Documentación

Base de datos

Contenido

[Tablas 3](#_Toc120884417)

[customers 3](#_Toc120884418)

[product\_categories 3](#_Toc120884419)

[store\_types 3](#_Toc120884420)

[cities 3](#_Toc120884421)

[stores 4](#_Toc120884422)

[transactions 4](#_Toc120884423)

[Scripts 5](#_Toc120884424)

[DER 7](#_Toc120884425)

# Tablas

customers

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Columna | Tipo | Nullable | Descripción |
| Estructura | **ID\_Customer** | serial4 | No | ID de cliente |
| **DOB** | Date | Si | Fecha de nacimiento. |
| **Gender** | varchar | Si | Genero |
| **ID\_City** | int4 | Si | ID de ciudad |
| Primary Key | ID\_Customer | | | |

product\_categories

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Columna | Tipo | Nullable | Descripción |
| Estructura | **ID\_Product\_Category** | varchar | No | ID de registro, compuesto por ID\_Category + ID\_Subcategory |
| **ID\_Category** | int4 | No | ID de categoría |
| **Category** | Varchar | Si | Nombre de categoría |
| **ID\_Subcategory** | Int4 | No | ID de subcategoría |
| **Subcategory** | varchar | Si | Nombre de subcategoría |
| Primary Key | ID\_Product\_Category | | | |

store\_types

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Columna | Tipo | Nullable | Descripción |
| Estructura | **ID\_Store\_Type** | Serial4 | No | ID de tipo de tienda |
| **Store\_Type** | varchar | Si | Nombre de tipo de tienda |
| Primary Key | ID\_Store\_Type | | | |

cities

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Columna | Tipo | Nullable | Descripción |
| Estructura | **ID\_City** | Serial4 | No | ID de ciudad |
| **City** | varchar | Si | Nombre de ciudad |
| Primary Key | ID\_City | | | |

stores

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Columna | Tipo | Nullable | Descripción |
| Estructura | **ID\_Stores** | Serial4 | No | ID de tienda |
| **Store** | varchar | Si | Nombre de tienda |
| Primary Key | ID\_Store | | | |

transactions

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Columna | Tipo | Nullable | Descripción |
| Estructura | **ID\_Transaction** | Serial4 | No | ID de transacción |
| **ID\_Customer** | Int4 | Si | ID de cliente |
| **Transaction\_date** | Date | Si | Fecha de transacción |
| **ID\_Subcategory** | Int4 | Si | ID de subcategoría |
| **ID\_Category** | Int4 | Si | ID de categoría |
| **Quantity** | numeric | Si | Cantidad de elementos de la transacción |
| **Rate** | numeric | Si | Precio unitario de cada elemento |
| **Tax** | numeric | Si | Monto total de impuesto |
| **Total\_amount** | numeric | Si | Monto total |
| **ID\_Store\_type** | Int4 | Si | ID de tipo de tienda |
| **ID\_Store** | Int4 | Si | ID de tienda |
| **ID\_Product\_Category** | varchar | Si | ID compuesto de categoría de producto |
| **Transaction\_Number** | numeric | Si | Numero de transacción. |
|  | **Transaction\_Type** | varchar | Si | Tipo de transacción.  P (purchase) o R (return) |
| Primary Key | ID\_Transaction | | | |
| Foreign Key | Category\_FK | product\_categories.id\_product\_category | | |
| Customer\_FK | customers.id\_customer | | |
| Store\_Type\_FK | store\_types.id\_store\_type | | |
| Store\_FK | stores.id\_store | | |

# Scripts

CREATE TABLE IF NOT EXISTS public.customers (

    id\_customer serial4 NOT NULL,

    dob date NULL,

    gender varchar NULL,

    age int4 NULL,

    id\_city int4 NULL,

    CONSTRAINT customers\_pkey PRIMARY KEY (id\_customer)

);

-- public.customers foreign keys

ALTER TABLE public.customers ADD CONSTRAINT customers\_id\_city\_fkey FOREIGN KEY (id\_city) REFERENCES public.cities(id\_city);

CREATE TABLE IF NOT EXISTS public.product\_categories (

    id\_product\_category varchar NOT NULL,

    id\_category int4 NOT NULL,

    category varchar NULL,

    id\_subcategory int4 NOT NULL,

    subcategory varchar NULL,

    CONSTRAINT product\_categories\_pkey PRIMARY KEY (id\_product\_category)

);

CREATE TABLE IF NOT EXISTS public.store\_types (

    id\_store\_type serial4 NOT NULL,

    store\_type varchar NULL,

    CONSTRAINT store\_types\_pkey PRIMARY KEY (id\_store\_type)

);

CREATE TABLE IF NOT EXISTS public.cities (

    id\_city serial4 NOT NULL,

    city varchar NULL,

    CONSTRAINT cities\_pkey PRIMARY KEY (id\_city)

);

CREATE TABLE IF NOT EXISTS public.stores (

    id\_store serial4 NOT NULL,

    store\_name varchar NULL,

    CONSTRAINT stores\_pkey PRIMARY KEY (id\_store)

);

CREATE TABLE public.transactions (

    id\_transaction serial4 NOT NULL,

    transaction\_number numeric NULL,

    transaction\_type varchar NULL,

    id\_customer int4 NOT NULL,

    transaction\_date date NULL,

    id\_category int4 NOT NULL,

    id\_subcategory int4 NOT NULL,

    quantity numeric NULL,

    rate numeric NULL,

    tax numeric NULL,

    total\_amount numeric NULL,

    id\_store int4 NOT NULL,

    id\_store\_type int4 NOT NULL,

    id\_product\_category varchar NOT NULL,

    CONSTRAINT transactions\_pkey PRIMARY KEY (id\_transaction)

);

-- public.transactions foreign keys

ALTER TABLE public.transactions ADD CONSTRAINT transactions\_id\_customer\_fkey FOREIGN KEY (id\_customer) REFERENCES public.customers(id\_customer);

ALTER TABLE public.transactions ADD CONSTRAINT transactions\_id\_product\_category\_fkey FOREIGN KEY (id\_product\_category) REFERENCES public.product\_categories(id\_product\_category);

ALTER TABLE public.transactions ADD CONSTRAINT transactions\_id\_store\_fkey FOREIGN KEY (id\_store) REFERENCES public.stores(id\_store);

ALTER TABLE public.transactions ADD CONSTRAINT transactions\_id\_store\_type\_fkey FOREIGN KEY (id\_store\_type) REFERENCES public.store\_types(id\_store\_type);

# DER

Diagrama

Descripción generada automáticamente