitioned  
FOR VALUES FROM ('2024-01-01') TO ('2025-01-01');
```

```
-- Add the requested M2M relationship between prompt outputs and prompts
```

```
CREATE TABLE public.prompt_outputs_prompts (  
    prompt_output_id INTEGER REFERENCES public.prompt_outputs (id) ON  
DELETE CASCADE,  
    prompt_id INTEGER REFERENCES public.prompt_library (id) ON DELETE  
CASCADE,  
    PRIMARY KEY (prompt_output_id, prompt_id)  
);
```

```
-- Add index for the new M2M relationship
```

```
CREATE INDEX idx_prompt_outputs_prompts_output_id ON  
public.prompt_outputs_prompts (prompt_output_id);  
CREATE INDEX idx_prompt_outputs_prompts_prompt_id ON  
public.prompt_outputs_prompts (prompt_id);
```

```
-- Add JSON fields to main tables for additional flexibility
```

```
ALTER TABLE public.custom_gpts ADD COLUMN metadata JSONB;  
ALTER TABLE public.prompt_library ADD COLUMN metadata JSONB;  
ALTER TABLE public.prompt_outputs ADD COLUMN metadata JSONB;
```

```
-- Add GIN indexes for the new JSON fields
```

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```
CREATE INDEX idx_custom_gpts_metadata ON public.custom_gpts USING GIN
(metadata);

CREATE INDEX idx_prompt_library_metadata ON public.prompt_library USING
GIN (metadata);

CREATE INDEX idx_prompt_outputs_metadata ON public.prompt_outputs USING
GIN (metadata);

COMMENT ON COLUMN public.custom_gpts.metadata IS 'Flexible field for
storing additional metadata about custom GPTs';

COMMENT ON COLUMN public.prompt_library.metadata IS 'Flexible field for
storing additional metadata about prompts';

COMMENT ON COLUMN public.prompt_outputs.metadata IS 'Flexible field for
storing additional metadata about outputs';
```