Documentación

Base de datos

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# Tablas

customers

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Columna | Tipo | Nullable | Descripción |
| Estructura | **ID\_Customer** | integer | No | ID de cliente |
| **DOB** | date | Si | Fecha de nacimiento. |
| **Gender** | char | Si | Genero |
| **ID\_City** | integer | Si | ID de ciudad |
| Primary Key | ID\_Customer | | | |

product\_categories

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Columna | Tipo | Nullable | Descripción |
| Estructura | **ID\_Product\_Category** | character(5) | No | ID de registro, compuesto por ID\_Category + ID\_Subcategory |
| **ID\_Category** | integer | No | ID de categoría |
| **Category** | character (20) | Si | Nombre de categoría |
| **ID\_Subcategory** | integer | No | ID de subcategoría |
| **Subcategory** | character (20) | Si | Nombre de subcategoría |
| Primary Key | ID\_Product\_Category | | | |

store\_types

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Columna | Tipo | Nullable | Descripción |
| Estructura | **ID\_Store\_Type** | integer | No | ID de tipo de tienda |
| **Store\_Type** | character (20) | Si | Nombre de tipo de tienda |
| Primary Key | ID\_Store\_Type | | | |

cities

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Columna | Tipo | Nullable | Descripción |
| Estructura | **ID\_City** | integer | No | ID de ciudad |
| **City** | character (30) | Si | Nombre de ciudad |
| Primary Key | ID\_City | | | |

stores

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Columna | Tipo | Nullable | Descripción |
| Estructura | **ID\_Stores** | integer | No | ID de tienda |
| **Store** | character (20) | Si | Nombre de tienda |
| Primary Key | ID\_Store | | | |

transactions

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Columna | Tipo | Nullable | Descripción |
| Estructura | **ID\_Transaction** | integer | No | ID de transacción |
| **ID\_Customer** | integer | Si | ID de cliente |
| **Transaction\_date** | date | Si | Fecha de transacción |
| **ID\_Subcategory** | integer | Si | ID de subcategoría |
| **ID\_Category** | integer | 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** | integer | Si | ID de tipo de tienda |
| **ID\_Store** | integer | Si | ID de tienda |
| **ID\_Product\_Category** | character(5) | Si | ID compuesto de categoría de producto |
| 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 integer NOT NULL,

    dob date,

    gender "char",

    id\_city integer,

    CONSTRAINT customers\_pkey PRIMARY KEY (id\_customer)

);

CREATE TABLE IF NOT EXISTS public.product\_categories

(

    id\_product\_category character(5) NOT NULL,

    id\_category integer NOT NULL,

    category character(20) COLLATE pg\_catalog."default",

    id\_subcategory integer NOT NULL,

    subcategory character(20) COLLATE pg\_catalog."default",

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

);

CREATE TABLE IF NOT EXISTS public.store\_types

(

    id\_store\_type integer NOT NULL,

    store\_type character(20) COLLATE pg\_catalog."default",

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

);

CREATE TABLE public.cities

(

    "ID\_City" integer NOT NULL,

    "City" character(20),

    PRIMARY KEY ("ID\_City")

);

CREATE TABLE public.stores

(

    "ID\_Store" integer NOT NULL,

    "Store\_Name" character(30),

    PRIMARY KEY ("ID\_Store")

);

CREATE TABLE IF NOT EXISTS public.transactions

(

    "ID\_Transaction" integer NOT NULL,

    "ID\_Customer" integer,

    "Transaction\_Date" date,

    "ID\_Subcategory" integer,

    "ID\_Category" integer,

    "Quantity" numeric,

    "Rate" numeric,

    "Tax" numeric,

    "Total\_Amount" numeric,

    "ID\_Store" integer,

    "ID\_Store\_Type" integer,

    "ID\_Product\_Category" character(5) NOT NULL

    CONSTRAINT transactions\_pkey PRIMARY KEY (id\_transaction),

    CONSTRAINT category\_fk FOREIGN KEY (id\_product\_category)

        REFERENCES public.product\_categories (id\_product\_category) MATCH SIMPLE

        ON UPDATE NO ACTION

        ON DELETE NO ACTION,

    CONSTRAINT customer\_fk FOREIGN KEY (id\_customer)

        REFERENCES public.customers (id\_customer) MATCH SIMPLE

        ON UPDATE NO ACTION

        ON DELETE NO ACTION,

    CONSTRAINT store\_fk FOREIGN KEY (id\_store)

        REFERENCES public.stores (id\_store) MATCH SIMPLE

        ON UPDATE NO ACTION

        ON DELETE NO ACTION

        NOT VALID

    CONSTRAINT store\_type\_fk FOREIGN KEY (id\_store\_type)

        REFERENCES public.stpre\_types (id\_store\_type) MATCH SIMPLE

        ON UPDATE NO ACTION

        ON DELETE NO ACTION

        NOT VALID

);

# DER

