



Práctica 3.1

CARLOS BARROSO LÓPEZ | 2º DAM

1. Realiza varias investigaciones y explica con tus palabras que significan y para qué sirven los siguientes conceptos para Odoo:

ORM (Object-Relational Mapping)

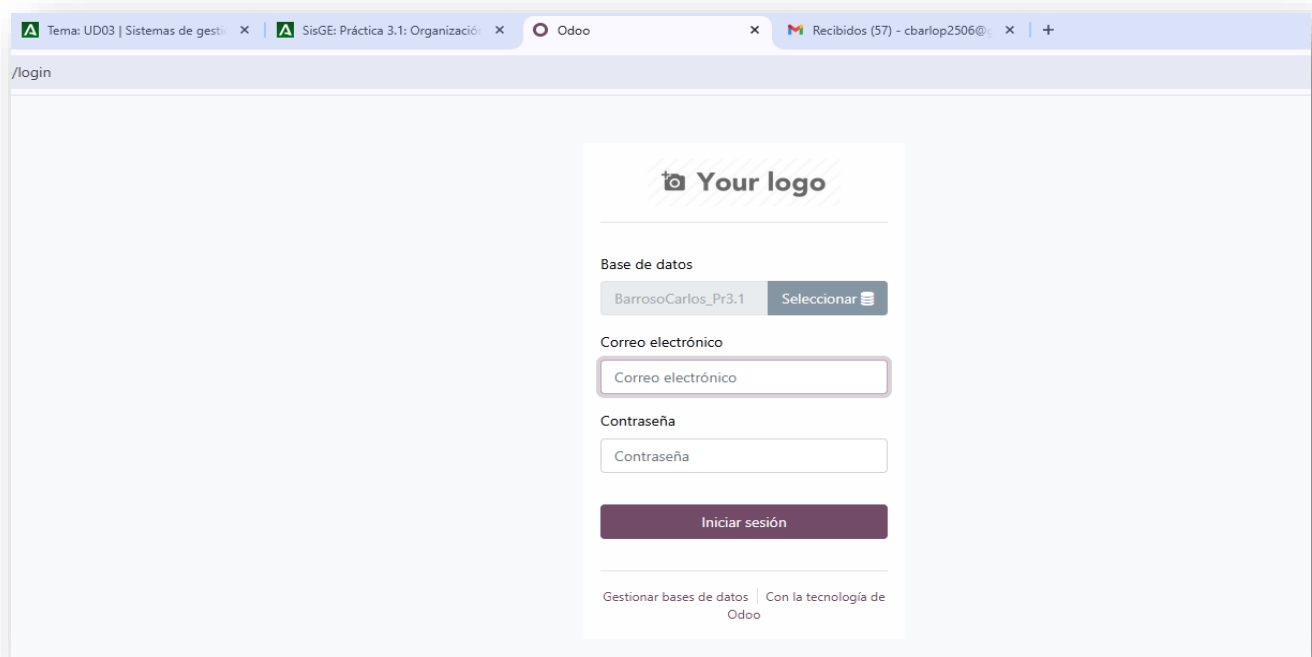
Significa Mapeo de Objetos a Relaciones. Es una técnica que permite a los desarrolladores trabajar con una base de datos utilizando objetos en lugar de escribir consultas SQL directamente.

Modelos

En Odoo, un modelo es una clase Python que representa una tabla en la base de datos. Cada modelo define los campos y relaciones que se almacenan en esa tabla.

2. En esta actividad se va a realizar una comparativa de qué nos encontramos en Odoo dependiendo de la utilización que se haga del ERP:

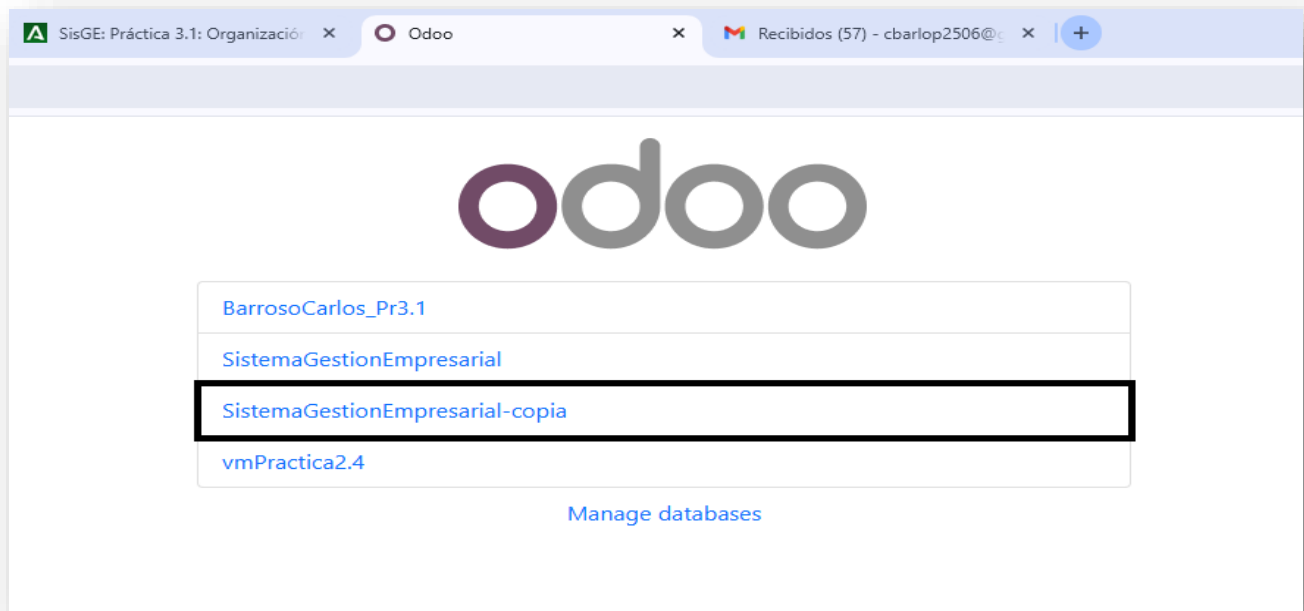
Aquí creamos una base de datos vacía que usaremos en esta práctica



cbarlop2506@gmail.com

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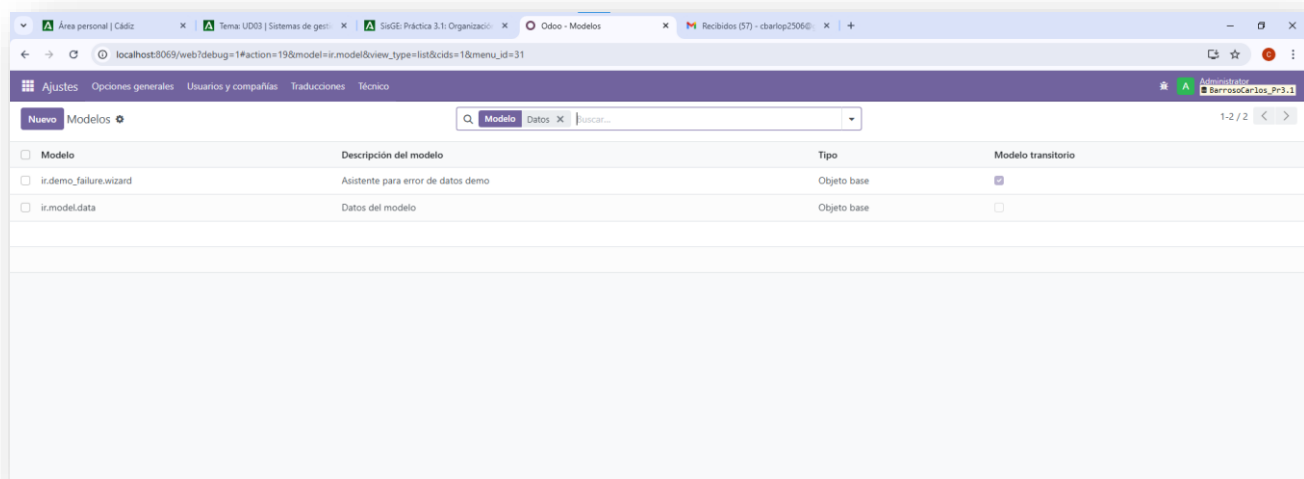
Usamos la copia (back-up) que hicimos en la tarea anterior para hacer una futura comprobación con la base de datos creada anteriormente



carlosbarroso2506@gmail.com

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Entramos en la base de datos vacía que hemos creado anteriormente, activamos el modo desarrollador y consultamos el modelo de datos aquí vemos que solo tendría dos campos



Aquí entramos también en modo desarrollador en la base de datos del backup y vemos que esta que tiene datos y demás almacenados tiene más campos

Modelo	Descripción del modelo	Tipo	Modelo transitorio
<input type="checkbox"/> mail.link.preview	Almacenar los datos de la vista previa del enlace	Objeto base	<input type="checkbox"/>
<input type="checkbox"/> ir.demo.failure.wizard	Asistente para error de datos demo	Objeto base	<input checked="" type="checkbox"/>
<input type="checkbox"/> account.setup.bank.manual.config	Configuración manual de datos bancarios	Objeto base	<input checked="" type="checkbox"/>
<input type="checkbox"/> mail.notification.web.push	Datos del cron utilizados para la notificación push en el web	Objeto base	<input type="checkbox"/>
<input type="checkbox"/> ir.model.data	Datos del modelo	Objeto base	<input type="checkbox"/>
<input type="checkbox"/> account.edi.common	Funciones comunes para documentos EDI: generar los datos, las restricciones, etc.	Objeto base	<input type="checkbox"/>
<input type="checkbox"/> website.seo.metadata	Metadatos para SEO	Objeto base	<input type="checkbox"/>
<input type="checkbox"/> discuss.voice.metadata	Metadatos para los archivos adjuntos de voz	Objeto base	<input type="checkbox"/>

Desde pgAdmin consultamos las tablas asociadas que hemos podido observar en la captura anterior, aquí podemos ver que la base de datos de la taberna de moe tiene más de 25000 campo y en la que hemos creado vacía tiene apenas unos 6000 campos, podemos comprobar obviamente que ambas bases de datos no tienen los mismos campos.

id	create_uid	create_date	write_date	write_uid	res_id	noupdate	name	module
25971	39738	2024-10-24 06:29:28.149004	2024-10-24 06:29:28.149004	[null]	43	false	new_page_template_gallery_s_image_text	theme_loftspace
25972	39739	2024-10-24 06:29:28.149004	2024-10-24 06:29:28.149004	[null]	44	false	new_page_template_gallery_s_image_text_2nd	theme_loftspace
25973	39740	2024-10-24 06:29:28.149004	2024-10-24 06:29:28.149004	[null]	45	false	new_page_template_gallery_s_text_image	theme_loftspace
25974	39741	2024-10-24 06:29:28.149004	2024-10-24 06:29:28.149004	[null]	46	false	new_page_template_services_s_image_text	theme_loftspace
25975	39742	2024-10-24 06:29:28.149004	2024-10-24 06:29:28.149004	[null]	47	false	new_page_template_services_s_text_image	theme_loftspace
25976	39743	2024-10-24 06:29:28.149004	2024-10-24 06:29:28.149004	[null]	48	false	new_page_template_pricing_s_cover	theme_loftspace
25977	39744	2024-10-24 06:29:28.149004	2024-10-24 06:29:28.149004	[null]	49	false	new_page_template_pricing_s_image_text	theme_loftspace
25978	39745	2024-10-24 06:29:28.149004	2024-10-24 06:29:28.149004	[null]	50	false	new_page_template_pricing_s_text_image_2nd	theme_loftspace
25979	39746	2024-10-24 06:29:28.149004	2024-10-24 06:29:28.149004	[null]	51	false	new_page_template_pricing_s_text_image	theme_loftspace
25980	39747	2024-10-24 06:29:28.149004	2024-10-24 06:29:28.149004	[null]	52	false	new_page_template_team_s_text_block_h1	theme_loftspace
25981	39748	2024-10-24 06:29:28.149004	2024-10-24 06:29:28.149004	[null]	53	false	new_page_template_team_s_text_image	theme_loftspace
25982	39749	2024-10-24 06:29:28.149004	2024-10-24 06:29:28.149004	[null]	54	false	new_page_template_team_1_s_text_block_h1	theme_loftspace
25983	39750	2024-10-24 06:29:28.149004	2024-10-24 06:29:28.149004	[null]	55	false	new_page_template_team_2_s_text_block_h1	theme_loftspace

pgAdmin 4

File Object Tools Edit View Window Help

Object Explorer

- Database
- Public
- Information
- Schema
- Table
- View
- Materialized View
- Sequence
- Function
- Procedure
- Trigger
- Rule
- Policy
- Index
- Constraint
- Tablespace
- Partition
- Role
- Group
- Database
- Schema
- Table
- View
- Materialized View
- Sequence
- Function
- Procedure
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- Index
- Constraint
- Tablespace
- Partition
- Role
- Group

Dashboard Properties SQL Statistics Dependencies Dependents Processes BarrosoCarlos_Pr3.1/postgres@PostgreSQL 17* SistemaGestionE...

Query Query History

```
1 SELECT * FROM fr_model_data;
```

Data Output Messages Notifications

id	create_uid	create_date	write_date	write_uid	res_id	noupdate	name	module
[PK] integer	integer	timestamp without time zone	timestamp without time zone	integer	integer	boolean	character varying	character varying
5708	6666	[null]	2024-11-21 07:31:12.601742	[null]	234	false	snippet_options_image_optimization_widgets	web_editor
5709	6667	[null]	2024-11-21 07:31:12.601742	[null]	235	false	snippet_options_background_color_widget	web_editor
5710	6668	[null]	2024-11-21 07:31:12.601742	[null]	236	false	snippet_options_background_options	web_editor
5711	6669	[null]	2024-11-21 07:31:12.601742	[null]	237	false	snippet_options	web_editor
5712	6670	[null]	2024-11-21 07:31:12.601742	[null]	238	false	s_hr	web_editor
5713	6671	[null]	2024-11-21 07:31:13.187891	[null]	28	false	model_hr_attachment	web_unsplash
5714	6672	[null]	2024-11-21 07:31:13.187891	[null]	52	false	model_hr_qweb_field_image	web_unsplash
5715	6673	[null]	2024-11-21 07:31:13.187891	[null]	97	false	model_res_users	web_unsplash
5716	6674	[null]	2024-11-21 07:31:13.187891	[null]	91	false	model_res_config_settings	web_unsplash
5717	6675	[null]	2024-11-21 07:31:13.187891	[null]	1544	false	field_res_config_settings_unsplash_access_key	web_unsplash
5718	6676	[null]	2024-11-21 07:31:13.187891	[null]	1545	false	field_res_config_settings_unsplash_app_id	web_unsplash
5719	6686	[null]	2024-11-21 07:31:13.187891	[null]	16	false	model_inherit__r_qweb_field_image__r_qweb_field_image	web_unsplash
5720	6688	[null]	2024-11-21 07:31:13.187891	[null]	239	false	res_config_settings_view_form	web_unsplash

Total rows: 5720 of 5720 Query complete 00:00:00.092 Ln 1, Col 28

pgAdmin 4

File Object Tools Edit View Window Help

Object Explorer

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- Tablespace
- Partition
- Role
- Group
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- Table
- View
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Dashboard Properties SQL Statistics Dependencies Dependents Processes SistemaGestionEmpresarial/postgres@PostgreSQL 17* BarrosoCarlos_Pr3.1

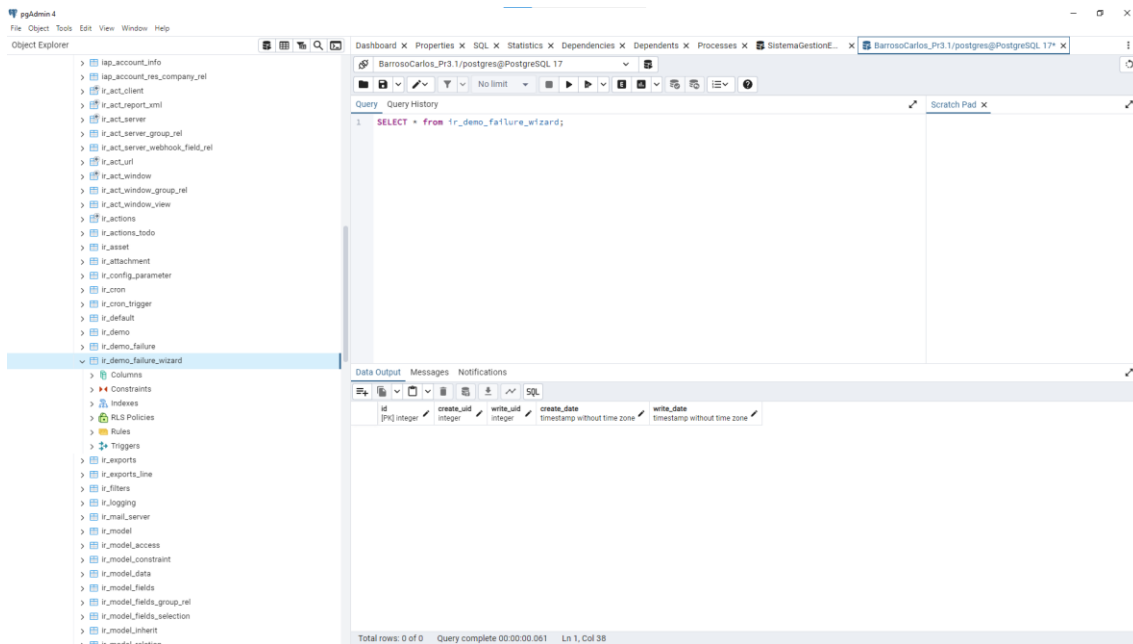
Query Query History

```
1 SELECT * FROM fr_demo_failure_wizard;
```

Data Output Messages Notifications

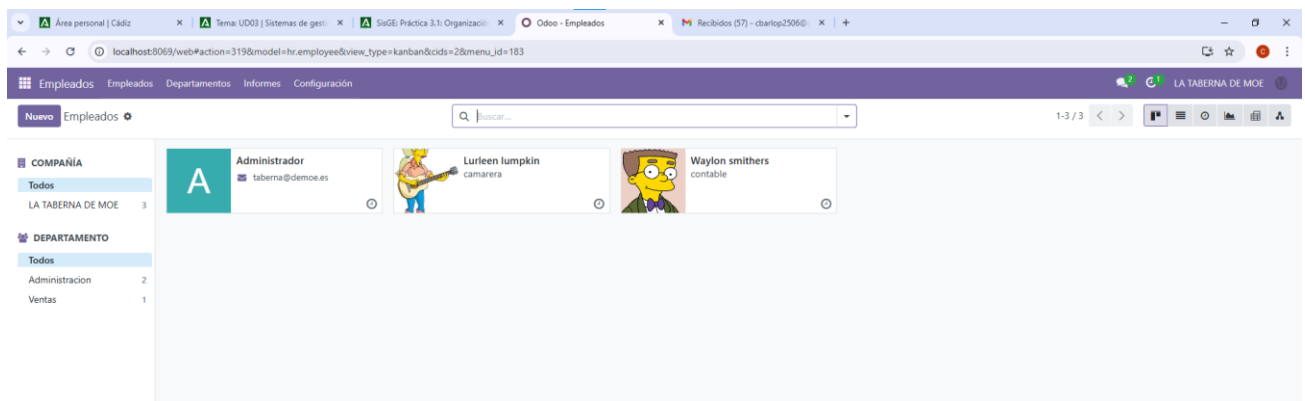
id	create_uid	write_uid	create_date	write_date
[PK] integer	integer	integer	timestamp without time zone	timestamp without time zone

Total rows: 0 of 0 Query complete 00:00:00.192 Ln 1, Col 1



3. En esta actividad vamos a trabajar con la tabla/modelo de empleados, por lo que deber hacer:

Aquí vemos la lista empleados de la taberna de moe desde odoo lo podemos ver desde el módulo de empleados



creamos un nuevo empleado en este caso con nuestros datos

The screenshot shows the Odoo HR form for creating a new employee. The form is titled "Carlos" and "camarero". The "Departamento" is "Ventas". The "Puesto de trabajo" is "camarero". The "Gerente" is "Lurleen lumpkin" and the "Mentor" is "Lurleen lumpkin". The "Compañía" is "LA TABERNA DE MOE". The "CURRÍCULUM" section has a button "Crear una nueva entrada". The "HABILIDADES" section has a button "Crear nuevas habilidades". The "LÍNEA DE TIEMPO" section is empty.

Después de guardar los datos

The screenshot shows the Odoo HR Kanban view. The left sidebar shows the "EMPLEADOS" section with a search bar. The main area displays a list of employees in a Kanban view. The employees are:

COMPañÍA	Empleado	Departamento
LA TABERNA DE MOE	Administrador	Administración
LA TABERNA DE MOE	Carlos	Ventas
LA TABERNA DE MOE	Lurleen lumpkin	Ventas
LA TABERNA DE MOE	Waylon smithers	Ventas

Ahora vamos a ver la lista de empleados desde las diferentes bases de datos

Base de datos backup

pgAdmin 4

File Object Tools Edit View Window Help

Object Explorer

- discuss_channel_res_groups_rel
- discuss_channel_rtc_session
- discuss_gif_favorite
- discuss_voice_metadata
- email_template_attachment_rel
- employee_category_rel
- fetchmail_server
- gamification_badge
- gamification_badge_rule_badge_rel
- gamification_badge_user
- gamification_badge_user_wizard
- gamification_challenge
- gamification_challenge_line
- gamification_challenge_users_rel
- gamification_goal
- gamification_goal_definition
- gamification_goal_wizard
- gamification_invited_user_ids_rel
- gamification_karma_rank
- gamification_karma_tracking
- hr_contract_type
- hr_department
- hr_departure_reason
- hr_departure_wizard
- hr_employee**
- hr_employee_category
- hr_employee_cv_wizard
- hr_employee_cv_wizard_rel
- hr_employee_hr_skill_rel
- hr_employee_skill
- hr_employee_skill_log
- hr_job
- hr_resume_line
- hr_resume_line_type
- hr_skill
- hr_skill_level
- hr_skill_type
- hr_work_location
- lap_account
- lap_account_info
- lap_account_res_company_rel
- lap_res_company

Dashboard Properties SQL Statistics Dependencies Dependents Processes SistemaGestionEmpresarial/postgres@PostgreSQL 17*

Query Query History

1 SELECT * from hr_employee;

Scratch Pad

Data Output Messages Notifications

id	create_uid	write_uid	name	job_title	work_phone	mobile_phone	work_email	private_street	private_street2	private_city
1	[null]	1	Carlos Barroso	[null]	[null]	[null]	carlosbarroso2506@gmail.com	[null]	[null]	[null]
2	[null]	2	Raul	Desarrollo Web	[null]	666777888	[null]	[null]	[null]	[null]
3	[null]	2	Administrador	[null]	[null]	[null]	taberna@demo.es	[null]	[null]	[null]
4	[null]	2	Lurleen Lumpkin	camarera	[null]	[null]	[null]	[null]	[null]	[null]
5	[null]	2	Waylon smithers	contable	[null]	[null]	[null]	[null]	[null]	[null]

Total rows: 5 of 5 Query complete 00:00:00.064 Ln 1, Col 26

Creación de tabla empleados mediante sentencia SQL

```
CREATE TABLE IF NOT EXISTS public.hr_employee

(
    id integer NOT NULL DEFAULT nextval('hr_employee_id_seq'::regclass),
    resource_id integer NOT NULL,
    company_id integer NOT NULL,
    resource_calendar_id integer,
    message_main_attachment_id integer,
    color integer,
    department_id integer,
    job_id integer,
    address_id integer,
    work_contact_id integer,
    work_location_id integer,
    user_id integer,
    parent_id integer,
    coach_id integer,
    private_state_id integer,
    private_country_id integer,
    country_id integer,
    children integer,
```



```

CONSTRAINT hr_employee_country_id_fkey FOREIGN KEY (country_id)
REFERENCES public.res_country (id) MATCH SIMPLE
ON UPDATE NO ACTION
ON DELETE SET NULL,

CONSTRAINT hr_employee_country_of_birth_fkey FOREIGN KEY (country_of_birth)
REFERENCES public.res_country (id) MATCH SIMPLE
ON UPDATE NO ACTION
ON DELETE SET NULL,

CONSTRAINT hr_employee_create_uid_fkey FOREIGN KEY (create_uid)
REFERENCES public.res_users (id) MATCH SIMPLE
ON UPDATE NO ACTION
ON DELETE SET NULL,

CONSTRAINT hr_employee_department_id_fkey FOREIGN KEY (department_id)
REFERENCES public.hr_department (id) MATCH SIMPLE
ON UPDATE NO ACTION
ON DELETE SET NULL,

CONSTRAINT hr_employee_departure_reason_id_fkey FOREIGN KEY (departure_reason_id)
REFERENCES public.hr_departure_reason (id) MATCH SIMPLE
ON UPDATE NO ACTION
ON DELETE RESTRICT,

CONSTRAINT hr_employee_job_id_fkey FOREIGN KEY (job_id)
REFERENCES public.hr_job (id) MATCH SIMPLE
ON UPDATE NO ACTION
ON DELETE SET NULL,

CONSTRAINT hr_employee_message_main_attachment_id_fkey FOREIGN KEY
(message_main_attachment_id)
REFERENCES public.ir_attachment (id) MATCH SIMPLE
ON UPDATE NO ACTION
ON DELETE SET NULL,

CONSTRAINT hr_employee_parent_id_fkey FOREIGN KEY (parent_id)
REFERENCES public.hr_employee (id) MATCH SIMPLE
ON UPDATE NO ACTION
ON DELETE SET NULL,

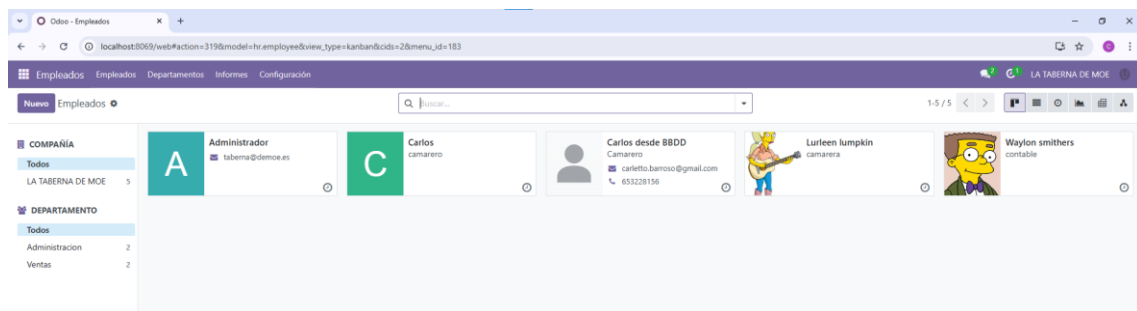
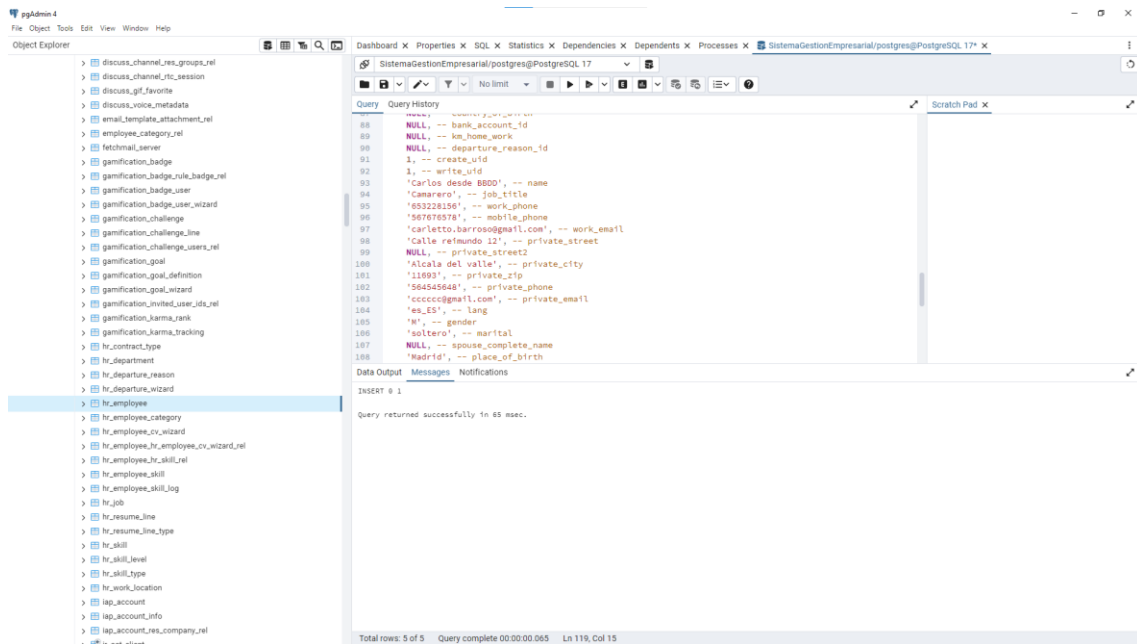
```

```

CONSTRAINT hr_employee_private_country_id_fkey FOREIGN KEY (private_country_id)
REFERENCES public.res_country (id) MATCH SIMPLE
ON UPDATE NO ACTION
ON DELETE SET NULL,
CONSTRAINT hr_employee_private_state_id_fkey FOREIGN KEY (private_state_id)
REFERENCES public.res_country_state (id) MATCH SIMPLE
ON UPDATE NO ACTION
ON DELETE SET NULL,
CONSTRAINT hr_employee_resource_calendar_id_fkey FOREIGN KEY (resource_calendar_id)
REFERENCES public.resource_calendar (id) MATCH SIMPLE
ON UPDATE NO ACTION
ON DELETE SET NULL,
CONSTRAINT hr_employee_resource_id_fkey FOREIGN KEY (resource_id)
REFERENCES public.resource_resource (id) MATCH SIMPLE
ON UPDATE NO ACTION
ON DELETE RESTRICT,
CONSTRAINT hr_employee_user_id_fkey FOREIGN KEY (user_id)
REFERENCES public.res_users (id) MATCH SIMPLE
ON UPDATE NO ACTION
ON DELETE RESTRICT,
CONSTRAINT hr_employee_work_contact_id_fkey FOREIGN KEY (work_contact_id)
REFERENCES public.res_partner (id) MATCH SIMPLE
ON UPDATE NO ACTION
ON DELETE SET NULL,
CONSTRAINT hr_employee_work_location_id_fkey FOREIGN KEY (work_location_id)
REFERENCES public.hr_work_location (id) MATCH SIMPLE
ON UPDATE NO ACTION
ON DELETE SET NULL,
CONSTRAINT hr_employee_write_uid_fkey FOREIGN KEY (write_uid)
REFERENCES public.res_users (id) MATCH SIMPLE
ON UPDATE NO ACTION
ON DELETE SET NULL
)

```

Aquí vemos como funciona correctamente la sentencia SQL



Aquí comparamos la tabla empleados con el modelo de empleados

```
INSERT INTO public.hr_employee( id, resource_id, company_id, resource_calendar_id,
message_main_attachment_id, color, department_id, job_id, address_id, work_contact_id,
work_location_id, user_id, parent_id, coach_id, private_state_id, private_country_id,
country_id, children, country_of_birth, bank_account_id, km_home_work,
departure_reason_id, create_uid, write_uid, name, job_title, work_phone, mobile_phone,
work_email, private_street, private_street2, private_city, private_zip, private_phone,
private_email, lang, gender, marital, spouse_complete_name, place_of_birth, ssid,
sinid, identification_id, passport_id, permit_no, visa_no, certificate, study_field,
study_school, emergency_contact, emergency_phone, employee_type, barcode, pin,
private_car_plate, spouse_birthdate, birthday, visa_expire,
work_permit_expiration_date, departure_date, employee_properties, additional_note,
notes, departure_description, active, work_permit_scheduled_activity, create_date,
write_date) VALUES (?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?,
?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?,
?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?,
?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?);
```

