**SQL assignment 2: Prompt 3**

To store customer addresses, we can design the CUSTOMER\_ADDRESS table in two ways as per the given requirements depending on whether we want to retain changes (historical tracking) or overwrite old data.

**Architecture 1: (Type 1): Overwrite the Address**

This approach updates the existing record whenever a customer changes their address. The old address is lost. This could be used when we only care about the current address and not the history. This table will have the following fields.

**Customer\_Address\_type1 Table:**

customer\_id (PK, FK)

add\_line1

add\_line2

city

state

zip\_code

country

last\_updated\_date

**Architecture 2: (Type 2 ): Retain Address Changes**

This approach creates a new record for each address change while keeping the previous addresses. This could be used when we want to keep a history of customer addresses over time. This table will have the following fields.

**Customer\_Address\_type2 Table:**

cust\_address\_id (PK)

customer\_id (FK)

add\_line1

add\_line2

city

state

zip\_code

country

start\_date (when this address became effective)

end\_date (null if current)

is\_current (boolean flag)