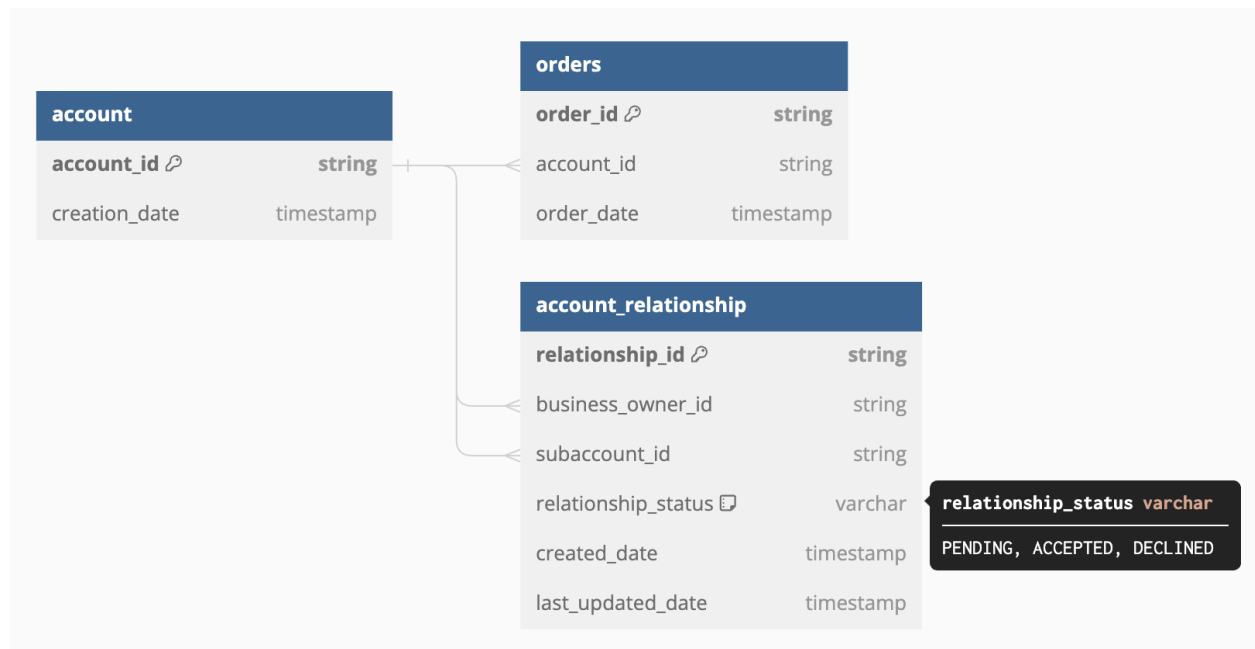


# Solution to the problem:

## Database Schema



### 1. Accounts table (ACCOUNT)

ACCOUNT_ID (primary key)	CREATION_DATE

### 2. Order table (ORDER)

ORDER_ID (primary key)	ACCOUNT_ID (Foreign Key to ACCOUNT table)	ORDER_DATE

### 3. Business Owner and SubAccount Relationship (ACCOUNT\_RELATIONSHIP)

RELATIONSHIP_ID <i>(primary key)</i>	BUSINESS_OWNER_ID (Foreign Key to ACCOUNT table)	SUBACCOUNT_ID (Foreign Key to ACCOUNT table)	RELATIONSHIP_STATUS  (PENDING, ACCEPTED, DECLINED)

## API Design

API endpoint	Description
<b>/accounts/{accountId}/upgrade</b> <ul style="list-style-type: none"> <li>- Method: <b>POST</b></li> <li>- Request Body: <b>None</b></li> <li>- Response: Success or failure message</li> </ul>	Request to Upgrade to Business Owner
<b>/accounts/{businessOwnerId}/invite</b> <ul style="list-style-type: none"> <li>- Method: <b>POST</b></li> <li>- Request Body: <ul style="list-style-type: none"> <li>- <b>{ "subAccountId": "string" }</b></li> </ul> </li> <li>- Response: Success or failure message</li> </ul>	Send Invitation to Subaccount
<b>/accounts/{accountId}/invitations/{relationshipId}</b>	Accept/Decline Invitation

<ul style="list-style-type: none"> <li>- Method: <b>PATCH</b></li> <li>- Request Body: <ul style="list-style-type: none"> <li>- <b>{ "status": "ACCEPTED"   "DECLINED" }</b></li> </ul> </li> <li>- Response: Success or failure message</li> </ul>	
<p><b>/accounts/{businessOwnerId}/subAccounts/{subaccountId}</b></p> <ul style="list-style-type: none"> <li>- Method: <b>DELETE</b></li> <li>- Request Body: None</li> <li>- Response: Success or failure message</li> </ul>	Unlink Sub Account