

Table 1

The ``customer_address`` table stores various addresses associated with each customer, allowing for multiple shipping or billing addresses.

``address_id``: Unique identifier for each address record

- ``text`` for flexibility and potential UUIDs, ``PK`` ensures uniqueness, ``not null`` required.

``customer_id``: Links the address to a specific customer

- ``text`` to match ``customers.customer_id``, ``not null`` as addresses belong to customers, ``FK`` referencing ``customers.customer_id``.

``address_type``: Indicates the purpose of the address (e.g., "shipping", "billing")

- ``text`` for descriptive values, ``not null`` as every address has a type.

``street``: The street address

- ``varchar(255)`` accommodates typical street address lengths, ``not null`` as it's a core address component.

``city``: The city portion of the address

- ``varchar(100)`` sufficient for most city names, ``not null`` as it's a core address component.

``state``: The state or province of the address

- ``varchar(100)`` allows for longer state names, nullable as not all countries have states.

``postal_code``: The postal or zip code

- ``varchar(20)`` handles various postal code formats, nullable as not all countries use them.

``country``: The country of the address

- ``varchar(100)`` accommodates country names, ``not null`` as it's a core address component.

``is_primary``: Flags whether this is the customer's preferred address

- ``bool`` for true/false value, ``default: false`` assumes not primary unless specified, ``not null`` ensures a value.

Table 2

Table customers: This table stores comprehensive information about individuals and businesses interacting with the organization.

COLUMNS:

customer_id: Unique identifier for each customer; text

- allows for alphanumeric IDs and future expansion. [PK, not null]

entity_individual: Indicates if the customer is an individual; varchar(20)

- short text description.

legal_company_name: The official registered name of a company customer; varchar(100)

- stores company names.

company_trade_name: The commonly used trade name of a company customer; varchar(100)

- stores trade names.

full_legal_name: The complete legal name of the customer (individual or company); varchar(100)

- stores full names.

name_prefix: Titles like Mr., Ms., Dr.; varchar(10)

- short text for titles.

first_name: Customer's first name; varchar(100)

- stores names.

middle_name: Customer's middle name; varchar(100)

- stores names.

last_name: Customer's last name; varchar(100)

- stores names.

alias: Nickname or alternative name used by the customer; varchar(100)

- stores alternative names.

date_of_birth: Customer's date of birth; text

- stores dates.

date_of_incorporation: Date the company was legally formed; text

- stores dates.

national_id: National identification number (e.g., Social Security Number); text

- stores sensitive IDs.

country_of_legal_formation: Country where the company was legally formed; varchar(100)

- stores country names.

country_of_birth: Customer's country of birth; varchar(100)

- stores country names.

country_of_principle_business: Country where the customer primarily conducts business; varchar(100)

- stores country names.

country_of_primary_residence: Customer's primary country of residence; varchar(100)

- stores country names.

tax_id: Customer's tax identification number; text

- stores sensitive IDs.

age: Customer's age in years; int4

- whole number for age.

gender: Customer's gender; text

- stores gender identity.

ethnicity: Customer's self

- identified ethnicity; varchar(100)
- stores ethnicity.

nationality: Customer's nationality; varchar(100)

- stores nationality.

citizenship1: Customer's first citizenship; varchar(100)

- stores citizenship.

citizenship2: Customer's second citizenship (if applicable); varchar(100)

- stores citizenship.

native_language: Customer's native language; varchar(50)

- stores language names.

religion: Customer's religious affiliation; varchar(100)

- stores religious affiliation.

marital_status: Customer's marital status; text

- stores marital status.

dependents_count: Number of dependents the customer has; int4

- whole number for count.

household_income: Customer's total household income; numeric(15, 2)

- stores monetary values with precision.

education_level: Customer's highest level of education; text

- stores education levels.

employment_status: Customer's current employment status; text

- stores employment status.

occupation: Customer's job title or occupation; varchar(100)

- stores job titles.

industry: Industry the customer works in; varchar(100)

- stores industry names.

company_name: Name of the customer's employer; varchar(255)

- stores company names.

years_with_employer: Number of years the customer has been with their employer; int4

- whole number for years.

job_role: Customer's specific role within their company; varchar(100)

- stores job roles.

annual_income: Customer's annual income; numeric(15, 2)

- stores monetary values with precision.

primary_bank_relation: Customer's primary banking relationship; text

- stores bank relationship details.

credit_score: Customer's credit score; numeric(5, 2)

- stores credit scores.

home_ownership: Customer's home ownership status; text

- stores home ownership status.

residence_duration: Length of time the customer has resided at their current address; int4

- whole number for duration.

vehicle_ownership: Indicates if the customer owns a vehicle; bool

- boolean true/false value.

financial_dependents: Number of people financially dependent on the customer; int4

- whole number for count.

preferred_currency: Customer's preferred currency; varchar(10)

- stores currency codes.

preferred_branch: Customer's preferred branch location; varchar(100)

- stores branch names.

preferred_contact_method: Customer's preferred method of contact; text

- stores contact method.

social_media_presence: Customer's social media profiles and activity; jsonb

- stores complex data structures.

risk_score: Calculated risk score for the customer; numeric(5, 2)

- stores risk scores.

created_at: Timestamp indicating when the customer record was created; timestamp

- stores date and time.

updated_at: Timestamp indicating when the customer record was last updated; timestamp

- stores date and time.