Relationships & Assumptions:

Users as the Hub: Both the user_touchpoints and revenue_and_rewards tables use user_id as a foreign key referencing users. This ensures that all detailed user interactions and transactions tie back to a valid user.

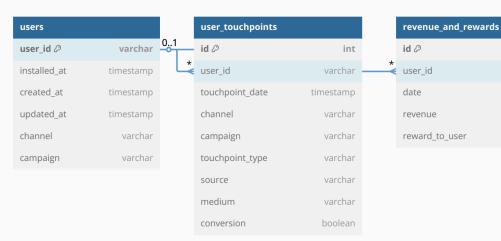
marketing_spend Independence: The marketing_spend table holds daily aggregate spend and performance metrics per channel and campaign. Although it shares the channel and campaign fields with users, there isn't a strict foreign key relationship here. The assumption is that this table is used to track overall channel/campaign performance, while the user-level data (including attribution) is captured in the users and user_touchpoints tables.

Time & Granularity: We assume that dates and timestamps are in a consistent timezone and that the granularity (daily for spend, individual events for touchpoints) is appropriate for later aggregations.

Surrogate Keys: For tables where a natural primary key isn't provided (like marketing_spend and user_touchpoints), a surrogate auto-incrementing key is used.



id	
channel varchar campaign varchar	
campaign varchar	
spand dasimal	
spend decimal	
impressions int	
clicks int	
installs int	





int

varchar

decimal

decimal

date